# IATT CREEK WATERSHED TMDL
# FOR BIOCHEMICAL OXYGEN-DEMANDING SUBSTANCES

SUBSEGMENTS 101303

SURVEYED 8/13 - 15/2004

**TMDL REPORT**

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# EXECUTIVE SUMMARY

This report presents the results of a watershed based, calibrated modeling analysis of Iatt Creek. The modeling was conducted to establish a TMDL for biochemical oxygen-demanding pollutants for the Iatt Creek watershed. The model extends from the headwaters to Highway 122. Iatt Creek is located in north Louisiana and this subsegment includes Redland/Cow Creek and Cruie Creek as tributaries. Iatt Creek is in the Red River Basin and this study includes Water Quality Subsegment 101303. The area is sparsely populated and land use is dominated by forestry. There is one permitted discharger, Wynn Correctional Facility, located along this subsegment.

Input data for the calibration model was developed from data collected during the July 2004 intensive survey; data collected by LDEQ monitoring stations in the watershed; USGS drainage area and low flow publications; and data garnered from several previous LDEQ studies on nonpoint source loadings. The nonpoint source loads included nonpoint loading not associated with flow. A satisfactory calibration was achieved for the main stem. For the projection models, data was taken from ambient temperature records. The Louisiana Total Maximum Daily Load Technical Procedures, 09/22/2003, have been followed in this study.

The various spreadsheets that were used in conjunction with the modeling program may be found in the appendices in the order in which they were used. Water quality calibration was also based on measurements taken during the survey. Projections were adjusted to meet the dissolved oxygen criteria by reducing total nonpoint source loads.

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

Iatt Creek, Subsegment 101303, was on the 303(d) list starting with the 2004 list. Subsegment 101303 is found to be "not supporting" its designated use of Fish and Wildlife Propagation. It is "fully supporting" Primary and Secondary Contact Recreation, and Agriculture. Iatt Creek was subsequently scheduled for TMDL development with other listed waters in the Red River Basin. The suspected causes of impairment are dissolved oxygen and total dissolved solids. The suspected sources are natural conditions and small flow discharges.

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce the nutrient loading from those sources.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the non-point source load reductions which would be necessary in order for Iatt Creek, subsegment 101303 to comply with its established water quality standards and criteria. This report presents the results of that analysis.

The results of the projection modeling for subsegment 101303 show that the water quality standard for dissolved oxygen can be maintained during the summer critical season with a 60% reduction of nonpoint pollution. The minimum DO is 4.94 mg/l. Kisatchie Bayou was the reference stream used to calculate background conditions.

**Table 1. Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)**

| **ALLOCATION** | SUMMER | | WINTER | |
|---|---|---|---|---|
| | % Reduction Required | (MAR-NOV) (lbs/day) | % Reduction Required | (DEC-FEB) (lbs/day) |
| Point Source WLA | 0 | 84 | 0 | 84 |
| Point Source Reserve MOS (20%) | | 20 | | 20 |
| Natural Nonpoint Source LA | 60 | 553 | 60 | 622 |
| Natural Nonpoint Source Reserve MOS (20%) | | 82 | | 86 |
| Manmade Nonpoint Source LA | 60 | 2185 | 60 | 1563 |
| Manmade Nonpoint Source Reserve MOS (20%) | | 31 | | 42 |
| TMDL | | 2955 | | 2417 |

**Table 2. Point Source TMDL Summary 101303**

| **FACILITY** | **FILE_NUM** | **CURRENT EXPECTED FLOW, GPD** | **CURRENT PERMIT LIMITS** | **TMDL FLOW, GPD** | **MOS, GPD** | **TMDL PERMIT LIMITS** |
|---|---|---|---|---|---|---|
| Winn Correctional facility | LA 0107000 | 150000 | 10 mg/l $BOD_5$ | 150000 | 180000 | 10 mg/l $BOD_5$ |

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

The results of the projection modeling for subsegment 101303 show that the water quality standard for dissolved oxygen can be maintained during the winter critical season with the same 60% reduction of total nonpoint pollution. The minimum DO is 7.14 mg/l in subsegment 101303 and has a winter seasonal water quality standard for dissolved oxygen of 5.0 mg/l.

The high reduction in the total nonpoint loading, indicates that the current criterion for subsegment 101303 is inappropriate. A reassessment of the dissolved oxygen criteria for this subsegment is recommended. All summer and winter runs assumed a 5.0 dissolved oxygen standard.

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through the 319 programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

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

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

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# Introduction

Iatt Creek, subsegment 101303, of the Red River Basin is listed on the 2004 303(d) list. The subsegment is listed as not supporting fish and wildlife propagation. It is, however, meeting its designated use of Primary and Secondary Contact Recreation and Agriculture. The suspected causes of impairment are low DO and total dissolved solids. The suspected sources are natural conditions and small flow discharges. Because of the impairment, this subsegment requires the development of a total maximum daily load (TMDL) for oxygen demand substances and nutrients. A calibrated water quality model for the Iatt Creek, subsegment 101303 watershed was developed and projections for current dissolved oxygen standards were run to quantify the wasteload required to meet established dissolved oxygen criteria. This report presents the model development and results.

# 2. Study Area Description

## 2.1 General Information

Red River Basin

The Red River has its origin in eastern New Mexico and flows across portions of Texas, Oklahoma and Arkansas before entering northwestern Louisiana. The river flows south to Shreveport, where it turns southeast and flows for approximately 160 miles to its junction with the Atchafalaya River. From the Arkansas state line to Alexandria, the Red River is contained within high banks which range from 20 to 35 feet above low water level. Below Alexandria, the river flows through a flat alluvial plain which is subject to backwater flooding during periods of high water. The Sabine River Basin lies to the southwest of the Red River Basin, and the Ouachita River Basin lies to the east. The Calcasieu, Vermilion – Teche, and Atchafalaya River Basins lie south of the Red River Basin. The Red River drains approximately 7,760 squares miles within Louisiana.

Subsegment 101303 includes Iatt Creek from the headwaters to highway 122. This area is typical of the basin and is primarily comprised of forestry as documented in Table 3 (LADEQ, 1999). A detailed land cover map of Subsegment 101303 is also included in Appendix H2. Average annual precipitation in the segment, based on the nearest Louisiana Climatic Station, is 56-60 inches based on a 30-year period of record (LSU, 1999). There is a Louisiana average annual precipitation map located in Appendix H3.

**Table 3. Land Uses in Segment 101303**

| Land Type | Acres 101303 | Percent Land use 101303 |
|---|---|---|
| Upland Forest Evergreen | 33,699.51 | 30.89 |
| Upland S/S Mixed | 18,045.99 | 16.54 |
| Upland Forest Mixed | 16619.58 | 15.23 |
| Dense Pine Thicket | 12533.74 | 11.49 |
| Wetland Forest Deciduous | 7608.79 | 6.97 |
| Upland S/S Evergreen | 6509.50 | 5.97 |
| Upland Forest Deciduous | 3803.62 | 3.49 |
| Water | 2922.71 | 2.68 |
| Wetland Forest Mixed | 2836.64 | 2.60 |
| Agriculture/Cropland/Grassland | 2568.44 | 2.35 |
| Upland S/S Deciduous | 1782.49 | 1.63 |
| Non-Vegetated Urban | 55.6 | 0.05 |
| Upland Barren | 52.93 | 0.05 |
| Wetland S/S Deciduous | 48.93 | 0.04 |

**Figure 1. Model Layout**

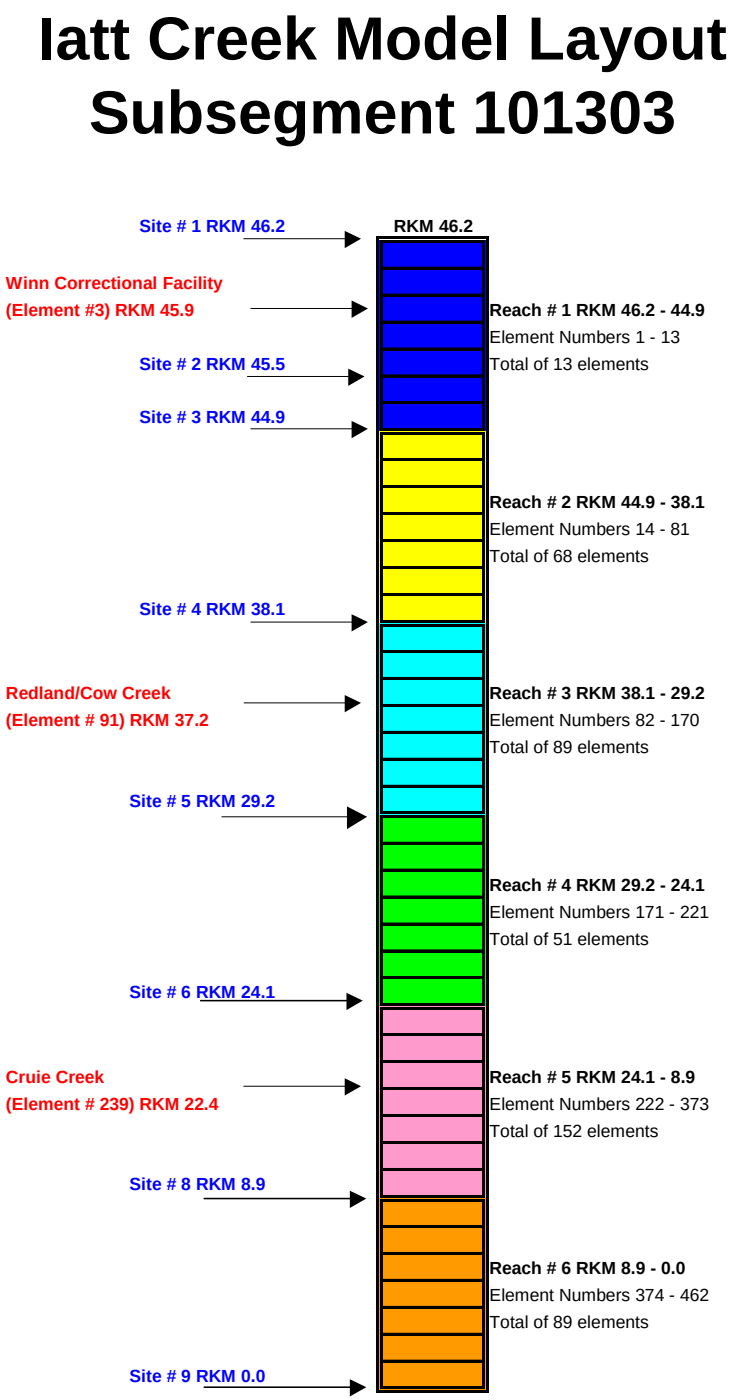
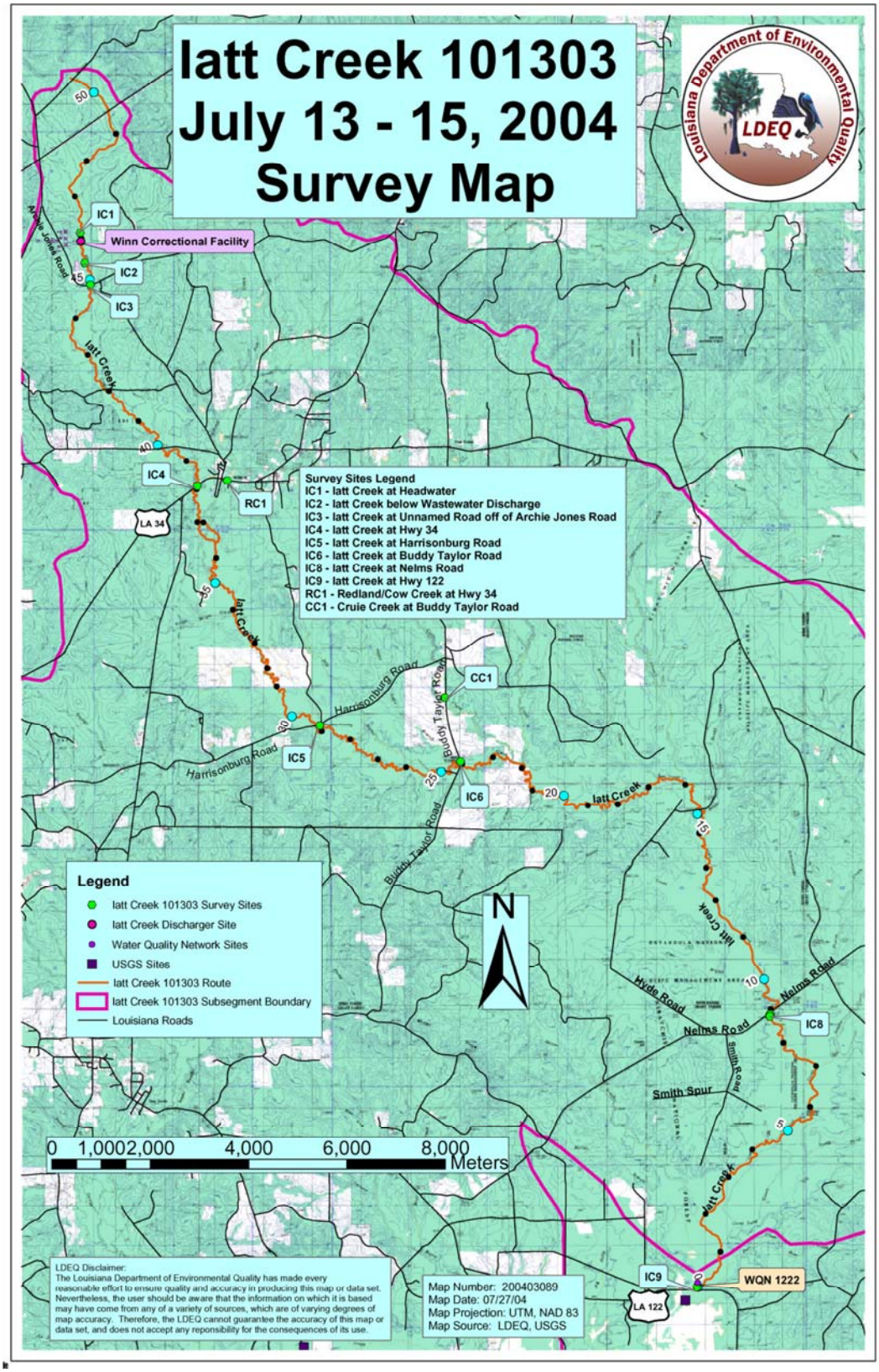


**Figure 2. Map of Study Area**



## 2.2 Water Quality Standards

The Water Quality criteria and designated uses for Iatt Creek Watershed are shown in Table 4. As noted in the table, Iatt Creek, Subsegment 101303 has a year round dissolved oxygen standard of 5.0 mg/L.

**Table 4. Water Quality Numerical Criteria and Designated Uses**

| Parameter | Value |
|---|---|
| Designated Uses | A B C F |
| DO, mg/L | 5.0 |
| Cl, mg/L | 25 |
| $SO_4$, mg/L | 25 |
| pH | 6.0 – 8.5 |
| BAC | See Note 1 below |
| Temperature, deg Celsius | 32 |
| TDS, mg/L | 100 |

USES: A – primary contact recreation; B - secondary contact recreation; C – propagation of fish and wildlife; D – drinking water supply; E – oyster propagation; F – agriculture; G – outstanding natural resource water; L – limited aquatic life and wildlife use.

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

## 2.3 Wastewater Discharges

The only permitted sanitary wastewater discharger located in this subsegment is the Winn Correctional Center. The design capacity of this discharger is 0.15 MGD. The receiving water path is by effluent pipe into an unnamed ditch; thence into Iatt Creek; thence into Iatt Lake. The current limits for this facility are: BOD5 of 10 mg/L, TSS of 15 mg/L, Fecal Coliform, Colonies/ 100mL of 200 monthly average and 400 weekly average. A 20% reserve is included in the TMDL for future wasteload allocation.

## 2.4 Water Quality Conditions/Assessment

Iatt Creek, subsegment 101303, of the Red River Basin is listed on the 2004 303(d) list. This subsegment is listed as not supporting fish and wildlife propagation. It is, however, meeting its designated use of Primary and Secondary Contact Recreation, and Agriculture. The suspected causes of impairment in subsegment 101303 are DO and total dissolved solids. The suspected sources for 101303 are natural conditions and small flows discharges. Because of the impairment, this subsegment requires the development of a total maximum daily load (TMDL) for oxygen demanding substances.

## 2.5 Prior Studies

LDEQ had a monthly water quality sampling station on Iatt Creek. LDEQ Water Quality Site 1222 has a period of record from January 2002 to December 2002. Data collected during the Eularian survey conducted in July 2004, included discharge data, cross-section data, field in-situ data, continuous monitor data, and lab water quality data. This data was used to establish the input for the model calibration and is presented in Appendix F.

# 3. Documentation Calibration Model

## 3.1 Program Description

"Simulation models are used extensively in water quality planning and pollution control. Models are applied to answer a variety of questions, support watershed planning and analysis and develop total maximum daily loads (TMDLs). . . . Receiving water models simulate the movement and transformation of pollutants through lakes, streams, rivers, estuaries, or near shore ocean areas. . . . Receiving water models are used to examine the interactions between loadings and response, evaluate loading capacities (LCs), and test various loading scenarios. . . . A fundamental concept for the analysis of receiving waterbody response to point and nonpoint source inputs is the principle of mass balance (or continuity). Receiving water models typically develop a mass balance for one or more constituents, taking into account three factors: transport through the system, reactions within the system, and inputs into the system." (EPA841-b-97-006, pp. 1-30)

The model used for this TMDL was LA-QUAL, a steady-state one-dimensional water quality model. LA-QUAL history dates back to the QUAL-I model developed by the Texas Water Development Board with Frank D. Masch & Associates in 1970 and 1971. William A. White wrote a original code.

In June, 1972, the United States Environmental Protection Agency awarded Water Resources Engineers, Inc. (now Camp Dresser & McKee) a contract to modify QUAL-I for application to the Chattahoochee-Flint River, the Upper Mississippi River, the Iowa-Cedar River, and the Santee River. The modified version of QUAL-I was known as QUAL-II.

Over the next three years, several versions of the model evolved in response to specific client needs. In March, 1976, the Southeast Michigan Council of Governments (SEMCOG) contracted with Water Resources Engineers, Inc. to make further modifications and to combine the best features of the existing versions of QUAL-II into a single model. That became known as the QUAL-II/ SEMCOG version.

Between 1978 and 1984, Bruce L. Wiland with the Texas Department of Water Resources modified QUAL-II for application to the Houston Ship Channel estuarine system. Numerous modifications were made to enable modeling this very large and complex system including the addition of tidal dispersion, lower boundary conditions, nitrification inhibition, sensitivity analysis capability, branching tributaries, and various input/output changes. This model became known as QUAL-TX and was subsequently applied to streams throughout the State of Texas.

In 1999, the Louisiana Department of Environmental Quality and Wiland Consulting, Inc. developed LA-QUAL based on QUAL-TX Version 3.4. The program was converted from a DOS-based program

to a Windows-based program with a graphical interface and enhanced graphic output. Other program modifications specific to the needs of Louisiana and the Louisiana DEQ were also made. LA-QUAL is a user-oriented model and is intended to provide the basis for evaluating total maximum daily loads in the State of Louisiana.

The development of a TMDL for dissolved oxygen generally occurs in 3 stages. Stage 1 encompasses the data collection activities. These activities may include gathering such information as stream cross-sections, stream flow, stream water chemistry, stream temperature and dissolved oxygen and various locations on the stream, location of the stream centerline and the boundaries of the watershed which drains into the stream, and other physical and chemical factors which are associated with the stream. Additional data gathering activities include gathering all available information on each facility which discharges pollutants in to the stream, gathering all available stream water quality chemistry and flow data from other agencies and groups, gathering population statistics for the watershed to assist in developing projections of future loadings to the water body, land use and crop rotation data where available, and any other information which may have some bearing on the quality of the waters within the watershed. During Stage 1, any data available from reference or least impacted streams which can be used to gauge the relative health of the watershed is also collected.

Stage 2 involves organizing all of this data into one or more useable forms from which the input data required by the model can be obtained or derived. Water quality samples, field measurements, and historical data must be analyzed and statistically evaluated in order to determine a set of conditions which have actually been measured in the watershed. The findings are then input to the model. Best professional judgment is used to determine initial estimates for parameters which were not or could not be measured in the field. These estimated variables are adjusted in sequential runs of the model until the model reproduces the field conditions which were measured. In other words, the model produces a value of dissolved oxygen, temperature, or other parameter which matches the measured value within an acceptable margin of error at the locations along the stream where the measurements were actually made. When this happens, the model is said to be calibrated to the actual stream conditions. At this point, the model should confirm that there is an impairment and give some indications of the causes of the impairment. If a second set of measurements is available for slightly different conditions, the calibrated model is run with these conditions to see of the calibration holds for both sets of data. When this happens, the model is said to be verified.

Stage 3 covers the projection modeling which results in the TMDL. The critical conditions of flow and temperature are determined for the waterbody and the maximum pollutant discharge conditions from the point sources are determined. These conditions are then substituted into the model along with any related condition changes which are required to perform worst case scenario predictions. At this point, the loadings from the point and nonpoint sources (increased by an acceptable margin of safety) are run at various levels and distributions until the model output shows that dissolved oxygen criteria are achieved. It is critical that a balanced distribution of the point and nonpoint source loads be made in order to predict any success in future achievement of water quality standards. At the end of Stage 3, a TMDL is produced which shows the point source permit limits and the amount of reduction in man-made nonpoint source pollution which must be achieved to attain water quality standards. The man-made portion of the NPS pollution is estimated from the difference between the calibration loads and the loads observed on reference or least impacted streams.

## 3.2 Input Data Documentation

Data collected during an intensive survey conducted from July 13-15, 2004, was used to establish the input for the model calibration. It is presented in Appendix F. The flows in each reach and headwater were based on the measured survey discharges.

Field and laboratory water quality data were entered in a spreadsheet for ease of analysis. The total CBOD curve presented in Appendix F5 is the first order equation, which was derived using the Microsoft Excel Solver and was based on the measured daily CBOD values. NBOD simulated organic nitrogen, ammonia nitrogen, and nitrate/nitrite nitrogen. The Louisiana BOD program was applied to the BOD data in a separate spreadsheet and values were computed for each sample taken of ultimate CBOD, CBOD decay rate, CBOD lag time as well as the NBOD, NBOD decay rate, and NBOD lag time. The survey data was the primary source of the model input data for initial conditions, decay rates, mainstem water temperature, dissolved oxygen loading, headwater temperature, and DO data.

### 3.2.1 Model Schematics and Maps

A vector diagram of the modeled area is presented in Figure 1 and Appendix C1. The vector diagram shows the locations of survey stations, the reach/element design, and the locations of the tributaries contributing flow but not modeled. An ARCVIEW map of the stream and subsegment showing river kilometers, survey stations, subsegment boundary and other points of interest are also included in Figure 2 and Appendix H1.

### 3.2.2 Model Options, Data Type 2

Five constituents were modeled during the calibration process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, nitrogenous biochemical oxygen demand, chloride, and conductivity. The continuous monitors did show small diurnal swings indicative of algal activity. The algae cycle was not modeled; however, the measured chlorophyll A values were included in the initial conditions. This allowed the model to simulate the oxygen production associated with algae without modeling the entire algal cycle. A review of the data showed that field conductivity was probably more reliable as a conservative constituent for this watershed.

### 3.2.3 Temperature Correction of Kinetics, Data Type 4

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

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

Where:

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

In the absence of specified values for data type 4, the model uses default values. A complete listing of these values can be found in the LA-QUAL for Windows User's Manual (LDEQ, 2004). For this model all values used were LAQUAL default values.

### 3.2.4 Reach Identification Data, Data Type 8

A diagram of the modeled area is presented in Appendix C1. The vector diagram shows the reach/element design and the location of the Winn Correctional Facility, Redland/Cow Creek, and Cruie Creek. The modeled area is characterized by 8 sample sites. The model starts with Iatt Creek's headwater and extends to highway 122. This calibrated model includes 6 reaches, 462 elements, one headwater, and two tributaries. A digitized map of the stream showing river kilometers, and the July 2004 survey sampling sites are included in Figure 2 and Appendix H1.

### 3.2.5 Advective Hydraulic Coefficients, Data Type 9

Rather than directly inputting the widths and depths of the stream, the model requires that the advective hydraulic characteristics (a modification of the Leopold Coefficients and Exponents) be entered. For Iatt Creek the coefficients and exponents were generated from calibration.

### 3.2.6 Initial Conditions, Data Type 11

The initial conditions are used to reduce the number of iterations required by the model. The values required for this model were temperature and DO by reach. The input values came from averages of the survey stations located closest to the reach. Chlorophyll a values were also used since the mild effects of algae on the dissolved oxygen concentrations were also simulated with this model. Since the initial conditions are only a starting point for the model, all values were set to the calibration values. The input data and sources are shown in Appendix B1.

### 3.2.7 Reaeration Rates, Data Type 12

The applicability of the various equations was examined. The review showed that the Texas Equation was most applicable to Iatt Creek. The input data and sources are shown in Appendix B2.

### 3.2.8 Sediment Oxygen Demand, Data Type 12

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

### 3.2.9 Carbonaceous BOD Decay and Settling Rates, Data Type 12

The decay rates used were based on the bottle rates from the survey. Review of the measured CBOD daily values revealed one distinct CBOD component, which had varying decay rates and lag times. The CBOD component had decay rates ranging from 0.03 to 0.09 per day. The CBOD curve presented in Appendix F5 is the first order equation, which was derived using the Microsoft Excel Solver and

was based on the measured daily CBOD values. The decay and settling rates used for each reach are shown in Appendix F5.

### 3.2.10 Nitrogenous BOD Decay and Settling Rates, Data Type 15

These rates are labeled NBOD Decay and Settling in the model. The decay rates used were based on the bottle rates from the survey. NBOD decay rates were fairly consistent with main stem rates ranging from 0.04 to 0.11. The decay and settling rates used for each reach are shown in Appendix F5.

### 3.2.11 Incremental Conditions, Data Types 16, 17, and 18

The incremental conditions were used in the calibration to represent nonpoint source loads associated with flows. It was determined from the flow measurements along the mainstem and an evaluation of the water chemistry that groundwater inflow could be assumed. The data and its source for each reach are presented in Appendix B2.

### 3.2.12 Nonpoint Sources, Data Type 19

Nonpoint source loads which are not associated with a flow are input into this part of the model. These can be most easily understood as resuspended load from the bottom sediments and are modeled as SOD, CBOD, and NBOD loads. The data and sources are presented in Appendix B2.

### 3.2.13 Headwaters, Data Types 20, 21, and 22

The headwater flow was determined from the measurements obtained during the July 2004 survey. The hydrology used for the headwater was from Site IC1. The data and sources are presented in Appendix B2.

### 3.2.14 Wasteloads, Data Types 23, 24, and 25

A facility review was performed on the subsegment and the only permitted discharger found was the Winn Correctional Facility for subsegment 101303. IC2 was taken just below the discharger and was used as the wasteload information in the calibration. Only Redland/Cow Creek and Cruie Creek were found to be flowing during the water quality survey and were added to the calibration.

### 3.2.15 Boundary Conditions, Data Type 27

The lower boundary conditions were assumed to be equivalent to the measurements taken at survey station IC9 (Iatt Creek at Hwy 122).

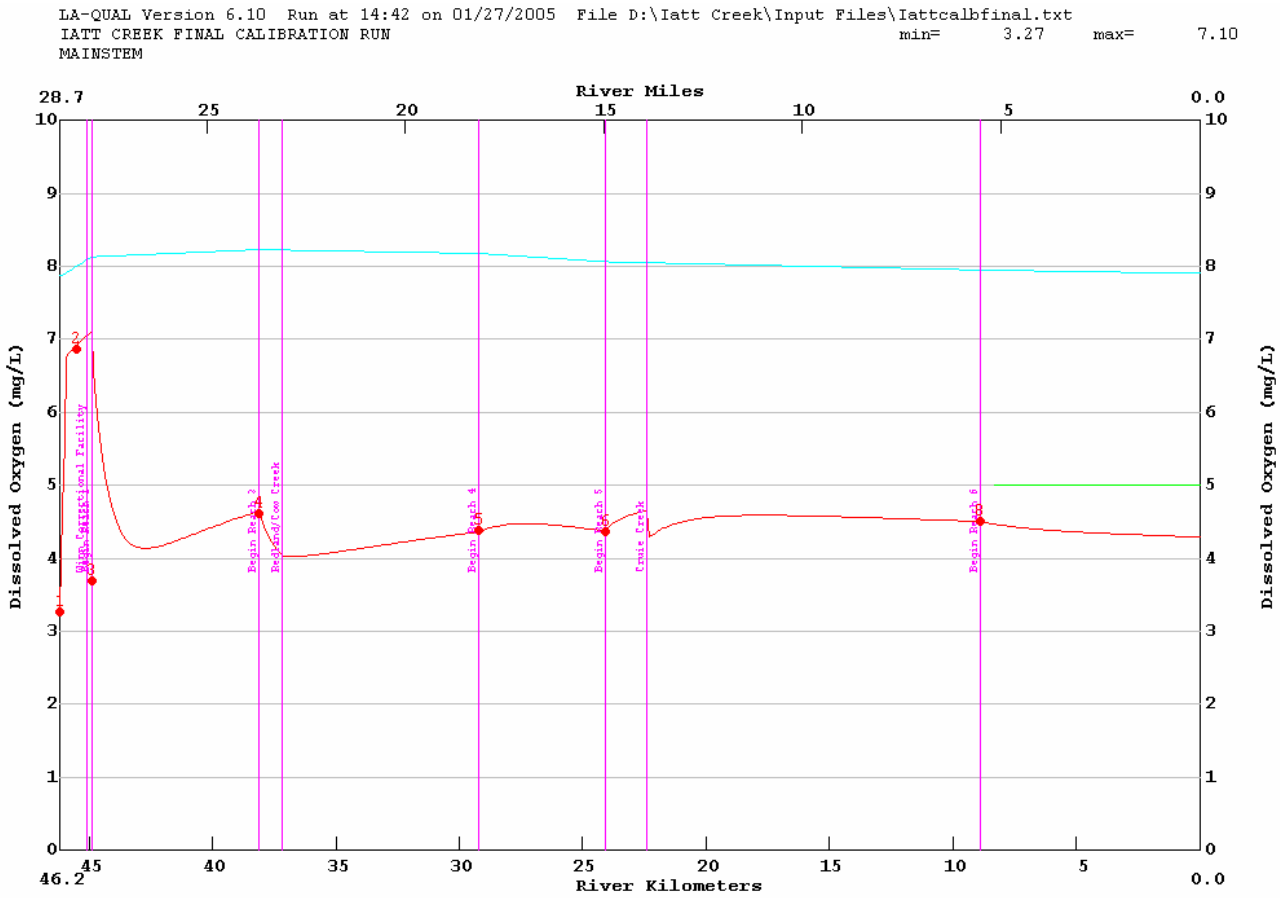
## 3.3 Model Discussion and Results

The calibration model input and output is presented in Appendix B. The overlay plotting option was used to determine if calibration had been achieved. A plot of the dissolved oxygen concentration versus river kilometer is presented in Figure 3. The sites chosen for each reach were a representative cross section of that reach. The coefficients and exponents were determined through calibration for this model.

The calibration points for dissolved oxygen and temperature were based on survey site measurements. The calibration points for CBOD and NBOD were the measured values from the water quality samples.

An adequate calibration was achieved for DO, UCBOD, and NBOD on the main stem. The calibration model shows that during July 2004 survey period, the DO standard of 5 mg/l was not being met in subsegment 101303 in most of the modeled reaches. The calibration model minimum DO on the main stem was 3.27 mg/l.

**Figure 3. Calibration Model Dissolved Oxygen versus River Kilometer**




- numbered points indicate survey stations
- vertical lines indicate beginning of reach
- the green horizontal line indicates the DO Criterion
- upper plotted blue line indicates DO saturation
- lower plotted red line indicates calibration model output

# 4. Water Quality Projections

The traditional summer critical projection loading scenario was performed at the current annual DO standard. This scenario was based on reduced total nonpoint loads at summer season critical conditions (ie. 90$^{th}$ percentile seasonal temperatures and 7Q10 flows) in accordance with the LTP. A winter projection was run based on the percent reduction of total nonpoint loads used for summer critical projections.

## 4.1 Critical Conditions, Seasonality and Margin of Safety

The Clean Water Act requires the consideration of seasonal variation of conditions affecting the constituent of concern, and the inclusion of a margin of safety (MOS) in the development of a TMDL. For the Iatt Creek, subsegment 101303 TMDL, an analysis of LDEQ ambient data has been employed to determine critical seasonal conditions and an appropriate margin of safety.

Critical conditions for dissolved oxygen were determined for Iatt Creek using short term water quality data from Iatt Creek water quality site number 1222 on the LDEQ Ambient Monitoring Network. The 90$^{th}$ percentile temperature for each season and the corresponding 90% of saturation DO was determined. Ambient temperature data, critical temperature and DO saturation determinations are shown in Appendix G1.

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

When the rainfall run-off (and non-point loading) and stream flow are high, turbulence is higher due to the higher flow and the temperature is lowered by the run-off. In addition, run-off coefficients are higher in cooler weather due to reduced evaporation and evapotranspiration, so that the high flow periods of the year tend to be the cooler periods. Reaeration rates and DO saturation are, of course, much higher when water temperatures are cooler, but BOD decay rates are much lower. For these reasons, periods of high loading are periods of higher reaeration and dissolved oxygen but not necessarily periods of high BOD decay.

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

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

Critical season conditions were simulated in the Iatt Creek, subsegment 101303 dissolved oxygen TMDL projection modeling by using the 7Q10 flow and the 90$^{th}$ percentile temperature. Since groundwater inflow was present during this survey, it is assumed to be present during both summer and winter conditions. The USGS calculated 7Q10 for Iatt Creek near Faircloth of 6.3 cfs = 0.1954 cms was used for the headwater during both summer and winter conditions. In accordance with the LTP, a summer 7Q10 of 0.1 cfs = 0.00283 cms and a winter 7Q10 of 1.0 cfs = 0.0283 cms for Redland/Cow Creek and Cruie Creek was assumed.

In reality, the highest temperatures occur in July-August, the lowest stream flows occur in October-November, and the maximum point source discharge occurs following a significant rainfall, i.e., high-flow conditions. The summer projection model is established as if all these conditions happened at the same time. The winter projection model accounts for the seasonal differences in flows and BMP efficiencies. Other conservative assumptions regarding rates and loadings are also made during the modeling process. In addition to the conservative measures, an explicit MOS of 20% was used for all loads to account for future growth, safety, model uncertainty and data inadequacies.

## 4.2 Input Data Documentation

The USGS calculated 7Q10 for Iatt Creek near Faircloth of 6.3 cfs = 0.1954 cms was used for the headwater during both summer and winter conditions. The flow in Redland/Cow Creek, and Cruie Creek was set to 0.1cfs in the summer and 1.0 cfs for winter critical conditions in accordance with the LTP.

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

### 4.2.1 Model Options, Data Type 2

Five constituents were modeled during the projection process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, nitrogenous biochemical oxygen demand, chlorides, and conductivity.

### 4.2.2 Temperature Correction of Kinetics, Data Type 4

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

### 4.2.3 Reach Identification Data, Data Type 8

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

### 4.2.4 Advective Hydraulic Coefficients, Data Type 9

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

### 4.2.5 Initial Conditions, Data Type 11

The initial conditions were set to the 90$^{th}$ percentile critical season temperature in accordance with the LTP. The dissolved oxygen values for the initial conditions were set at the stream criteria.

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

The reaeration rate equations, CBOD decay and settling rates, NBOD decay and settling rates, and the fractions converting settled CBOD and settled NBOD to SOD were not changed from the calibration.

### 4.2.7 Incremental Conditions, Data Types 16, 17, and 18

The incremental conditions were used in the calibration to represent nonpoint source loads associated with flows. Since incremental flow was determined to be groundwater inflow, the incremental flows were assumed to be present during projections and were included. The temperature was set to the 90$^{th}$ percentile temperature for WQN site 1222. The DO was set to 2.0 which is an acceptable value for groundwater inflow.

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

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

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

LDEQ simulates part of the non-point source oxygen demand loading as resuspended benthic load and SOD. The calibrated non-point loads, UCBOD, UNBOD and SOD, are summed to produce the total calibrated benthic load. The total calibrated benthic load is then reduced by the total background benthic load (determined from LDEQ's reference stream research) to determine the total manmade benthic loading. The manmade portion is then reduced incrementally on a percentage basis to determine the necessary percentage reduction of manmade loading required to meet the water body's

dissolved oxygen criteria. These reductions are applied uniformly to all reaches sharing similar hydrology and land uses.

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

LDEQ has found variations in the breakdown of the individual CBOD and NBOD components. While the total BOD is reliable, the carbonaceous and nitrogenous component allocation is subject to the type of test method. In the past, LDEQ used a method which suppressed the nitrogenous component to obtain the carbonaceous component value, which was then subtracted from the total measured BOD to determine the nitrogenous value. The suppressant in this method was only reliable for twenty days thus leading to the assumption that the majority of the carbonaceous loading was depleted within that period of time. The test results supported this assumption. Recently the suppressant started failing around day seven and the manufacturer of the suppressant will only guarantee it's potency for a five day period. LDEQ felt a five day test would not adequately depict the water quality of streams and began a search for a new test method. The research found a new proposed method for testing long term BODs in Standard Methods.

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

LDEQ has implemented the new test method. The results obtained using the new method showed that a portion of the CBOD first order equation does begin to level off prior to the twentieth day, however a secondary CBOD component begins to use dissolved oxygen sometime between day ten and day twenty-five. This secondary CBOD component was not being assessed as CBOD using the previous method but was being included in the NBOD load. Thus the CBOD and NBOD component loading used in the reference stream studies is not consistent with the results using the new proposed 60 day method and the individual values should not be used to determine background values for samples processed using the new test methods. However, the sum of CBOD and NBOD should be about the same for both new and old test methods. For this reason LDEQ decided to use the sum of reference stream benthic loads as background values.

The resuspended total nonpoint CBOD and NBOD loading was reduced by 60% for all reaches in the summer critical projection scenario to meet the summer water quality criterion for dissolved oxygen. Since LDEQ assumes these benthic loads are long-term loads brought to the stream by various sources throughout the year, the same percentage reductions were made in the winter projection model as were in the summer critical projection model. These reductions met the summer dissolved oxygen criteria and well surpassed requirements in the winter projection.

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

#### 4.2.12 Boundary Conditions, Data Type 27

The lower boundary conditions were set at the 90$^{th}$ percentile critical season temperature, the dissolved oxygen criteria was set to the DO criteria for Iatt Creek, and the measured stream UCBOD and UNBOD loads for all projections and scenarios.

### 4.3 Model Discussion and Results

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

#### 4.3.1 No Load Scenario

Three no load scenarios were run. Under the no nonpoint/ no point source scenario, the SOD, NPS, headwater and wasteload values were reduced to reference stream values except where the calibration value was less than the reference stream value and the point source wasteload was removed. The minimum DO is 5.50 mg/l.

Under the no point source scenario, the SOD, NPS, headwater, and wasteload values were held to calibration values and the point source wasteload was removed. The minimum DO is 4.97.

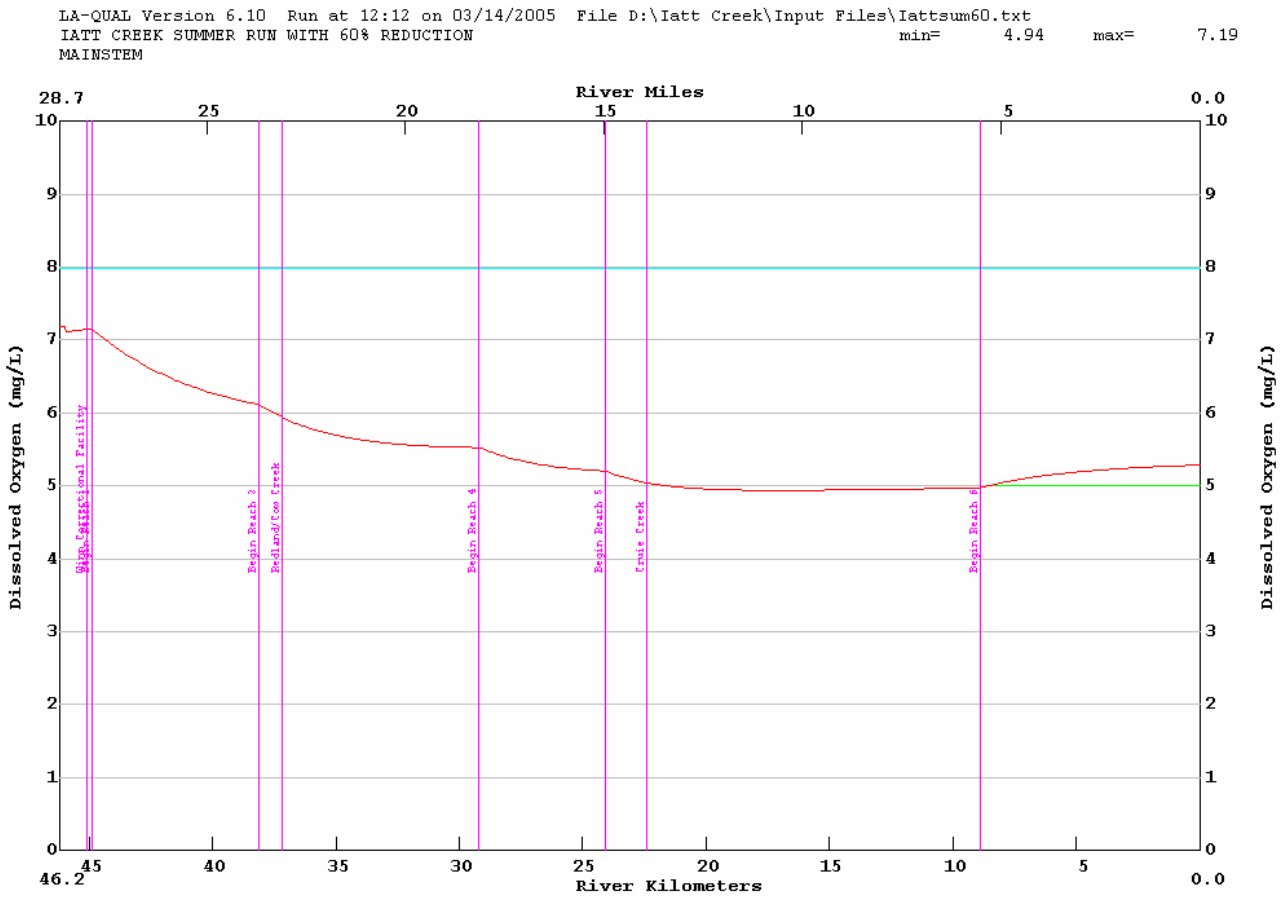
Under the no nonpoint scenario, the SOD, NPS, and headwater values were reduced to reference stream values except where the calibration value was less than the reference stream value and the point source wasteload at the current permit limits was included. The minimum DO is 5.49.

Evaluating the three runs conclusively reveals that the point source discharger does not negatively impact the stream. In fact, the discharger flow positively enhances the stream. Therefore, the permit limits will remain the same.

#### 4.3.2 Summer Projection

Summer critical season projections were run for the current standard of 5.0 mg/L May – November. In order to meet the standard, a 60% reduction of total nonpoint sources is necessary. With these percentage reductions in the benthic oxygen loads, Iatt Creek meets the dissolved oxygen criterion. The minimum DO on the main stem is 4.94 mg/L. A graph of the dissolved oxygen concentration versus river kilometer for the summer projection is presented in Figure 4.

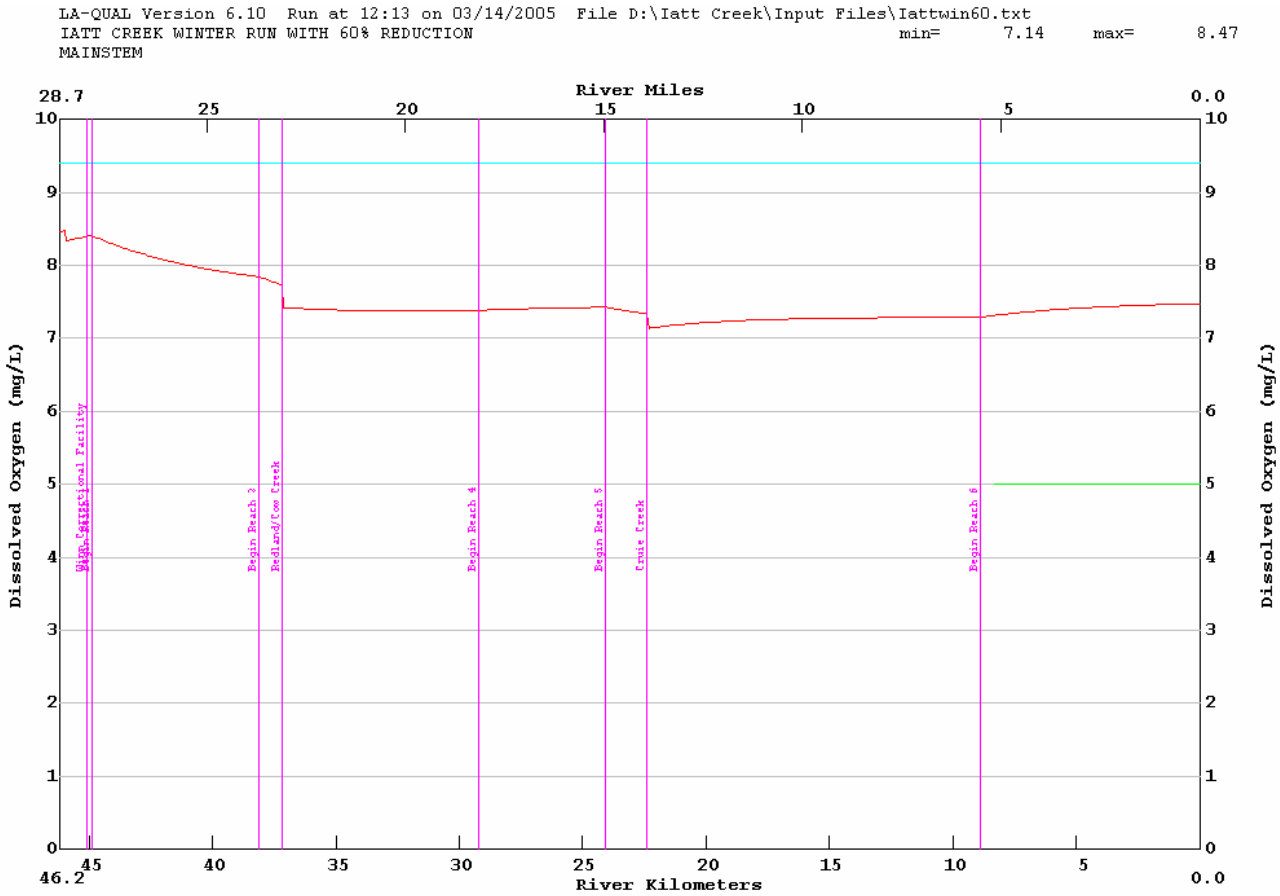
**Figure 4. Summer Projection at 60% Removal of Man-Made NPS Loads**




### 4.3.3 Winter Projection

The results of the model show that the water quality criterion for dissolved oxygen of Iatt Creek of 5.0 mg/l can be maintained during the winter critical season. The minimum dissolved oxygen is 7.14 mg/l. This is acceptable. To achieve the criterion, the model assumed a 60% reduction from all manmade nonpoint sources. A graph of the dissolved oxygen concentration versus river kilometer for the winter projection is presented in Figure 5.

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




## 4.4 Calculated TMDL, WLAs and Las

### 4.4.1 Outline of TMDL Calculations

An outline of the TMDL calculations is provided to assist in understanding the calculations in the Appendices. Slight variances may occur based on individual cases.

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

4.4.1.2 The calibration man-made benthic loading was determined as follows:

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

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

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

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

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

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

4.4.1.4 The total stream loading capacity at critical water temperature is calculated as the sum of:

- Headwater and tributary CBOD and NBOD loading in lb/d and kg/d.

- The natural and man-made projection benthic loading for all reaches of the stream is converted to the loading at critical temperature and summed in lb/d and kg/d.

- Point source CBOD and NBOD loading in lb/d and kg/d.

- The margin of safety in lb/d and kg/d.

### 4.4.2 Iatt Creek, Subsegment 101303 TMDL

The TMDLs for the biochemical oxygen demanding constituents (CBOD, NBOD, and SOD), have been calculated for the summer and winter critical seasons. The TMDLs for the Iatt Creek, Subsegment 101303 watershed were set equal to the total stream loading capacity. They are presented in Appendix A. A summary of the loads is presented in Table 5.

**Table 5. Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)**

| ALLOCATION | SUMMER | | WINTER | |
|---|---|---|---|---|
| | % Reduction Required | (MAR-NOV) (lbs/day) | % Reduction Required | (DEC-FEB) (lbs/day) |
| Point Source WLA | 0 | 84 | 0 | 84 |
| Point Source Reserve MOS | | 20 | | 20 |
| Natural Nonpoint Source LA | 60 | 553 | 60 | 622 |
| Natural Nonpoint Source Reserve MOS | | 82 | | 86 |
| Manmade Nonpoint Source LA | 60 | 2185 | 60 | 1563 |
| Manmade Nonpoint Source Reserve MOS | | 31 | | 42 |
| TMDL | | 2955 | | 2417 |

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

**Table 6. Point Source TMDL Summary 030701**

| FACILITY | FILE_NUM | CURRENT EXPECTED FLOW, GPD | CURRENT PERMIT LIMITS | TMDL FLOW, GPD | MOS, GPD | TMDL PERMIT LIMITS |
|---|---|---|---|---|---|---|
| Winn Correctional facility | LA 0107000 | 150000 | 10 mg/l $BOD_5$ | 150000 | 180000 | 10 mg/l $BOD_5$ |

## 5. Sensitivity Analysis

All modeling studies necessarily involve uncertainty and some degree of approximation. It is therefore of value to consider the sensitivity of the model output to changes in model coefficients, and in the hypothesized relationships among the parameters of the model. The LAQUAL model allows multiple parameters to be varied with a single run. The model adjusts each parameter up or down by the percentage given in the input set. The rest of the parameters listed in the sensitivity section are held at their original projection value. Thus the sensitivity of each parameter is reviewed separately. A sensitivity analysis was performed on the projection rather than the calibration. The projection was used to present a more robust analysis. For the calibration, the flow from the discharger dominated the headwater flow. The close proximity of the discharger to the headwater and the fact that the discharger was considerably larger than the headwater, inhibits the model from making a proper analysis. The sensitivity of the model's minimum DO projections to these parameters is presented in Appendix I2. Parameters were varied by +/- 30%, except temperature, which was adjusted +/- 2 degrees Centigrade.

Sensitivity Values are reported in Table 7. As shown in Table 7, stream reaeration, initial temperature, and SOD are the parameters to which DO is most sensitive. The model is moderately sensitive to

velocity, headwater flow, baseflow, headwater BOD, depth, and incremental flow. The model is slightly sensitive to insensitive to the remaining parameters.

**Table 7. Summary of Calibration Model Sensitivity Analysis**

| | Positive Changes in Parameter | | | Negative Changes in parameter | | |
|---|---|---|---|---|---|---|
| **Parameter** | % change | Minimum DO (mg/l) | Percentage Difference | % change | Minimum DO (mg/l) | Percentage Difference |
| Stream Baseflow | 30 | 5.13 | 3.9 | -30 | 4.69 | -5.0 |
| Initial Chlorophyll a | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Stream Velocity | 30 | 5.06 | 2.4 | -30 | 4.80 | -2.7 |
| Initial Temperature | 2 | 4.42 | -10.5 | -2 | 5.45 | 10.4 |
| BOD Decay Rate | 30 | 4.8 | -2.8 | -30 | 5.09 | 3.1 |
| BOD Settling Rate | 30 | 4.98 | 0.9 | -30 | 4.89 | -1.0 |
| NBOD Decay Rate | 30 | 4.91 | -0.6 | -30 | 4.97 | 0.7 |
| NBOD Settling Rate | 30 | 4.95 | 0.3 | -30 | 4.92 | -0.4 |
| Benthal Demand | 30 | 4.26 | -13.8 | -30 | 5.62 | 13.8 |
| Stream Dispersion | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Stream Reaeration | 30 | 5.63 | 14.0 | -30 | 3.67 | -25.7 |
| Headwater Flow | 30 | 5.06 | 2.5 | -30 | 4.78 | -3.2 |
| Headwater DO | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Headwater BOD | 30 | 4.82 | -2.4 | -30 | 5.05 | 2.3 |
| Headwater NBOD | 30 | 4.93 | -0.1 | -30 | 4.95 | 0.1 |
| Stream Depth | 30 | 4.70 | -4.8 | -30 | 5.23 | 5.9 |
| Incremental Inflow | 30 | 5.02 | 1.7 | -30 | 4.85 | -1.9 |
| Incremental Outflow | 30 | 4.93 | -0.1 | -30 | 4.94 | 0.1 |
| Incremental Temperature | 2 | 4.94 | 0 | -30 | 4.94 | 0 |
| Incremental DO | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Incremental BOD | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Incremental NBOD | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Wasteload Flow | 30 | 4.93 | -0.1 | -30 | 4.94 | 0.1 |
| Wasteload Temperature | 2 | 4.94 | 0 | -2 | 4.94 | 0 |
| Wasteload DO | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Wasteload BOD | 30 | 4.93 | -0.2 | -30 | 4.95 | 0.2 |
| Wasteload NBOD | 30 | 4.92 | -0.3 | -30 | 4.95 | 0.3 |
| Lower Boundary Temperature | 2 | 4.94 | 0 | -2 | 4.94 | 0 |
| Lower Boundary DO | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Lower Boundary BOD | 30 | 4.94 | 0 | -30 | 4.94 | 0 |
| Lower Boundary NBOD | 30 | 4.94 | 0 | -30 | 4.94 | 0 |

## 6. Conclusions

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion

is supported, nutrients are also controlled and limited. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce the nutrient loading from those sources.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the non-point source load reductions which would be necessary in order for Iatt Creek, subsegment 101303 to comply with its established water quality standards and criteria. This report presents the results of that analysis.

The modeling, which has been conducted for this TMDL, is conservative and based on limited information. The TMDL requires a watershed-wide 60% decrease in nonpoint source loads in order to meet the DO criterion of 5.0 mg/L in the summer critical season.

LDEQ has developed this TMDL to be consistent with the state antidegradation policy (LAC 33:IX.1109.A).

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through the 319 programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

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

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

## 7. References

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## 8. Appendices

# Appendix A - Detailed TMDL Analysis

# Appendix A1 – Summer TMDL Summary

## Summer TMDL Summary:

**Iatt Creek 101303**

| Calculation of the TMDL - Kilograms per day | | | |
|---|---|---|---|
| Load description | WLA (kg/day) | LA (kg/day) | MOS Load (kg/day) |
| Point Source loads | 38 | | 9 |
| Headwater / Tributatary loads | | 251 | 37 |
| Benthic loads | | 991 | 14 |
| Incremental Loads | | 0 | 0 |
| **SUB-TOTAL** | **38** | **1,242** | **60** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***1,340 kg/day*** | |

| Calculation of the TMDL - Pounds per day | | | |
|---|---|---|---|
| Load description | WLA (lbs/day) (1) | LA (lbs/day) (1) | MOS Load (lbs/day) (1) |
| Point Source loads | 84 | | 20 |
| Headwater / Tributatary loads | | 553 | 82 |
| Benthic loads | | 2,185 | 31 |
| Incremental Loads | | 0 | 0 |
| **SUB-TOTAL** | **84** | **2,738** | **133** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***2,955 lbs/day*** | |

**Notes:**

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

| Calculation of the TMDL - Kilograms per day | | | |
|---|---|---|---|
| Load description | WLA (kg/day) | LA (kg/day) | MOS Load (kg/day) |
| Point Source loads | 38 | | 9 |
| Natural Nonpoint Loads | | 966 | |
| Manmade Nonpoint Loads | | 276 | 51 |
| | | | |
| **SUB-TOTAL** | **38** | **1,242** | **60** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***1,340 kg/day*** | |

| Calculation of the TMDL - Pounds per day | | | |
|---|---|---|---|
| Load description | WLA (lbs/day) | LA (lbs/day) | MOS Load (lbs/day) |
| Point Source loads | 84 | | 20 |
| Natural Nonpoint Loads | | 2,130 | |
| Manmade Nonpoint Loads | | 609 | 112 |
| | | | |
| **SUB-TOTAL** | **84** | **2,739** | **132** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***2,955 lbs/day*** | |

# Appendix A2 – Winter TMDL Summary

## Winter TMDL Summary:

**Iatt Creek 101303**

| Calculation of the TMDL - Kilograms per day | | | |
|---|---|---|---|
| Load description | WLA (kg/day) | LA (kg/day) | MOS Load (kg/day) |
| Point Source loads | 38 | | 9 |
| Headwater / Tributatary loads | | 282 | 39 |
| Benthic loads | | 710 | 19 |
| Incremental Loads | | 0 | 0 |
| **SUB-TOTAL** | **38** | **992** | **67** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***1,097 kg/day*** | |

| Calculation of the TMDL - Pounds per day | | | |
|---|---|---|---|
| Load description | WLA (lbs/day) (1) | LA (lbs/day) (1) | MOS Load (lbs/day) (1) |
| Point Source loads | 84 | | 20 |
| Headwater / Tributatary loads | | 622 | 86 |
| Benthic loads | | 1,566 | 42 |
| Incremental Loads | | 0 | 0 |
| **SUB-TOTAL** | **84** | **2,188** | **148** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***2,420 lbs/day*** | |

**Notes:**

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

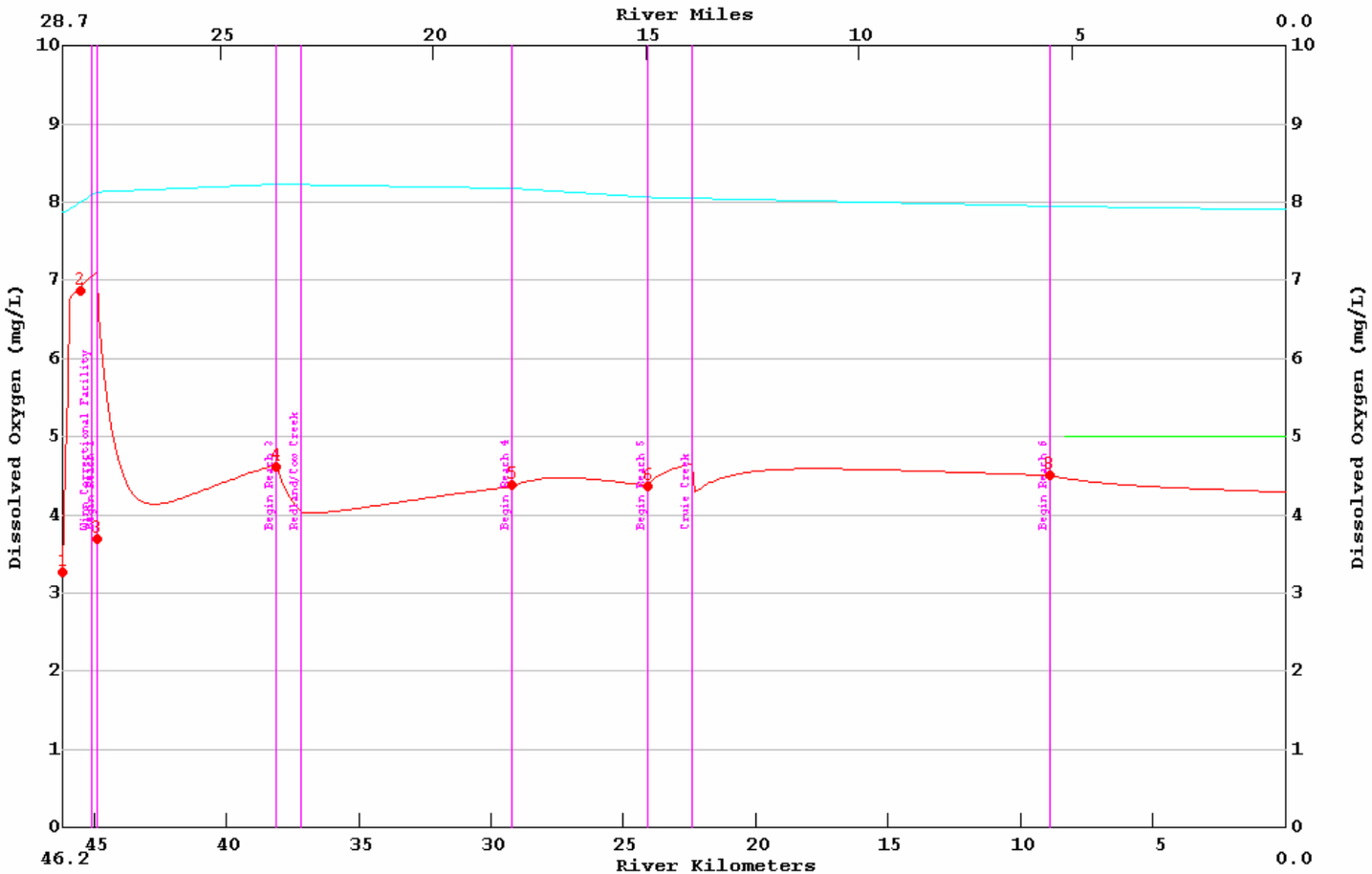
| Calculation of the TMDL - Kilograms per day | | | |
|---|---|---|---|
| Load description | WLA (kg/day) | LA (kg/day) | MOS Load (kg/day) |
| Point Source loads | 38 | | 9 |
| Natural Nonpoint Loads | | 743 | |
| Manmade Nonpoint Loads | | 249 | 58 |
| | | | |
| **SUB-TOTAL** | **38** | **992** | **67** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***1,097 kgs/day*** | |

| Calculation of the TMDL - Pounds per day | | | |
|---|---|---|---|
| Load description | WLA (lbs/day) | LA (lbs/day) | MOS Load (lbs/day) |
| Point Source loads | 84 | | 20 |
| Natural Nonpoint Loads | | 1,637 | |
| Manmade Nonpoint Loads | | 551 | 128 |
| | | | |
| **SUB-TOTAL** | **84** | **2,188** | **148** |
| | | | |
| ***TMDL = WLA + LA + MOS*** | | ***2,420 lbs/day*** | |

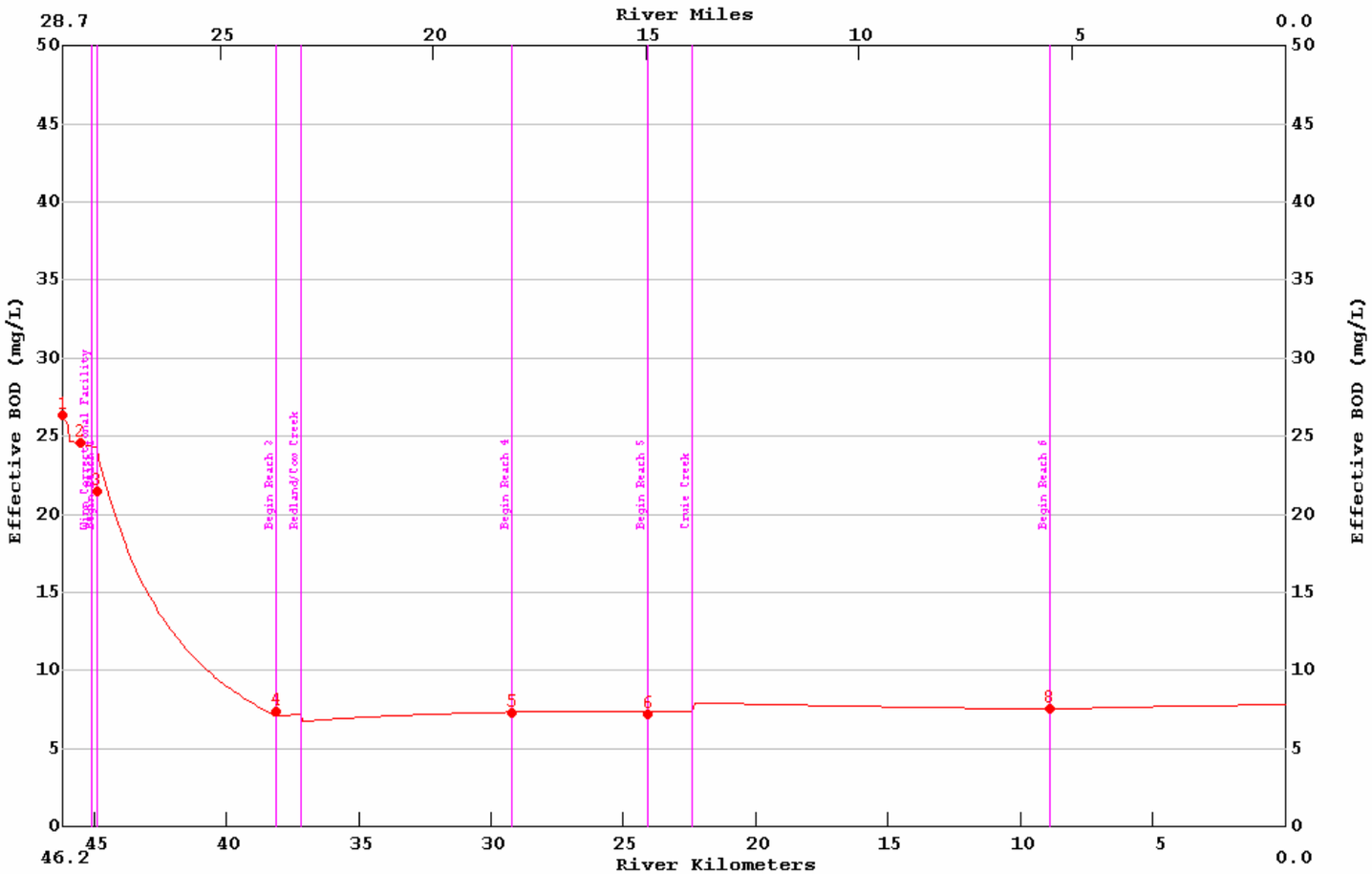
# Appendix B – Calibration Model Input and Output Data Sets

# Appendix B1 – Calibration Output and Graphs

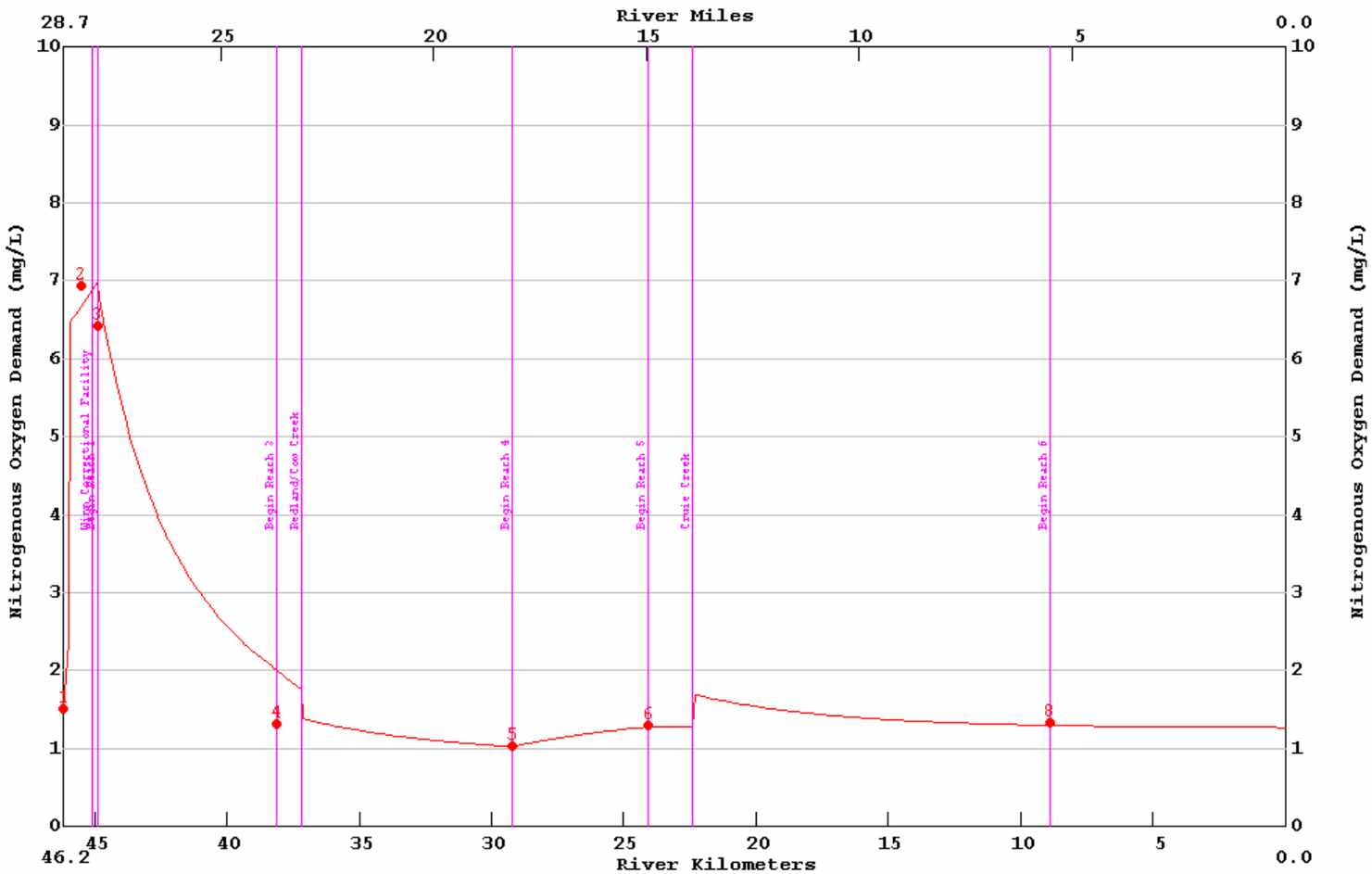
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 3.27 max= 7.10
MAINSTEM



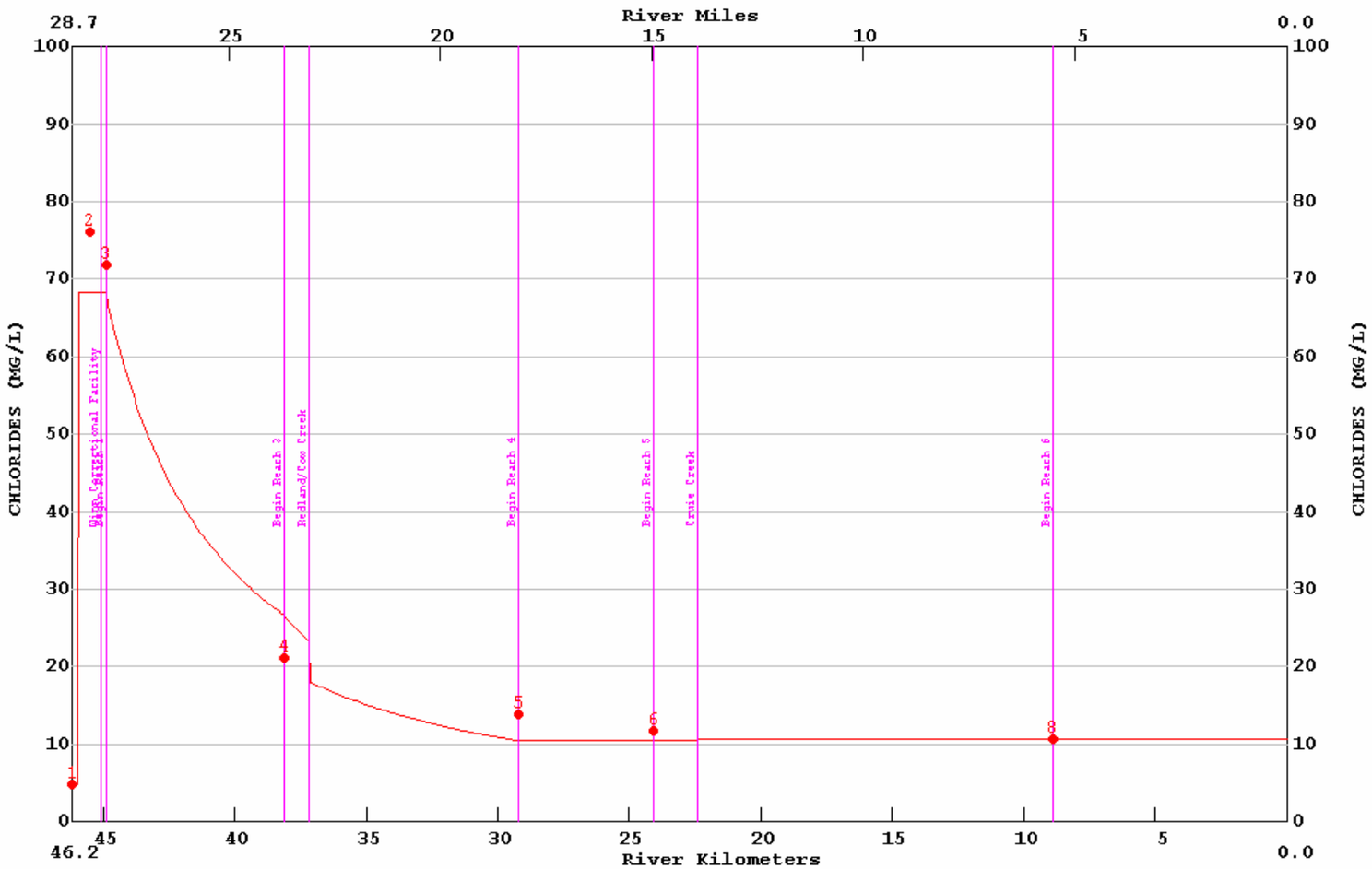
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 6.73 max= 26.30
MAINSTEM



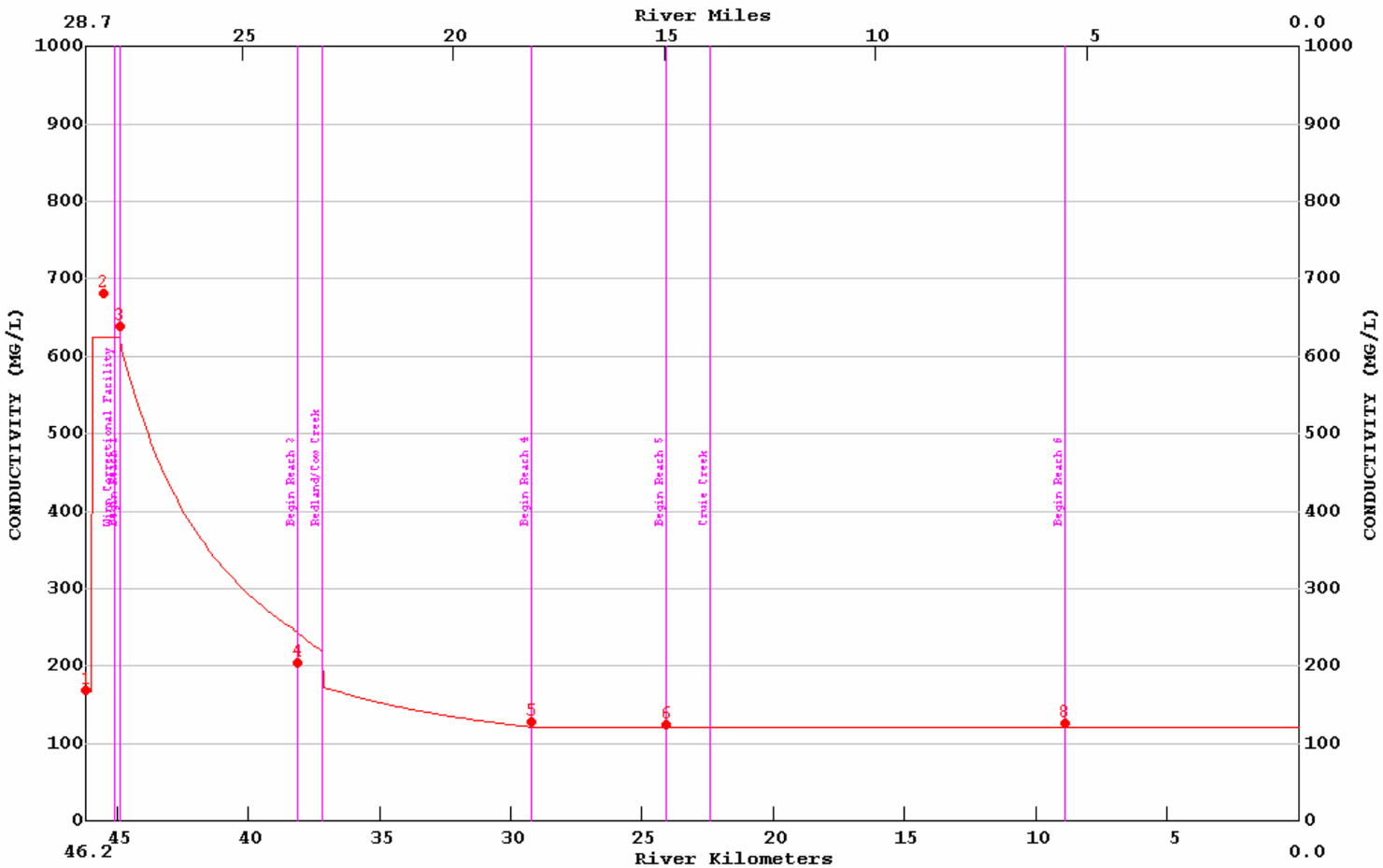
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 1.02 max= 6.99
MAINSTEM



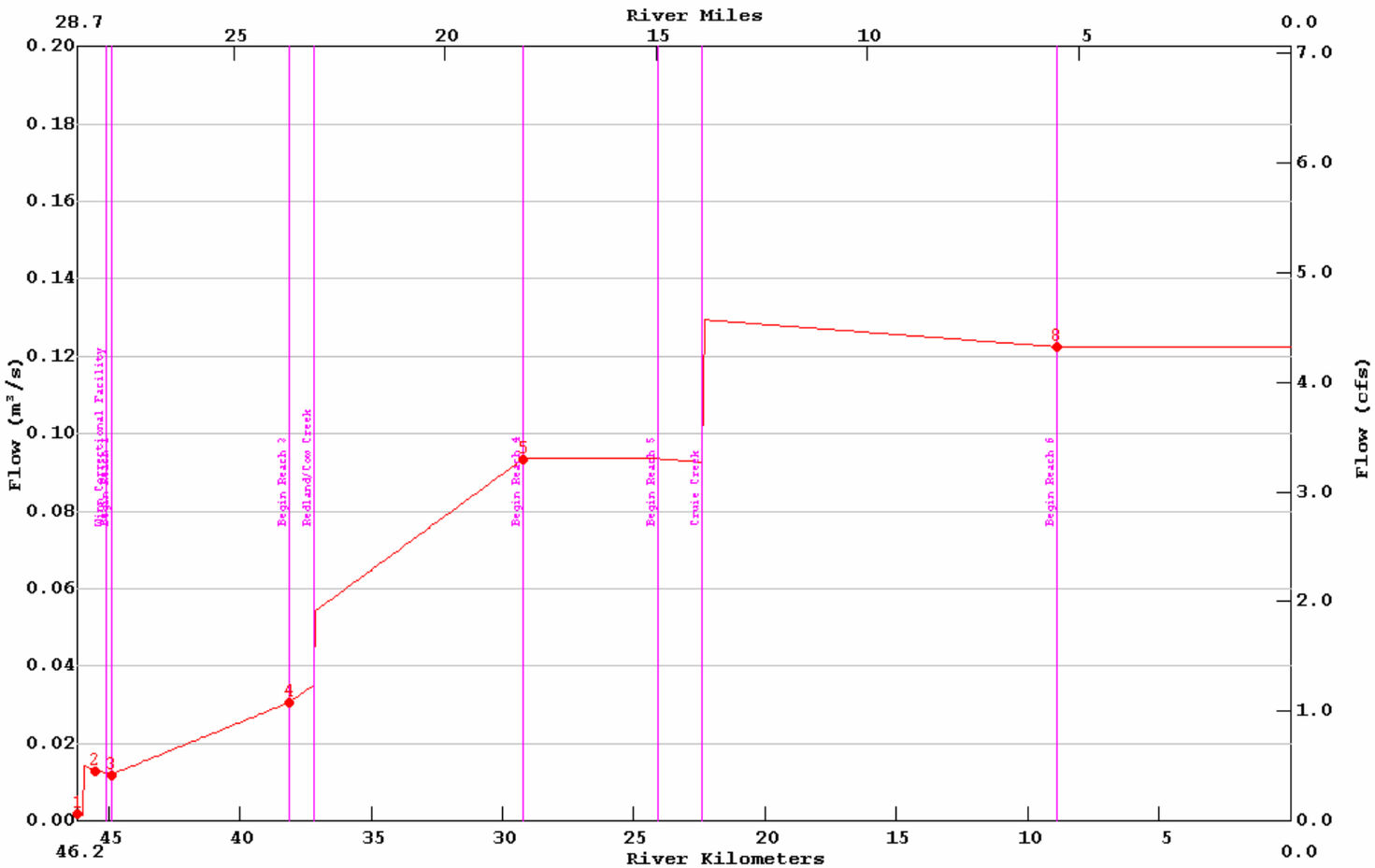
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 4.80 max= 68.28
MAINSTEM



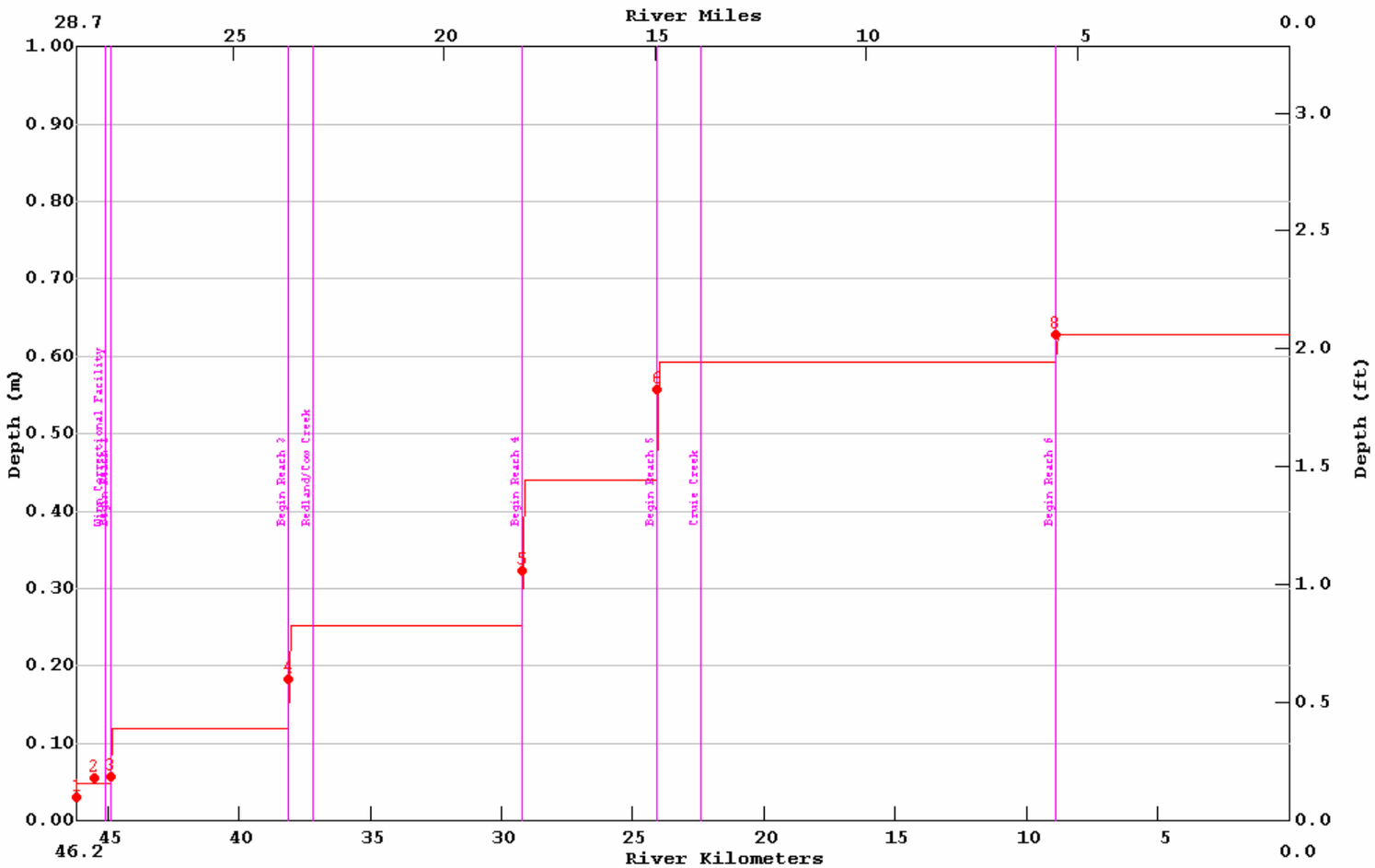
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 121.15 max= 624.46
MAINSTEM



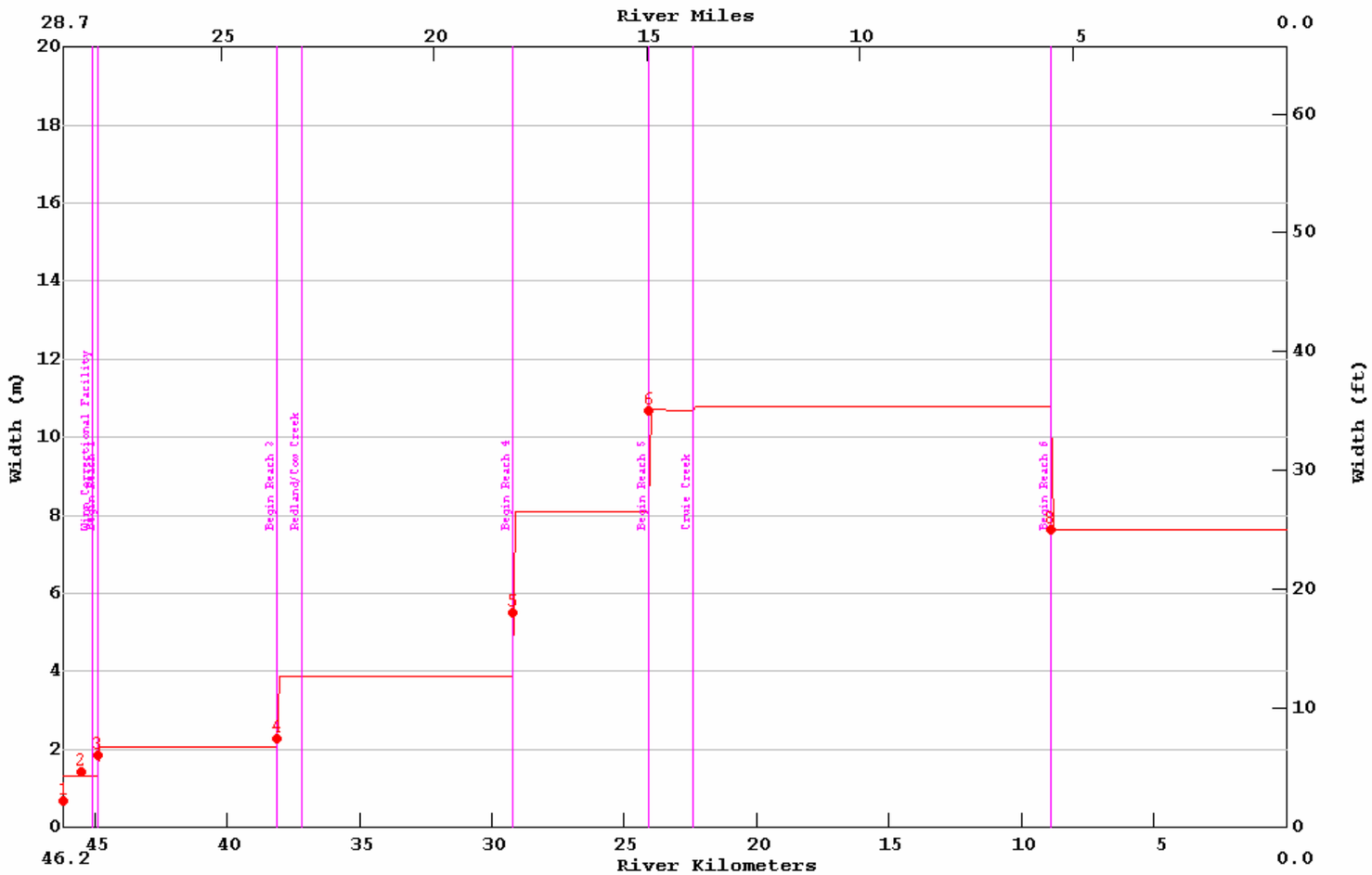
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 0.00 max= 0.13
MAINSTEM



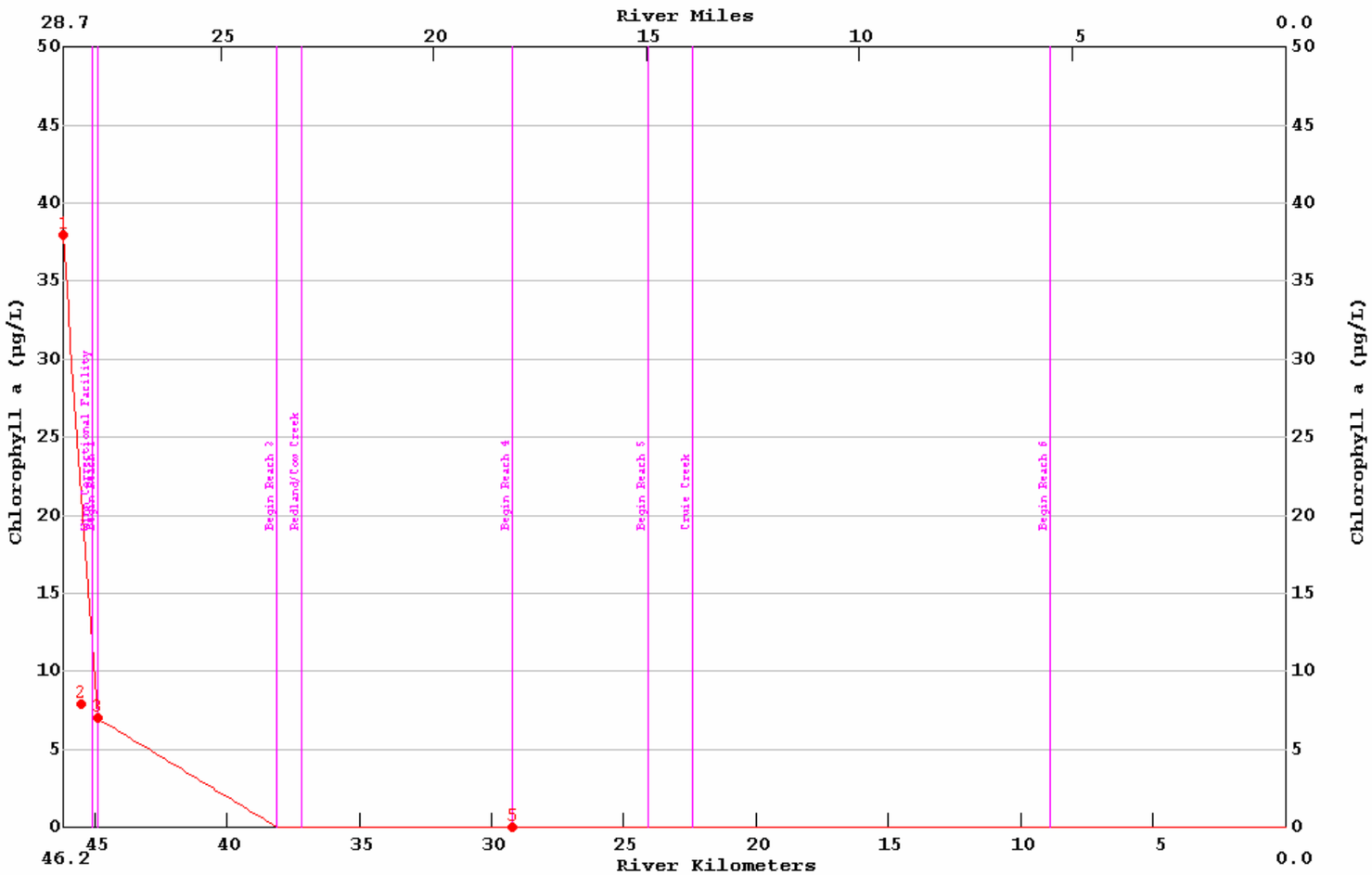
LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 0.05 max= 0.63
MAINSTEM



LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 1.32 max= 10.80
MAINSTEM



LA-QUAL Version 6.10 Run at 14:42 on 01/27/2005 File D:\Iatt Creek\Input Files\Iattcalbfinal.txt
IATT CREEK FINAL CALIBRATION RUN min= 0.00 max= 38.00
MAINSTEM



## Iatt Creek 101303 Calibration Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK FINAL CALIBRATION RUN
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
```

```
REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------******-------******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    27.84    0.0    3.48    0.000   0.000         38.00
INITIAL     2    25.89    0.0    4.15    0.000   0.000          7.00
INITIAL     3    25.22    0.0    4.50    0.000   0.000
INITIAL     4    25.57    0.0    4.38    0.000   0.000          0.00
INITIAL     5    26.34    0.0    4.44    0.000   0.000
INITIAL     6    27.13    0.0    3.41    0.000   0.000
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
```

```
!                REA    KL                     BOD 1  BOD 1                BOD 2    BOD 2
!          R#    EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                     0.50 0.0405 0.20
COEF-1      2  11.00                     2.10 0.0555 0.20
COEF-1      3  11.00                     2.25 0.0640 0.15
COEF-1      4  11.00                     1.75 0.0669 0.15
COEF-1      5  11.00                     1.45 0.0646 0.05
COEF-1      6  11.00                     1.50 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  27.840              0         0
INCR-1      2     0.0000  0.0187  25.890              0         0
INCR-1      3     0.0000  0.0442  25.220              0        50
INCR-1      4     0.0000  0.0000  25.570              0        50
INCR-1      5    -0.0079  0.0000  26.340              0        50
INCR-1      6     0.0000  0.0000  27.130              0        50
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     47.0     5.0
NONPOINT    4     35.0     9.0
NONPOINT    5    105.0    45.0
NONPOINT    6     70.0    20.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.0020   29.06  0.07     4.8     167.10
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      3.27     26.3    1.51
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.01274   30.26     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.01869   24.29     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.03682   24.96     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      6.86   24.58         6.93
WSTLD-2    91      4.00    5.81         0.70
WSTLD-2   239      3.31    9.32         2.72
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
WSTLD-3    91
```

```
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  27.44
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   2.30
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovl.txt                     :MAINSTEM
ENDATA31
```

## Iatt Creek 101303 Calibration Run Output Data Set

```
LA-QUAL Version 6.10
Louisiana Department of Environmental Quality

Input file is D:\Iatt Creek\Input Files\Iattcalbfinal.txt
Output produced at 14:20 on 03/11/2005

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK FINAL CALIBRATION RUN
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE
```

```
ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3             46.20  TO   44.90   0.1000     1.30      13       1     13
REACH ID      2   IC  SITE 3 - SITE 4                44.90  TO   38.10   0.1000     6.80      68      14     81
REACH ID      3   IC  SITE 4 - SITE 5                38.10  TO   29.20   0.1000     8.90      89      82    170
REACH ID      4   IC  SITE 5 - SITE 6                29.20  TO   24.10   0.1000     5.10      51     171    221
REACH ID      5   IC  SITE 6 - SITE 8                24.10  TO    8.90   0.1000    15.20     152     222    373
REACH ID      6   IC  SITE 8 - SITE 9                 8.90  TO    0.00   0.1000     8.90      89     374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       27.84      0.00      3.48      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       25.89      0.00      4.15      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       25.22      0.00      4.50      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       25.57      0.00      4.38      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.34      0.00      4.44      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       27.13      0.00      3.41      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS            0.000     0.000     0.000     0.500     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS            0.000     0.000     0.000     2.100     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS            0.000     0.000     0.000     2.250     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS            0.000     0.000     0.000     1.750     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS            0.000     0.000     0.000     1.450     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS            0.000     0.000     0.000     1.500     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE      DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000       0.000     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

ENDATA14

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

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD
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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      -0.00280     0.00000     27.84      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     25.89      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     25.22      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     25.57      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.34      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     27.13      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                        BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       47.00      5.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       35.00      9.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC      105.00     45.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       70.00     20.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.00200    0.071   29.06     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   3.27     26.30      1.51      0.00      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

HDWTR-3           1     HEADWATER                   0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.01274    0.44986    0.291   30.26     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.01869    0.65996    0.427   24.29     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.03682    1.30014    0.840   24.96     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           6.86     24.58      0.00      6.93      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           4.00      5.81      0.00      0.70      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 3.31      9.32      0.00      2.72      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-3           3     WINN CORRECTIONAL          0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK          0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     27.440     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      2.300     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovl.txt                     :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
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     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   6 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    HEADWATER                                       IATT CREEK WATERSHED MODEL
REACH NO.  1    HEADWATER - SITE 3                              IATT CREEK FINAL CALIBRATION RUN
```

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.00200 | 29.06 | 0.07 | 4.80 | 167.10 | 3.27 | 26.30 | 0.00 | 26.30 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |
| 3 | WSTLD | 0.01274 | 30.26 | 0.35 | 76.10 | 680.80 | 6.86 | 24.58 | 0.00 | 24.58 | 0.00 | 6.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.20 | 46.10 | 0.00178 | 0.0 | 0.02814 | 0.04 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.028 |
| 2 | 46.10 | 46.00 | 0.00157 | 0.0 | 0.02475 | 0.05 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.025 |
| 3 | 46.00 | 45.90 | 0.01409 | 89.0 | 0.22227 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.222 |
| 4 | 45.90 | 45.80 | 0.01388 | 89.0 | 0.21888 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.219 |
| 5 | 45.80 | 45.70 | 0.01366 | 89.0 | 0.21548 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.215 |
| 6 | 45.70 | 45.60 | 0.01345 | 89.0 | 0.21208 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.212 |
| 7 | 45.60 | 45.50 | 0.01323 | 89.0 | 0.20869 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.209 |
| 8 | 45.50 | 45.40 | 0.01302 | 89.0 | 0.20529 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.205 |
| 9 | 45.40 | 45.30 | 0.01280 | 89.0 | 0.20189 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.202 |
| 10 | 45.30 | 45.20 | 0.01259 | 89.0 | 0.19849 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.198 |
| 11 | 45.20 | 45.10 | 0.01237 | 89.0 | 0.19510 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.195 |
| 12 | 45.10 | 45.00 | 0.01216 | 89.0 | 0.19170 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.192 |
| 13 | 45.00 | 44.90 | 0.01194 | 89.0 | 0.18830 | 0.01 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 0.188 |
| TOT | | | | | | 0.15 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 0.10026 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.15 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.87 | 16.85 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.81 | 0.81 | 0.10 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 46.000 | 7.89 | 16.80 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.80 | 0.11 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 45.900 | 7.91 | 22.13 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.80 | 0.11 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 45.800 | 7.93 | 21.98 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 0.79 | 0.11 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 7.96 | 21.83 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.78 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 21.67 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 8.00 | 21.52 | 0.06 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 8.02 | 21.37 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.10 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 8.04 | 21.21 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.75 | 0.75 | 0.10 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 8.06 | 21.06 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.75 | 0.75 | 0.10 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 8.09 | 20.90 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.74 | 0.74 | 0.74 | 0.10 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 8.11 | 20.74 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 0.73 | 0.73 | 0.10 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 8.13 | 20.59 | 0.05 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.72 | 0.72 | 0.10 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 18.19 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 27.69 | 0.00 | 4.80 | 167.10 | 4.66 | 26.02 | 0.00 | 26.02 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 27.54 | 0.00 | 4.80 | 167.10 | 5.59 | 25.70 | 0.00 | 25.70 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 27.39 | 0.00 | 68.28 | 624.46 | 6.77 | 24.67 | 0.00 | 24.67 | 0.00 | 6.48 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 27.24 | 0.00 | 68.28 | 624.46 | 6.81 | 24.63 | 0.00 | 24.63 | 0.00 | 6.52 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 27.09 | 0.00 | 68.28 | 624.46 | 6.85 | 24.59 | 0.00 | 24.59 | 0.00 | 6.57 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.94 | 0.00 | 68.28 | 624.46 | 6.89 | 24.55 | 0.00 | 24.55 | 0.00 | 6.62 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.79 | 0.00 | 68.28 | 624.46 | 6.92 | 24.51 | 0.00 | 24.51 | 0.00 | 6.67 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.64 | 0.00 | 68.28 | 624.46 | 6.96 | 24.47 | 0.00 | 24.47 | 0.00 | 6.72 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.49 | 0.00 | 68.28 | 624.46 | 6.99 | 24.43 | 0.00 | 24.43 | 0.00 | 6.77 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.34 | 0.00 | 68.28 | 624.46 | 7.02 | 24.39 | 0.00 | 24.39 | 0.00 | 6.82 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.19 | 0.00 | 68.28 | 624.46 | 7.05 | 24.35 | 0.00 | 24.35 | 0.00 | 6.88 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.04 | 0.00 | 68.28 | 624.46 | 7.08 | 24.31 | 0.00 | 24.31 | 0.00 | 6.93 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 25.89 | 0.00 | 68.28 | 624.46 | 7.10 | 24.27 | 0.00 | 24.27 | 0.00 | 6.99 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK FINAL CALIBRATION RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.01194 | 25.89 | 0.00 | 68.28 | 624.46 | 7.10 | 24.27 | 0.00 | 24.27 | 0.00 | 6.99 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 25.89 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.01222 | 87.0 | 0.04910 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.049 |
| 15 | 44.80 | 44.70 | 0.01249 | 85.1 | 0.05021 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.050 |
| 16 | 44.70 | 44.60 | 0.01277 | 83.3 | 0.05131 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.051 |
| 17 | 44.60 | 44.50 | 0.01304 | 81.5 | 0.05242 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.052 |
| 18 | 44.50 | 44.40 | 0.01332 | 79.8 | 0.05353 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.054 |
| 19 | 44.40 | 44.30 | 0.01359 | 78.2 | 0.05463 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.055 |
| 20 | 44.30 | 44.20 | 0.01387 | 76.7 | 0.05574 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.056 |
| 21 | 44.20 | 44.10 | 0.01414 | 75.2 | 0.05684 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.057 |
| 22 | 44.10 | 44.00 | 0.01442 | 73.7 | 0.05795 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.058 |
| 23 | 44.00 | 43.90 | 0.01469 | 72.4 | 0.05905 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.059 |
| 24 | 43.90 | 43.80 | 0.01497 | 71.0 | 0.06016 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.060 |
| 25 | 43.80 | 43.70 | 0.01524 | 69.8 | 0.06126 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.061 |
| 26 | 43.70 | 43.60 | 0.01552 | 68.5 | 0.06237 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.062 |
| 27 | 43.60 | 43.50 | 0.01579 | 67.3 | 0.06347 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.063 |
| 28 | 43.50 | 43.40 | 0.01607 | 66.2 | 0.06458 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.065 |
| 29 | 43.40 | 43.30 | 0.01634 | 65.1 | 0.06569 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.066 |
| 30 | 43.30 | 43.20 | 0.01662 | 64.0 | 0.06679 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.067 |
| 31 | 43.20 | 43.10 | 0.01689 | 62.9 | 0.06790 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.068 |
| 32 | 43.10 | 43.00 | 0.01717 | 61.9 | 0.06900 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.069 |
| 33 | 43.00 | 42.90 | 0.01744 | 61.0 | 0.07011 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.070 |
| 34 | 42.90 | 42.80 | 0.01772 | 60.0 | 0.07121 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.071 |
| 35 | 42.80 | 42.70 | 0.01799 | 59.1 | 0.07232 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.072 |
| 36 | 42.70 | 42.60 | 0.01827 | 58.2 | 0.07342 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.073 |
| 37 | 42.60 | 42.50 | 0.01854 | 57.3 | 0.07453 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.075 |
| 38 | 42.50 | 42.40 | 0.01882 | 56.5 | 0.07564 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.076 |
| 39 | 42.40 | 42.30 | 0.01909 | 55.7 | 0.07674 | 0.02 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.077 |
| 40 | 42.30 | 42.20 | 0.01937 | 54.9 | 0.07785 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.078 |
| 41 | 42.20 | 42.10 | 0.01964 | 54.1 | 0.07895 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.079 |
| 42 | 42.10 | 42.00 | 0.01992 | 53.4 | 0.08006 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.080 |
| 43 | 42.00 | 41.90 | 0.02019 | 52.7 | 0.08116 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.081 |
| 44 | 41.90 | 41.80 | 0.02047 | 51.9 | 0.08227 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.082 |
| 45 | 41.80 | 41.70 | 0.02074 | 51.3 | 0.08337 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.083 |
| 46 | 41.70 | 41.60 | 0.02102 | 50.6 | 0.08448 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.084 |
| 47 | 41.60 | 41.50 | 0.02129 | 49.9 | 0.08558 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.086 |
| 48 | 41.50 | 41.40 | 0.02157 | 49.3 | 0.08669 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.087 |
| 49 | 41.40 | 41.30 | 0.02184 | 48.7 | 0.08780 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.088 |
| 50 | 41.30 | 41.20 | 0.02212 | 48.1 | 0.08890 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.089 |
| 51 | 41.20 | 41.10 | 0.02239 | 47.5 | 0.09001 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.090 |
| 52 | 41.10 | 41.00 | 0.02267 | 46.9 | 0.09111 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.091 |
| 53 | 41.00 | 40.90 | 0.02294 | 46.3 | 0.09222 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.092 |
| 54 | 40.90 | 40.80 | 0.02322 | 45.8 | 0.09332 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.093 |
| 55 | 40.80 | 40.70 | 0.02349 | 45.3 | 0.09443 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.094 |
| 56 | 40.70 | 40.60 | 0.02377 | 44.7 | 0.09553 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.096 |
| 57 | 40.60 | 40.50 | 0.02404 | 44.2 | 0.09664 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.097 |
| 58 | 40.50 | 40.40 | 0.02432 | 43.7 | 0.09774 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.098 |
| 59 | 40.40 | 40.30 | 0.02459 | 43.2 | 0.09885 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.099 |
| 60 | 40.30 | 40.20 | 0.02487 | 42.8 | 0.09996 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.100 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | 40.20 | 40.10 | 0.02514 | 42.3 | 0.10106 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.101 |
| 62 | 40.10 | 40.00 | 0.02542 | 41.8 | 0.10217 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.102 |
| 63 | 40.00 | 39.90 | 0.02569 | 41.4 | 0.10327 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.103 |
| 64 | 39.90 | 39.80 | 0.02597 | 40.9 | 0.10438 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.104 |
| 65 | 39.80 | 39.70 | 0.02624 | 40.5 | 0.10548 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.105 |
| 66 | 39.70 | 39.60 | 0.02652 | 40.1 | 0.10659 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.107 |
| 67 | 39.60 | 39.50 | 0.02679 | 39.7 | 0.10769 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.108 |
| 68 | 39.50 | 39.40 | 0.02707 | 39.3 | 0.10880 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.109 |
| 69 | 39.40 | 39.30 | 0.02734 | 38.9 | 0.10991 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.110 |
| 70 | 39.30 | 39.20 | 0.02762 | 38.5 | 0.11101 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.111 |
| 71 | 39.20 | 39.10 | 0.02789 | 38.1 | 0.11212 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.112 |
| 72 | 39.10 | 39.00 | 0.02817 | 37.7 | 0.11322 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.113 |
| 73 | 39.00 | 38.90 | 0.02844 | 37.4 | 0.11433 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.114 |
| 74 | 38.90 | 38.80 | 0.02872 | 37.0 | 0.11543 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.115 |
| 75 | 38.80 | 38.70 | 0.02899 | 36.7 | 0.11654 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.117 |
| 76 | 38.70 | 38.60 | 0.02927 | 36.3 | 0.11764 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.118 |
| 77 | 38.60 | 38.50 | 0.02954 | 36.0 | 0.11875 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.119 |
| 78 | 38.50 | 38.40 | 0.02982 | 35.7 | 0.11985 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.120 |
| 79 | 38.40 | 38.30 | 0.03009 | 35.3 | 0.12096 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.121 |
| 80 | 38.30 | 38.20 | 0.03037 | 35.0 | 0.12207 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.122 |
| 81 | 38.20 | 38.10 | 0.03064 | 34.7 | 0.12317 | 0.01 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.123 |
| TOT | | | | | | 0.98 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.08036 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 1.13 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 8.13 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 3.04 | 3.04 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 8.13 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 3.04 | 3.04 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 8.13 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 3.04 | 3.04 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 8.14 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 3.04 | 3.04 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 8.14 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 3.03 | 3.03 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 8.14 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 3.03 | 3.03 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 8.14 | 6.52 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 3.03 | 3.03 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 8.14 | 6.53 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 3.03 | 3.03 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 8.14 | 6.57 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 3.03 | 3.03 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 8.14 | 6.60 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 3.02 | 3.02 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 8.15 | 6.63 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 3.02 | 3.02 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 8.15 | 6.66 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 3.02 | 3.02 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 8.15 | 6.70 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 3.02 | 3.02 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 8.15 | 6.73 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 3.02 | 3.02 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 8.15 | 6.76 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 8.15 | 6.79 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 8.15 | 6.82 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 8.16 | 6.85 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 8.16 | 6.88 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | 42.900 | 8.16 | 6.90 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 3.01 | 3.01 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 42.800 | 8.16 | 6.93 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00 | 3.00 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 42.700 | 8.16 | 6.96 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00 | 3.00 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 8.16 | 6.99 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00 | 3.00 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 8.16 | 7.02 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00 | 3.00 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 8.17 | 7.04 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 3.00 | 3.00 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 8.17 | 7.07 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 8.17 | 7.10 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 8.17 | 7.12 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 8.17 | 7.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 8.17 | 7.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 8.17 | 7.20 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 2.99 | 2.99 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 8.18 | 7.22 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 2.98 | 2.98 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 8.18 | 7.25 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 2.98 | 2.98 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 8.18 | 7.27 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 2.98 | 2.98 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 8.18 | 7.30 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 2.98 | 2.98 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 8.18 | 7.32 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 2.98 | 2.98 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 8.18 | 7.34 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 2.97 | 2.97 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 8.19 | 7.37 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 2.97 | 2.97 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 8.19 | 7.39 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 2.97 | 2.97 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 8.19 | 7.41 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 2.97 | 2.97 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 8.19 | 7.44 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 2.97 | 2.97 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 8.19 | 7.46 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 8.19 | 7.48 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 8.19 | 7.50 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 8.20 | 7.53 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 8.20 | 7.55 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 8.20 | 7.57 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 8.20 | 7.59 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 2.95 | 2.95 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 8.20 | 7.61 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 2.95 | 2.95 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 8.20 | 7.63 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 2.95 | 2.95 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 8.20 | 7.65 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 2.95 | 2.95 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 8.21 | 7.67 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 2.95 | 2.95 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 8.21 | 7.69 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 8.21 | 7.72 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 8.21 | 7.74 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 8.21 | 7.76 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 8.21 | 7.78 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 8.21 | 7.79 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 2.94 | 2.94 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 8.22 | 7.81 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 2.93 | 2.93 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 8.22 | 7.83 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 2.93 | 2.93 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 8.22 | 7.85 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 2.93 | 2.93 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 8.22 | 7.87 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 2.93 | 2.93 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 8.22 | 7.89 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 2.93 | 2.93 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 8.22 | 7.91 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 2.92 | 2.92 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 8.23 | 7.93 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 2.92 | 2.92 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 8.23 | 7.95 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 2.92 | 2.92 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 8.23 | 7.96 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 2.92 | 2.92 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 8.23 | 7.98 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 2.92 | 2.92 | 2.92 | 0.08 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 6.52 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 25.88 | 0.00 | 66.74 | 610.41 | 6.59 | 23.56 | 0.00 | 23.56 | 0.00 | 6.78 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 25.87 | 0.00 | 65.27 | 596.97 | 6.16 | 22.88 | 0.00 | 22.88 | 0.00 | 6.58 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 25.86 | 0.00 | 63.87 | 584.11 | 5.80 | 22.23 | 0.00 | 22.23 | 0.00 | 6.39 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 25.85 | 0.00 | 62.52 | 571.79 | 5.50 | 21.62 | 0.00 | 21.62 | 0.00 | 6.21 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 25.84 | 0.00 | 61.23 | 559.98 | 5.26 | 21.04 | 0.00 | 21.04 | 0.00 | 6.04 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 25.83 | 0.00 | 59.99 | 548.65 | 5.05 | 20.48 | 0.00 | 20.48 | 0.00 | 5.88 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 25.82 | 0.00 | 58.80 | 537.76 | 4.87 | 19.95 | 0.00 | 19.95 | 0.00 | 5.73 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 25.81 | 0.00 | 57.66 | 527.31 | 4.73 | 19.44 | 0.00 | 19.44 | 0.00 | 5.58 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 25.80 | 0.00 | 56.56 | 517.25 | 4.61 | 18.96 | 0.00 | 18.96 | 0.00 | 5.44 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 25.79 | 0.00 | 55.50 | 507.56 | 4.51 | 18.49 | 0.00 | 18.49 | 0.00 | 5.31 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 25.78 | 0.00 | 54.48 | 498.24 | 4.43 | 18.05 | 0.00 | 18.05 | 0.00 | 5.18 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 25.77 | 0.00 | 53.50 | 489.25 | 4.36 | 17.62 | 0.00 | 17.62 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 25.76 | 0.00 | 52.55 | 480.57 | 4.30 | 17.21 | 0.00 | 17.21 | 0.00 | 4.94 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 25.75 | 0.00 | 51.63 | 472.20 | 4.26 | 16.82 | 0.00 | 16.82 | 0.00 | 4.82 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 25.74 | 0.00 | 50.75 | 464.12 | 4.22 | 16.44 | 0.00 | 16.44 | 0.00 | 4.71 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 25.73 | 0.00 | 49.89 | 456.31 | 4.20 | 16.08 | 0.00 | 16.08 | 0.00 | 4.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 25.72 | 0.00 | 49.07 | 448.76 | 4.18 | 15.73 | 0.00 | 15.73 | 0.00 | 4.51 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 25.71 | 0.00 | 48.27 | 441.45 | 4.16 | 15.40 | 0.00 | 15.40 | 0.00 | 4.41 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 25.70 | 0.00 | 47.50 | 434.38 | 4.15 | 15.07 | 0.00 | 15.07 | 0.00 | 4.32 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 25.69 | 0.00 | 46.75 | 427.53 | 4.14 | 14.76 | 0.00 | 14.76 | 0.00 | 4.23 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 25.68 | 0.00 | 46.02 | 420.89 | 4.14 | 14.46 | 0.00 | 14.46 | 0.00 | 4.14 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 25.67 | 0.00 | 45.32 | 414.46 | 4.14 | 14.17 | 0.00 | 14.17 | 0.00 | 4.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 25.66 | 0.00 | 44.64 | 408.22 | 4.14 | 13.89 | 0.00 | 13.89 | 0.00 | 3.98 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 25.65 | 0.00 | 43.97 | 402.16 | 4.14 | 13.63 | 0.00 | 13.63 | 0.00 | 3.90 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 25.64 | 0.00 | 43.33 | 396.29 | 4.14 | 13.36 | 0.00 | 13.36 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 25.63 | 0.00 | 42.71 | 390.58 | 4.15 | 13.11 | 0.00 | 13.11 | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 25.62 | 0.00 | 42.10 | 385.03 | 4.16 | 12.87 | 0.00 | 12.87 | 0.00 | 3.68 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 25.61 | 0.00 | 41.51 | 379.64 | 4.17 | 12.63 | 0.00 | 12.63 | 0.00 | 3.61 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 25.60 | 0.00 | 40.94 | 374.40 | 4.18 | 12.40 | 0.00 | 12.40 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 25.59 | 0.00 | 40.38 | 369.30 | 4.19 | 12.18 | 0.00 | 12.18 | 0.00 | 3.49 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 25.58 | 0.00 | 39.84 | 364.33 | 4.20 | 11.97 | 0.00 | 11.97 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 25.57 | 0.00 | 39.31 | 359.50 | 4.21 | 11.76 | 0.00 | 11.76 | 0.00 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 25.56 | 0.00 | 38.79 | 354.80 | 4.22 | 11.56 | 0.00 | 11.56 | 0.00 | 3.31 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 25.56 | 0.00 | 38.29 | 350.22 | 4.23 | 11.36 | 0.00 | 11.36 | 0.00 | 3.25 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 25.55 | 0.00 | 37.81 | 345.75 | 4.25 | 11.18 | 0.00 | 11.18 | 0.00 | 3.19 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 25.54 | 0.00 | 37.33 | 341.40 | 4.26 | 10.99 | 0.00 | 10.99 | 0.00 | 3.14 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 25.53 | 0.00 | 36.87 | 337.15 | 4.27 | 10.81 | 0.00 | 10.81 | 0.00 | 3.09 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 25.52 | 0.00 | 36.41 | 333.01 | 4.28 | 10.64 | 0.00 | 10.64 | 0.00 | 3.04 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 25.51 | 0.00 | 35.97 | 328.97 | 4.30 | 10.47 | 0.00 | 10.47 | 0.00 | 2.99 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 25.50 | 0.00 | 35.54 | 325.03 | 4.31 | 10.31 | 0.00 | 10.31 | 0.00 | 2.94 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 25.49 | 0.00 | 35.12 | 321.18 | 4.32 | 10.15 | 0.00 | 10.15 | 0.00 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 25.48 | 0.00 | 34.71 | 317.42 | 4.34 | 9.99 | 0.00 | 9.99 | 0.00 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 25.47 | 0.00 | 34.31 | 313.74 | 4.35 | 9.84 | 0.00 | 9.84 | 0.00 | 2.81 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 25.46 | 0.00 | 33.91 | 310.15 | 4.36 | 9.69 | 0.00 | 9.69 | 0.00 | 2.77 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | 40.400 | 25.45 | 0.00 | 33.53 | 306.65 | 4.37 | 9.55 | 0.00 | 9.55 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |
| 59 | 40.300 | 25.44 | 0.00 | 33.15 | 303.22 | 4.39 | 9.41 | 0.00 | 9.41 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |
| 60 | 40.200 | 25.43 | 0.00 | 32.79 | 299.86 | 4.40 | 9.27 | 0.00 | 9.27 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 25.42 | 0.00 | 32.43 | 296.58 | 4.41 | 9.14 | 0.00 | 9.14 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 25.41 | 0.00 | 32.08 | 293.37 | 4.43 | 9.01 | 0.00 | 9.01 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 25.40 | 0.00 | 31.74 | 290.23 | 4.44 | 8.88 | 0.00 | 8.88 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 25.39 | 0.00 | 31.40 | 287.16 | 4.45 | 8.76 | 0.00 | 8.76 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 25.38 | 0.00 | 31.07 | 284.15 | 4.46 | 8.64 | 0.00 | 8.64 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 25.37 | 0.00 | 30.75 | 281.20 | 4.48 | 8.52 | 0.00 | 8.52 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 25.36 | 0.00 | 30.43 | 278.32 | 4.49 | 8.41 | 0.00 | 8.41 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 25.35 | 0.00 | 30.12 | 275.49 | 4.50 | 8.30 | 0.00 | 8.30 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 25.34 | 0.00 | 29.82 | 272.72 | 4.51 | 8.19 | 0.00 | 8.19 | 0.00 | 2.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 25.33 | 0.00 | 29.52 | 270.00 | 4.52 | 8.08 | 0.00 | 8.08 | 0.00 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 25.32 | 0.00 | 29.23 | 267.34 | 4.53 | 7.98 | 0.00 | 7.98 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 25.31 | 0.00 | 28.95 | 264.73 | 4.55 | 7.88 | 0.00 | 7.88 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 25.30 | 0.00 | 28.67 | 262.17 | 4.56 | 7.78 | 0.00 | 7.78 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 25.29 | 0.00 | 28.39 | 259.66 | 4.57 | 7.68 | 0.00 | 7.68 | 0.00 | 2.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 25.28 | 0.00 | 28.12 | 257.20 | 4.58 | 7.58 | 0.00 | 7.58 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 25.27 | 0.00 | 27.86 | 254.78 | 4.59 | 7.49 | 0.00 | 7.49 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 25.26 | 0.00 | 27.60 | 252.41 | 4.60 | 7.40 | 0.00 | 7.40 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 25.25 | 0.00 | 27.34 | 250.08 | 4.61 | 7.31 | 0.00 | 7.31 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 25.24 | 0.00 | 27.09 | 247.79 | 4.62 | 7.22 | 0.00 | 7.22 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 25.23 | 0.00 | 26.85 | 245.55 | 4.63 | 7.14 | 0.00 | 7.14 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 25.22 | 0.00 | 26.61 | 243.35 | 4.65 | 7.05 | 0.00 | 7.05 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK FINAL CALIBRATION RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.03064 | 25.22 | 0.00 | 26.61 | 243.35 | 4.65 | 7.05 | 0.00 | 7.05 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 25.22 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.01869 | 24.29 | 0.03 | 8.60 | 89.10 | 4.00 | 5.81 | 0.00 | 5.81 | 0.00 | 0.70 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.03114 | 34.1 | 0.03167 | 0.04 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.032 |
| 83 | 38.00 | 37.90 | 0.03163 | 33.6 | 0.03218 | 0.04 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.032 |
| 84 | 37.90 | 37.80 | 0.03213 | 33.1 | 0.03268 | 0.04 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.033 |
| 85 | 37.80 | 37.70 | 0.03263 | 32.6 | 0.03319 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.033 |
| 86 | 37.70 | 37.60 | 0.03312 | 32.1 | 0.03369 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.034 |
| 87 | 37.60 | 37.50 | 0.03362 | 31.6 | 0.03420 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.034 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88 | 37.50 | 37.40 | 0.03412 | 31.2 | 0.03470 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.035 |
| 89 | 37.40 | 37.30 | 0.03461 | 30.7 | 0.03521 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.035 |
| 90 | 37.30 | 37.20 | 0.03511 | 30.3 | 0.03571 | 0.03 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.036 |
| 91 | 37.20 | 37.10 | 0.05430 | 54.0 | 0.05523 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.055 |
| 92 | 37.10 | 37.00 | 0.05479 | 53.5 | 0.05573 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.056 |
| 93 | 37.00 | 36.90 | 0.05529 | 53.0 | 0.05624 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.056 |
| 94 | 36.90 | 36.80 | 0.05579 | 52.6 | 0.05674 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.057 |
| 95 | 36.80 | 36.70 | 0.05628 | 52.1 | 0.05725 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.057 |
| 96 | 36.70 | 36.60 | 0.05678 | 51.6 | 0.05775 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.058 |
| 97 | 36.60 | 36.50 | 0.05728 | 51.2 | 0.05826 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.058 |
| 98 | 36.50 | 36.40 | 0.05777 | 50.8 | 0.05876 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.059 |
| 99 | 36.40 | 36.30 | 0.05827 | 50.3 | 0.05927 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.059 |
| 100 | 36.30 | 36.20 | 0.05877 | 49.9 | 0.05977 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.060 |
| 101 | 36.20 | 36.10 | 0.05926 | 49.5 | 0.06028 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.060 |
| 102 | 36.10 | 36.00 | 0.05976 | 49.1 | 0.06078 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.061 |
| 103 | 36.00 | 35.90 | 0.06026 | 48.7 | 0.06129 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.061 |
| 104 | 35.90 | 35.80 | 0.06075 | 48.3 | 0.06179 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.062 |
| 105 | 35.80 | 35.70 | 0.06125 | 47.9 | 0.06230 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.062 |
| 106 | 35.70 | 35.60 | 0.06175 | 47.5 | 0.06280 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.063 |
| 107 | 35.60 | 35.50 | 0.06224 | 47.1 | 0.06331 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.063 |
| 108 | 35.50 | 35.40 | 0.06274 | 46.7 | 0.06381 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.064 |
| 109 | 35.40 | 35.30 | 0.06324 | 46.4 | 0.06432 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.064 |
| 110 | 35.30 | 35.20 | 0.06373 | 46.0 | 0.06482 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.065 |
| 111 | 35.20 | 35.10 | 0.06423 | 45.7 | 0.06533 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.065 |
| 112 | 35.10 | 35.00 | 0.06473 | 45.3 | 0.06583 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.066 |
| 113 | 35.00 | 34.90 | 0.06522 | 45.0 | 0.06634 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.066 |
| 114 | 34.90 | 34.80 | 0.06572 | 44.6 | 0.06684 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.067 |
| 115 | 34.80 | 34.70 | 0.06622 | 44.3 | 0.06735 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.067 |
| 116 | 34.70 | 34.60 | 0.06671 | 44.0 | 0.06785 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.068 |
| 117 | 34.60 | 34.50 | 0.06721 | 43.6 | 0.06836 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.068 |
| 118 | 34.50 | 34.40 | 0.06771 | 43.3 | 0.06887 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.069 |
| 119 | 34.40 | 34.30 | 0.06820 | 43.0 | 0.06937 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.069 |
| 120 | 34.30 | 34.20 | 0.06870 | 42.7 | 0.06988 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.070 |
| 121 | 34.20 | 34.10 | 0.06920 | 42.4 | 0.07038 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.070 |
| 122 | 34.10 | 34.00 | 0.06969 | 42.1 | 0.07089 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.071 |
| 123 | 34.00 | 33.90 | 0.07019 | 41.8 | 0.07139 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.071 |
| 124 | 33.90 | 33.80 | 0.07069 | 41.5 | 0.07190 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.072 |
| 125 | 33.80 | 33.70 | 0.07118 | 41.2 | 0.07240 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.072 |
| 126 | 33.70 | 33.60 | 0.07168 | 40.9 | 0.07291 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.073 |
| 127 | 33.60 | 33.50 | 0.07217 | 40.6 | 0.07341 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.073 |
| 128 | 33.50 | 33.40 | 0.07267 | 40.3 | 0.07392 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.074 |
| 129 | 33.40 | 33.30 | 0.07317 | 40.1 | 0.07442 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.074 |
| 130 | 33.30 | 33.20 | 0.07366 | 39.8 | 0.07493 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.075 |
| 131 | 33.20 | 33.10 | 0.07416 | 39.5 | 0.07543 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.075 |
| 132 | 33.10 | 33.00 | 0.07466 | 39.3 | 0.07594 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.076 |
| 133 | 33.00 | 32.90 | 0.07515 | 39.0 | 0.07644 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.076 |
| 134 | 32.90 | 32.80 | 0.07565 | 38.8 | 0.07695 | 0.02 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.077 |
| 135 | 32.80 | 32.70 | 0.07615 | 38.5 | 0.07745 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.077 |
| 136 | 32.70 | 32.60 | 0.07664 | 38.3 | 0.07796 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.078 |
| 137 | 32.60 | 32.50 | 0.07714 | 38.0 | 0.07846 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.078 |
| 138 | 32.50 | 32.40 | 0.07764 | 37.8 | 0.07897 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.079 |
| 139 | 32.40 | 32.30 | 0.07813 | 37.5 | 0.07947 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.079 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 140 | 32.30 | 32.20 | 0.07863 | 37.3 | 0.07998 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.080 |
| 141 | 32.20 | 32.10 | 0.07913 | 37.1 | 0.08048 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.080 |
| 142 | 32.10 | 32.00 | 0.07962 | 36.8 | 0.08099 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.081 |
| 143 | 32.00 | 31.90 | 0.08012 | 36.6 | 0.08149 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.081 |
| 144 | 31.90 | 31.80 | 0.08062 | 36.4 | 0.08200 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.082 |
| 145 | 31.80 | 31.70 | 0.08111 | 36.1 | 0.08250 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.083 |
| 146 | 31.70 | 31.60 | 0.08161 | 35.9 | 0.08301 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.083 |
| 147 | 31.60 | 31.50 | 0.08211 | 35.7 | 0.08351 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.084 |
| 148 | 31.50 | 31.40 | 0.08260 | 35.5 | 0.08402 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.084 |
| 149 | 31.40 | 31.30 | 0.08310 | 35.3 | 0.08452 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.085 |
| 150 | 31.30 | 31.20 | 0.08360 | 35.1 | 0.08503 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.085 |
| 151 | 31.20 | 31.10 | 0.08409 | 34.9 | 0.08553 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.086 |
| 152 | 31.10 | 31.00 | 0.08459 | 34.7 | 0.08604 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.086 |
| 153 | 31.00 | 30.90 | 0.08509 | 34.5 | 0.08654 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.087 |
| 154 | 30.90 | 30.80 | 0.08558 | 34.3 | 0.08705 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.087 |
| 155 | 30.80 | 30.70 | 0.08608 | 34.1 | 0.08756 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.088 |
| 156 | 30.70 | 30.60 | 0.08658 | 33.9 | 0.08806 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.088 |
| 157 | 30.60 | 30.50 | 0.08707 | 33.7 | 0.08857 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.089 |
| 158 | 30.50 | 30.40 | 0.08757 | 33.5 | 0.08907 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.089 |
| 159 | 30.40 | 30.30 | 0.08807 | 33.3 | 0.08958 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.090 |
| 160 | 30.30 | 30.20 | 0.08856 | 33.1 | 0.09008 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.090 |
| 161 | 30.20 | 30.10 | 0.08906 | 32.9 | 0.09059 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.091 |
| 162 | 30.10 | 30.00 | 0.08956 | 32.7 | 0.09109 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.091 |
| 163 | 30.00 | 29.90 | 0.09005 | 32.6 | 0.09160 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.092 |
| 164 | 29.90 | 29.80 | 0.09055 | 32.4 | 0.09210 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.092 |
| 165 | 29.80 | 29.70 | 0.09105 | 32.2 | 0.09261 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.093 |
| 166 | 29.70 | 29.60 | 0.09154 | 32.0 | 0.09311 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.093 |
| 167 | 29.60 | 29.50 | 0.09204 | 31.9 | 0.09362 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.094 |
| 168 | 29.50 | 29.40 | 0.09254 | 31.7 | 0.09412 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.094 |
| 169 | 29.40 | 29.30 | 0.09303 | 31.5 | 0.09463 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.095 |
| 170 | 29.30 | 29.20 | 0.09353 | 31.3 | 0.09513 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.095 |
| TOT | | | | | | 1.57 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.06552 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 2.70 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 8.23 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 8.22 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 8.22 | 3.06 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | 37.100 | 8.22 | 3.29 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 37.000 | 8.22 | 3.30 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 3.13 | 3.13 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 36.900 | 8.22 | 3.31 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 8.22 | 3.32 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 8.22 | 3.33 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 8.22 | 3.34 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 8.22 | 3.34 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 8.22 | 3.35 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 8.22 | 3.36 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 8.22 | 3.37 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 8.22 | 3.38 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 8.22 | 3.38 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 8.22 | 3.39 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 8.22 | 3.40 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 8.22 | 3.41 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 3.14 | 3.14 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 8.21 | 3.42 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 8.21 | 3.42 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 8.21 | 3.43 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 8.21 | 3.44 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 8.21 | 3.45 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 8.21 | 3.45 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 8.21 | 3.46 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 8.21 | 3.47 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 8.21 | 3.48 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 8.21 | 3.48 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 8.21 | 3.49 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 8.21 | 3.50 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 8.21 | 3.51 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 8.21 | 3.51 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 8.21 | 3.52 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 8.21 | 3.53 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 8.21 | 3.53 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 8.20 | 3.54 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 8.20 | 3.55 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 8.20 | 3.56 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 8.20 | 3.56 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 8.20 | 3.57 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 8.20 | 3.58 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 8.20 | 3.58 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 8.20 | 3.59 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 8.20 | 3.60 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.16 | 3.16 | 3.16 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 8.20 | 3.60 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 8.20 | 3.61 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 8.20 | 3.62 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 8.20 | 3.62 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 8.20 | 3.63 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 8.20 | 3.64 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 8.20 | 3.64 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 8.20 | 3.65 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 8.19 | 3.66 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 8.19 | 3.66 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 8.19 | 3.67 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143 | 31.900 | 8.19 | 3.68 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 31.800 | 8.19 | 3.68 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 3.17 | 3.17 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 31.700 | 8.19 | 3.69 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 8.19 | 3.70 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 8.19 | 3.70 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 8.19 | 3.71 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 8.19 | 3.72 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 8.19 | 3.72 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 8.19 | 3.73 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 8.19 | 3.73 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 8.19 | 3.74 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 8.19 | 3.75 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 8.19 | 3.75 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 8.19 | 3.76 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 3.18 | 3.18 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 8.18 | 3.77 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 8.18 | 3.77 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 8.18 | 3.78 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 8.18 | 3.78 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 8.18 | 3.79 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 8.18 | 3.80 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 8.18 | 3.80 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 8.18 | 3.81 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 8.18 | 3.81 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 8.18 | 3.82 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 8.18 | 3.83 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 8.18 | 3.83 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 8.18 | 3.84 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 3.19 | 3.19 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 8.18 | 3.84 | 0.08 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 3.20 | 3.20 | 3.20 | 0.07 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 3.19 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 25.22 | 0.00 | 26.18 | 240.26 | 4.54 | 7.07 | 0.00 | 7.07 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 25.23 | 0.00 | 25.77 | 237.27 | 4.44 | 7.09 | 0.00 | 7.09 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 25.23 | 0.00 | 25.37 | 234.38 | 4.36 | 7.11 | 0.00 | 7.11 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 25.24 | 0.00 | 24.99 | 231.57 | 4.29 | 7.12 | 0.00 | 7.12 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 25.24 | 0.00 | 24.61 | 228.85 | 4.23 | 7.14 | 0.00 | 7.14 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 25.24 | 0.00 | 24.25 | 226.21 | 4.17 | 7.16 | 0.00 | 7.16 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 25.25 | 0.00 | 23.90 | 223.64 | 4.12 | 7.17 | 0.00 | 7.17 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 25.25 | 0.00 | 23.55 | 221.15 | 4.08 | 7.19 | 0.00 | 7.19 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 25.26 | 0.00 | 23.22 | 218.73 | 4.04 | 7.20 | 0.00 | 7.20 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 25.26 | 0.00 | 17.98 | 172.57 | 4.02 | 6.73 | 0.00 | 6.73 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 25.26 | 0.00 | 17.81 | 171.46 | 4.02 | 6.75 | 0.00 | 6.75 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 25.27 | 0.00 | 17.65 | 170.36 | 4.02 | 6.76 | 0.00 | 6.76 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 25.27 | 0.00 | 17.50 | 169.29 | 4.02 | 6.78 | 0.00 | 6.78 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95 | 36.700 | 25.28 | 0.00 | 17.34 | 168.24 | 4.02 | 6.79 | 0.00 | 6.79 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 96 | 36.600 | 25.28 | 0.00 | 17.19 | 167.21 | 4.03 | 6.81 | 0.00 | 6.81 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 97 | 36.500 | 25.28 | 0.00 | 17.04 | 166.19 | 4.03 | 6.82 | 0.00 | 6.82 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 25.29 | 0.00 | 16.89 | 165.19 | 4.03 | 6.83 | 0.00 | 6.83 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 25.29 | 0.00 | 16.75 | 164.21 | 4.03 | 6.85 | 0.00 | 6.85 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 25.29 | 0.00 | 16.61 | 163.24 | 4.04 | 6.86 | 0.00 | 6.86 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 25.30 | 0.00 | 16.47 | 162.29 | 4.04 | 6.87 | 0.00 | 6.87 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 25.30 | 0.00 | 16.33 | 161.36 | 4.04 | 6.88 | 0.00 | 6.88 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 25.31 | 0.00 | 16.20 | 160.44 | 4.05 | 6.89 | 0.00 | 6.89 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 25.31 | 0.00 | 16.07 | 159.54 | 4.05 | 6.91 | 0.00 | 6.91 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 25.31 | 0.00 | 15.94 | 158.65 | 4.05 | 6.92 | 0.00 | 6.92 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 25.32 | 0.00 | 15.81 | 157.78 | 4.06 | 6.93 | 0.00 | 6.93 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 25.32 | 0.00 | 15.68 | 156.92 | 4.06 | 6.94 | 0.00 | 6.94 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 25.33 | 0.00 | 15.56 | 156.07 | 4.07 | 6.95 | 0.00 | 6.95 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 25.33 | 0.00 | 15.43 | 155.24 | 4.07 | 6.96 | 0.00 | 6.96 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 25.33 | 0.00 | 15.31 | 154.42 | 4.07 | 6.97 | 0.00 | 6.97 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 25.34 | 0.00 | 15.20 | 153.61 | 4.08 | 6.98 | 0.00 | 6.98 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 25.34 | 0.00 | 15.08 | 152.82 | 4.08 | 6.99 | 0.00 | 6.99 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 25.35 | 0.00 | 14.96 | 152.03 | 4.09 | 7.00 | 0.00 | 7.00 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 25.35 | 0.00 | 14.85 | 151.26 | 4.09 | 7.01 | 0.00 | 7.01 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 25.35 | 0.00 | 14.74 | 150.50 | 4.10 | 7.02 | 0.00 | 7.02 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 25.36 | 0.00 | 14.63 | 149.76 | 4.10 | 7.03 | 0.00 | 7.03 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 25.36 | 0.00 | 14.52 | 149.02 | 4.11 | 7.04 | 0.00 | 7.04 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 25.37 | 0.00 | 14.42 | 148.29 | 4.11 | 7.05 | 0.00 | 7.05 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 25.37 | 0.00 | 14.31 | 147.58 | 4.12 | 7.06 | 0.00 | 7.06 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 25.37 | 0.00 | 14.21 | 146.87 | 4.12 | 7.06 | 0.00 | 7.06 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 25.38 | 0.00 | 14.11 | 146.18 | 4.13 | 7.07 | 0.00 | 7.07 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 25.38 | 0.00 | 14.00 | 145.49 | 4.14 | 7.08 | 0.00 | 7.08 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 25.39 | 0.00 | 13.91 | 144.81 | 4.14 | 7.09 | 0.00 | 7.09 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 25.39 | 0.00 | 13.81 | 144.15 | 4.15 | 7.10 | 0.00 | 7.10 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 25.39 | 0.00 | 13.71 | 143.49 | 4.15 | 7.10 | 0.00 | 7.10 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 25.40 | 0.00 | 13.62 | 142.84 | 4.16 | 7.11 | 0.00 | 7.11 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 25.40 | 0.00 | 13.52 | 142.21 | 4.16 | 7.12 | 0.00 | 7.12 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 25.40 | 0.00 | 13.43 | 141.57 | 4.17 | 7.13 | 0.00 | 7.13 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 25.41 | 0.00 | 13.34 | 140.95 | 4.17 | 7.13 | 0.00 | 7.13 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 25.41 | 0.00 | 13.25 | 140.34 | 4.18 | 7.14 | 0.00 | 7.14 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 25.42 | 0.00 | 13.16 | 139.74 | 4.18 | 7.15 | 0.00 | 7.15 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 25.42 | 0.00 | 13.07 | 139.14 | 4.19 | 7.15 | 0.00 | 7.15 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 25.42 | 0.00 | 12.99 | 138.55 | 4.19 | 7.16 | 0.00 | 7.16 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 25.43 | 0.00 | 12.90 | 137.97 | 4.20 | 7.17 | 0.00 | 7.17 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 25.43 | 0.00 | 12.82 | 137.39 | 4.20 | 7.17 | 0.00 | 7.17 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 25.44 | 0.00 | 12.73 | 136.83 | 4.21 | 7.18 | 0.00 | 7.18 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 25.44 | 0.00 | 12.65 | 136.27 | 4.21 | 7.19 | 0.00 | 7.19 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 25.44 | 0.00 | 12.57 | 135.72 | 4.22 | 7.19 | 0.00 | 7.19 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 25.45 | 0.00 | 12.49 | 135.17 | 4.22 | 7.20 | 0.00 | 7.20 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 25.45 | 0.00 | 12.41 | 134.63 | 4.23 | 7.20 | 0.00 | 7.20 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 25.46 | 0.00 | 12.33 | 134.10 | 4.23 | 7.21 | 0.00 | 7.21 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 25.46 | 0.00 | 12.26 | 133.58 | 4.24 | 7.22 | 0.00 | 7.22 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 25.46 | 0.00 | 12.18 | 133.06 | 4.24 | 7.22 | 0.00 | 7.22 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 25.47 | 0.00 | 12.11 | 132.55 | 4.25 | 7.23 | 0.00 | 7.23 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 25.47 | 0.00 | 12.03 | 132.04 | 4.25 | 7.23 | 0.00 | 7.23 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 25.48 | 0.00 | 11.96 | 131.54 | 4.26 | 7.24 | 0.00 | 7.24 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147 | 31.500 | 25.48 | 0.00 | 11.89 | 131.05 | 4.26 | 7.24 | 0.00 | 7.24 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 148 | 31.400 | 25.48 | 0.00 | 11.82 | 130.56 | 4.27 | 7.25 | 0.00 | 7.25 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 149 | 31.300 | 25.49 | 0.00 | 11.74 | 130.08 | 4.27 | 7.25 | 0.00 | 7.25 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 25.49 | 0.00 | 11.68 | 129.61 | 4.27 | 7.26 | 0.00 | 7.26 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 25.50 | 0.00 | 11.61 | 129.14 | 4.28 | 7.26 | 0.00 | 7.26 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 25.50 | 0.00 | 11.54 | 128.67 | 4.28 | 7.27 | 0.00 | 7.27 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 25.50 | 0.00 | 11.47 | 128.21 | 4.29 | 7.27 | 0.00 | 7.27 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 25.51 | 0.00 | 11.40 | 127.76 | 4.29 | 7.28 | 0.00 | 7.28 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 25.51 | 0.00 | 11.34 | 127.31 | 4.30 | 7.28 | 0.00 | 7.28 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 25.51 | 0.00 | 11.27 | 126.87 | 4.30 | 7.29 | 0.00 | 7.29 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 25.52 | 0.00 | 11.21 | 126.43 | 4.31 | 7.29 | 0.00 | 7.29 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 25.52 | 0.00 | 11.15 | 125.99 | 4.31 | 7.30 | 0.00 | 7.30 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 25.53 | 0.00 | 11.08 | 125.57 | 4.32 | 7.30 | 0.00 | 7.30 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 25.53 | 0.00 | 11.02 | 125.14 | 4.32 | 7.30 | 0.00 | 7.30 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 25.53 | 0.00 | 10.96 | 124.72 | 4.32 | 7.31 | 0.00 | 7.31 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 25.54 | 0.00 | 10.90 | 124.31 | 4.33 | 7.31 | 0.00 | 7.31 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 25.54 | 0.00 | 10.84 | 123.90 | 4.33 | 7.32 | 0.00 | 7.32 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 25.55 | 0.00 | 10.78 | 123.49 | 4.34 | 7.32 | 0.00 | 7.32 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 25.55 | 0.00 | 10.72 | 123.09 | 4.34 | 7.32 | 0.00 | 7.32 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 25.55 | 0.00 | 10.66 | 122.70 | 4.34 | 7.33 | 0.00 | 7.33 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 25.56 | 0.00 | 10.60 | 122.30 | 4.35 | 7.33 | 0.00 | 7.33 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 25.56 | 0.00 | 10.55 | 121.92 | 4.35 | 7.34 | 0.00 | 7.34 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 25.57 | 0.00 | 10.49 | 121.53 | 4.36 | 7.34 | 0.00 | 7.34 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 25.57 | 0.00 | 10.44 | 121.15 | 4.36 | 7.34 | 0.00 | 7.34 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK FINAL CALIBRATION RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.09353 | 25.57 | 0.00 | 10.44 | 121.15 | 4.36 | 7.34 | 0.00 | 7.34 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 172 | 29.10 | 29.00 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 173 | 29.00 | 28.90 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 174 | 28.90 | 28.80 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 175 | 28.80 | 28.70 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 176 | 28.70 | 28.60 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 177 | 28.60 | 28.50 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 178 | 28.50 | 28.40 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 179 | 28.40 | 28.30 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 180 | 28.30 | 28.20 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 181 | 28.20 | 28.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 182 | 28.10 | 28.00 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 183 | 28.00 | 27.90 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 184 | 27.90 | 27.80 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 185 | 27.80 | 27.70 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 186 | 27.70 | 27.60 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 187 | 27.60 | 27.50 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 188 | 27.50 | 27.40 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 189 | 27.40 | 27.30 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 190 | 27.30 | 27.20 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 191 | 27.20 | 27.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 192 | 27.10 | 27.00 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 193 | 27.00 | 26.90 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 194 | 26.90 | 26.80 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 195 | 26.80 | 26.70 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 196 | 26.70 | 26.60 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 197 | 26.60 | 26.50 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 198 | 26.50 | 26.40 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 199 | 26.40 | 26.30 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 200 | 26.30 | 26.20 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 201 | 26.20 | 26.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 202 | 26.10 | 26.00 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 203 | 26.00 | 25.90 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 204 | 25.90 | 25.80 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 205 | 25.80 | 25.70 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 206 | 25.70 | 25.60 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 207 | 25.60 | 25.50 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 208 | 25.50 | 25.40 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 209 | 25.40 | 25.30 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 210 | 25.30 | 25.20 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 211 | 25.20 | 25.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 212 | 25.10 | 25.00 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 213 | 25.00 | 24.90 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 214 | 24.90 | 24.80 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 215 | 24.80 | 24.70 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 216 | 24.70 | 24.60 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 217 | 24.60 | 24.50 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 218 | 24.50 | 24.40 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 219 | 24.40 | 24.30 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 220 | 24.30 | 24.20 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| 221 | 24.20 | 24.10 | 0.09353 | 31.3 | 0.02632 | 0.04 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.026 |
| TOT | | | | | | 2.24 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.02632 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 4.94 | | | | | | | | | |

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

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

| NO. | DIST | D.O. mg/L | RATE 1/da | DECAY 1/da | SETT 1/da | DECAY 1/da | DECAY 1/da | SETT 1/da | DECAY 1/da | SOD * | SOD * | SOD * | DECAY 1/da | SETT 1/da | DECAY 1/da | SRCE * | RATE 1/da | SRCE * | PROD ** | PROD ** | DECAY 1/da | DECAY 1/da | SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 8.17 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | 2.49 | 2.49 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 8.17 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | 2.49 | 2.49 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 8.17 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | 2.49 | 2.49 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 8.17 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | 2.49 | 2.49 | 0.09 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 8.17 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 2.50 | 2.50 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 8.16 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 2.50 | 2.50 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 8.16 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 2.50 | 2.50 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 8.16 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 2.50 | 2.50 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 8.16 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 2.51 | 2.51 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 8.15 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 2.51 | 2.51 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 8.15 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 2.51 | 2.51 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 8.15 | 1.77 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 2.51 | 2.51 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 8.15 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.52 | 2.52 | 2.52 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 8.15 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.52 | 2.52 | 2.52 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 8.14 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.52 | 2.52 | 2.52 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 8.14 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.52 | 2.52 | 2.52 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 8.14 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 2.53 | 2.53 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 8.14 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 2.53 | 2.53 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 8.13 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 2.53 | 2.53 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 8.13 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 2.53 | 2.53 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 8.13 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 2.54 | 2.54 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 8.13 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 2.54 | 2.54 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 8.13 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 2.54 | 2.54 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 8.12 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.54 | 2.54 | 2.54 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 8.12 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 2.55 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 8.12 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 2.55 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 8.12 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 2.55 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 8.11 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 2.55 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 8.11 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 2.55 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 8.11 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 2.56 | 2.56 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 8.11 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 2.56 | 2.56 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 8.11 | 1.78 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 2.56 | 2.56 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 8.10 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 2.56 | 2.56 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 8.10 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 2.57 | 2.57 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 8.10 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 2.57 | 2.57 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 8.10 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 2.57 | 2.57 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 8.09 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 2.57 | 2.57 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 8.09 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 8.09 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 8.09 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 8.09 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 8.08 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 2.59 | 2.59 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 8.08 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 2.59 | 2.59 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 8.08 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 2.59 | 2.59 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 8.08 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 2.59 | 2.59 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 8.07 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 2.60 | 2.60 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 8.07 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 2.60 | 2.60 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 8.07 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 2.60 | 2.60 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 8.07 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 2.60 | 2.60 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 220 | 24.200 | 8.07 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.61 | 2.61 | 2.61 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 24.100 | 8.06 | 1.79 | 0.09 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 2.61 | 2.61 | 2.61 | 0.10 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.59 | 0.07 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | | | 0.07 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

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

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO $g/m^3$ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 25.59 | 0.00 | 10.44 | 121.15 | 4.38 | 7.35 | 0.00 | 7.35 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 25.60 | 0.00 | 10.44 | 121.15 | 4.39 | 7.35 | 0.00 | 7.35 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 25.62 | 0.00 | 10.44 | 121.15 | 4.40 | 7.35 | 0.00 | 7.35 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 25.63 | 0.00 | 10.44 | 121.15 | 4.41 | 7.35 | 0.00 | 7.35 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 25.65 | 0.00 | 10.44 | 121.15 | 4.42 | 7.35 | 0.00 | 7.35 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 25.66 | 0.00 | 10.44 | 121.15 | 4.43 | 7.35 | 0.00 | 7.35 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 25.68 | 0.00 | 10.44 | 121.15 | 4.44 | 7.35 | 0.00 | 7.35 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 25.69 | 0.00 | 10.44 | 121.15 | 4.44 | 7.36 | 0.00 | 7.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 25.71 | 0.00 | 10.44 | 121.15 | 4.45 | 7.36 | 0.00 | 7.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 25.72 | 0.00 | 10.44 | 121.15 | 4.46 | 7.36 | 0.00 | 7.36 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 25.74 | 0.00 | 10.44 | 121.15 | 4.46 | 7.36 | 0.00 | 7.36 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 25.75 | 0.00 | 10.44 | 121.15 | 4.46 | 7.36 | 0.00 | 7.36 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 25.77 | 0.00 | 10.44 | 121.15 | 4.47 | 7.36 | 0.00 | 7.36 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 25.78 | 0.00 | 10.44 | 121.15 | 4.47 | 7.36 | 0.00 | 7.36 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 25.80 | 0.00 | 10.44 | 121.15 | 4.47 | 7.36 | 0.00 | 7.36 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 25.81 | 0.00 | 10.44 | 121.15 | 4.47 | 7.36 | 0.00 | 7.36 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 25.83 | 0.00 | 10.44 | 121.15 | 4.47 | 7.36 | 0.00 | 7.36 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 25.84 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 25.86 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 25.87 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 25.89 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 25.90 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 25.92 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 25.93 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 25.95 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 25.96 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 25.98 | 0.00 | 10.44 | 121.15 | 4.46 | 7.37 | 0.00 | 7.37 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 25.99 | 0.00 | 10.44 | 121.15 | 4.46 | 7.37 | 0.00 | 7.37 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.01 | 0.00 | 10.44 | 121.15 | 4.46 | 7.37 | 0.00 | 7.37 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.02 | 0.00 | 10.44 | 121.15 | 4.46 | 7.37 | 0.00 | 7.37 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.04 | 0.00 | 10.44 | 121.15 | 4.45 | 7.37 | 0.00 | 7.37 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.05 | 0.00 | 10.44 | 121.15 | 4.45 | 7.37 | 0.00 | 7.37 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.07 | 0.00 | 10.44 | 121.15 | 4.45 | 7.37 | 0.00 | 7.37 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.08 | 0.00 | 10.44 | 121.15 | 4.44 | 7.37 | 0.00 | 7.37 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.10 | 0.00 | 10.44 | 121.15 | 4.44 | 7.37 | 0.00 | 7.37 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.11 | 0.00 | 10.44 | 121.15 | 4.44 | 7.37 | 0.00 | 7.37 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.13 | 0.00 | 10.44 | 121.15 | 4.43 | 7.37 | 0.00 | 7.37 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.14 | 0.00 | 10.44 | 121.15 | 4.43 | 7.37 | 0.00 | 7.37 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.16 | 0.00 | 10.44 | 121.15 | 4.43 | 7.37 | 0.00 | 7.37 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210 | 25.200 | 26.17 | 0.00 | 10.44 | 121.15 | 4.42 | 7.37 | 0.00 | 7.37 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 211 | 25.100 | 26.19 | 0.00 | 10.44 | 121.15 | 4.42 | 7.37 | 0.00 | 7.37 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 212 | 25.000 | 26.20 | 0.00 | 10.44 | 121.15 | 4.41 | 7.37 | 0.00 | 7.37 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 26.22 | 0.00 | 10.44 | 121.15 | 4.41 | 7.37 | 0.00 | 7.37 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.23 | 0.00 | 10.44 | 121.15 | 4.41 | 7.37 | 0.00 | 7.37 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.25 | 0.00 | 10.44 | 121.15 | 4.40 | 7.37 | 0.00 | 7.37 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.26 | 0.00 | 10.44 | 121.15 | 4.40 | 7.37 | 0.00 | 7.37 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.28 | 0.00 | 10.44 | 121.15 | 4.39 | 7.37 | 0.00 | 7.37 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.29 | 0.00 | 10.44 | 121.15 | 4.39 | 7.37 | 0.00 | 7.37 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.31 | 0.00 | 10.44 | 121.15 | 4.38 | 7.37 | 0.00 | 7.37 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.32 | 0.00 | 10.44 | 121.15 | 4.38 | 7.37 | 0.00 | 7.37 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.34 | 0.00 | 10.44 | 121.15 | 4.38 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK FINAL CALIBRATION RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.09353 | 26.34 | 0.00 | 10.44 | 121.15 | 4.38 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.03682 | 24.96 | 0.05 | 11.50 | 123.40 | 3.31 | 9.32 | 0.00 | 9.32 | 0.00 | 2.72 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.09348 | 31.3 | 0.01473 | 0.08 | 0.59 | 10.70 | 634.53 | 1070.03 | 6.35 | 0.00 | 0.000 | 0.000 | 0.015 |
| 223 | 24.00 | 23.90 | 0.09343 | 31.3 | 0.01472 | 0.08 | 0.59 | 10.70 | 634.52 | 1070.01 | 6.35 | 0.00 | 0.000 | 0.000 | 0.015 |
| 224 | 23.90 | 23.80 | 0.09337 | 31.3 | 0.01472 | 0.08 | 0.59 | 10.70 | 634.50 | 1069.99 | 6.35 | 0.00 | 0.000 | 0.000 | 0.015 |
| 225 | 23.80 | 23.70 | 0.09332 | 31.3 | 0.01471 | 0.08 | 0.59 | 10.70 | 634.49 | 1069.97 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 226 | 23.70 | 23.60 | 0.09327 | 31.3 | 0.01470 | 0.08 | 0.59 | 10.70 | 634.48 | 1069.96 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 227 | 23.60 | 23.50 | 0.09322 | 31.3 | 0.01469 | 0.08 | 0.59 | 10.70 | 634.47 | 1069.94 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 228 | 23.50 | 23.40 | 0.09317 | 31.3 | 0.01468 | 0.08 | 0.59 | 10.70 | 634.46 | 1069.92 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 229 | 23.40 | 23.30 | 0.09311 | 31.3 | 0.01468 | 0.08 | 0.59 | 10.70 | 634.45 | 1069.90 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 230 | 23.30 | 23.20 | 0.09306 | 31.3 | 0.01467 | 0.08 | 0.59 | 10.70 | 634.44 | 1069.89 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 231 | 23.20 | 23.10 | 0.09301 | 31.3 | 0.01466 | 0.08 | 0.59 | 10.70 | 634.43 | 1069.87 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 232 | 23.10 | 23.00 | 0.09296 | 31.3 | 0.01465 | 0.08 | 0.59 | 10.70 | 634.42 | 1069.85 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 233 | 23.00 | 22.90 | 0.09291 | 31.3 | 0.01464 | 0.08 | 0.59 | 10.70 | 634.41 | 1069.83 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 234 | 22.90 | 22.80 | 0.09285 | 31.3 | 0.01464 | 0.08 | 0.59 | 10.70 | 634.40 | 1069.82 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 235 | 22.80 | 22.70 | 0.09280 | 31.3 | 0.01463 | 0.08 | 0.59 | 10.70 | 634.39 | 1069.80 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 236 | 22.70 | 22.60 | 0.09275 | 31.3 | 0.01462 | 0.08 | 0.59 | 10.70 | 634.38 | 1069.78 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 237 | 22.60 | 22.50 | 0.09270 | 31.3 | 0.01461 | 0.08 | 0.59 | 10.70 | 634.37 | 1069.77 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 238 | 22.50 | 22.40 | 0.09265 | 31.3 | 0.01460 | 0.08 | 0.59 | 10.70 | 634.36 | 1069.75 | 6.34 | 0.00 | 0.000 | 0.000 | 0.015 |
| 239 | 22.40 | 22.30 | 0.12941 | 50.9 | 0.02020 | 0.06 | 0.59 | 10.80 | 640.73 | 1080.49 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 240 | 22.30 | 22.20 | 0.12936 | 50.9 | 0.02019 | 0.06 | 0.59 | 10.80 | 640.72 | 1080.47 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 241 | 22.20 | 22.10 | 0.12931 | 50.9 | 0.02018 | 0.06 | 0.59 | 10.80 | 640.71 | 1080.46 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 242 | 22.10 | 22.00 | 0.12926 | 50.9 | 0.02017 | 0.06 | 0.59 | 10.80 | 640.71 | 1080.45 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 243 | 22.00 | 21.90 | 0.12921 | 50.9 | 0.02017 | 0.06 | 0.59 | 10.80 | 640.70 | 1080.43 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 244 | 21.90 | 21.80 | 0.12915 | 50.9 | 0.02016 | 0.06 | 0.59 | 10.80 | 640.69 | 1080.42 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 245 | 21.80 | 21.70 | 0.12910 | 50.9 | 0.02015 | 0.06 | 0.59 | 10.80 | 640.68 | 1080.41 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 246 | 21.70 | 21.60 | 0.12905 | 50.9 | 0.02014 | 0.06 | 0.59 | 10.80 | 640.67 | 1080.39 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 247 | 21.60 | 21.50 | 0.12900 | 50.9 | 0.02014 | 0.06 | 0.59 | 10.80 | 640.67 | 1080.38 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 248 | 21.50 | 21.40 | 0.12895 | 50.9 | 0.02013 | 0.06 | 0.59 | 10.80 | 640.66 | 1080.37 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 249 | 21.40 | 21.30 | 0.12889 | 50.9 | 0.02012 | 0.06 | 0.59 | 10.80 | 640.65 | 1080.35 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 250 | 21.30 | 21.20 | 0.12884 | 50.9 | 0.02011 | 0.06 | 0.59 | 10.80 | 640.64 | 1080.34 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 251 | 21.20 | 21.10 | 0.12879 | 50.9 | 0.02010 | 0.06 | 0.59 | 10.80 | 640.63 | 1080.33 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 252 | 21.10 | 21.00 | 0.12874 | 50.9 | 0.02010 | 0.06 | 0.59 | 10.80 | 640.63 | 1080.31 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 253 | 21.00 | 20.90 | 0.12869 | 50.9 | 0.02009 | 0.06 | 0.59 | 10.80 | 640.62 | 1080.30 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 254 | 20.90 | 20.80 | 0.12863 | 50.9 | 0.02008 | 0.06 | 0.59 | 10.80 | 640.61 | 1080.29 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 255 | 20.80 | 20.70 | 0.12858 | 50.9 | 0.02007 | 0.06 | 0.59 | 10.80 | 640.60 | 1080.27 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 256 | 20.70 | 20.60 | 0.12853 | 50.9 | 0.02006 | 0.06 | 0.59 | 10.80 | 640.59 | 1080.26 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 257 | 20.60 | 20.50 | 0.12848 | 50.9 | 0.02006 | 0.06 | 0.59 | 10.80 | 640.59 | 1080.25 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 258 | 20.50 | 20.40 | 0.12843 | 50.9 | 0.02005 | 0.06 | 0.59 | 10.80 | 640.58 | 1080.23 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 259 | 20.40 | 20.30 | 0.12837 | 50.9 | 0.02004 | 0.06 | 0.59 | 10.80 | 640.57 | 1080.22 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 260 | 20.30 | 20.20 | 0.12832 | 50.9 | 0.02003 | 0.06 | 0.59 | 10.80 | 640.56 | 1080.21 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 261 | 20.20 | 20.10 | 0.12827 | 50.9 | 0.02002 | 0.06 | 0.59 | 10.80 | 640.55 | 1080.19 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 262 | 20.10 | 20.00 | 0.12822 | 50.9 | 0.02002 | 0.06 | 0.59 | 10.80 | 640.55 | 1080.18 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 263 | 20.00 | 19.90 | 0.12817 | 50.9 | 0.02001 | 0.06 | 0.59 | 10.80 | 640.54 | 1080.17 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 264 | 19.90 | 19.80 | 0.12811 | 50.9 | 0.02000 | 0.06 | 0.59 | 10.80 | 640.53 | 1080.15 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 265 | 19.80 | 19.70 | 0.12806 | 50.9 | 0.01999 | 0.06 | 0.59 | 10.80 | 640.52 | 1080.14 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 266 | 19.70 | 19.60 | 0.12801 | 50.9 | 0.01999 | 0.06 | 0.59 | 10.80 | 640.51 | 1080.13 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 267 | 19.60 | 19.50 | 0.12796 | 50.9 | 0.01998 | 0.06 | 0.59 | 10.80 | 640.51 | 1080.11 | 6.41 | 0.00 | 0.000 | 0.000 | 0.020 |
| 268 | 19.50 | 19.40 | 0.12791 | 50.9 | 0.01997 | 0.06 | 0.59 | 10.80 | 640.50 | 1080.10 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 269 | 19.40 | 19.30 | 0.12786 | 50.9 | 0.01996 | 0.06 | 0.59 | 10.80 | 640.49 | 1080.09 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 270 | 19.30 | 19.20 | 0.12780 | 50.9 | 0.01995 | 0.06 | 0.59 | 10.80 | 640.48 | 1080.07 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 271 | 19.20 | 19.10 | 0.12775 | 50.9 | 0.01995 | 0.06 | 0.59 | 10.80 | 640.47 | 1080.06 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 272 | 19.10 | 19.00 | 0.12770 | 50.9 | 0.01994 | 0.06 | 0.59 | 10.80 | 640.47 | 1080.04 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 273 | 19.00 | 18.90 | 0.12765 | 50.9 | 0.01993 | 0.06 | 0.59 | 10.80 | 640.46 | 1080.03 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 274 | 18.90 | 18.80 | 0.12760 | 50.9 | 0.01992 | 0.06 | 0.59 | 10.80 | 640.45 | 1080.02 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 275 | 18.80 | 18.70 | 0.12754 | 50.9 | 0.01991 | 0.06 | 0.59 | 10.80 | 640.44 | 1080.00 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 276 | 18.70 | 18.60 | 0.12749 | 50.9 | 0.01991 | 0.06 | 0.59 | 10.80 | 640.43 | 1079.99 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 277 | 18.60 | 18.50 | 0.12744 | 50.9 | 0.01990 | 0.06 | 0.59 | 10.80 | 640.43 | 1079.98 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 278 | 18.50 | 18.40 | 0.12739 | 50.9 | 0.01989 | 0.06 | 0.59 | 10.80 | 640.42 | 1079.96 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 279 | 18.40 | 18.30 | 0.12734 | 50.9 | 0.01988 | 0.06 | 0.59 | 10.80 | 640.41 | 1079.95 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 280 | 18.30 | 18.20 | 0.12728 | 50.9 | 0.01988 | 0.06 | 0.59 | 10.80 | 640.40 | 1079.94 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 281 | 18.20 | 18.10 | 0.12723 | 50.9 | 0.01987 | 0.06 | 0.59 | 10.80 | 640.39 | 1079.92 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 282 | 18.10 | 18.00 | 0.12718 | 50.9 | 0.01986 | 0.06 | 0.59 | 10.80 | 640.39 | 1079.91 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 283 | 18.00 | 17.90 | 0.12713 | 50.9 | 0.01985 | 0.06 | 0.59 | 10.80 | 640.38 | 1079.90 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 284 | 17.90 | 17.80 | 0.12708 | 50.9 | 0.01984 | 0.06 | 0.59 | 10.80 | 640.37 | 1079.88 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 285 | 17.80 | 17.70 | 0.12702 | 50.9 | 0.01984 | 0.06 | 0.59 | 10.80 | 640.36 | 1079.87 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 286 | 17.70 | 17.60 | 0.12697 | 50.9 | 0.01983 | 0.06 | 0.59 | 10.80 | 640.35 | 1079.86 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 287 | 17.60 | 17.50 | 0.12692 | 50.9 | 0.01982 | 0.06 | 0.59 | 10.80 | 640.35 | 1079.84 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 288 | 17.50 | 17.40 | 0.12687 | 50.9 | 0.01981 | 0.06 | 0.59 | 10.80 | 640.34 | 1079.83 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 289 | 17.40 | 17.30 | 0.12682 | 50.9 | 0.01980 | 0.06 | 0.59 | 10.80 | 640.33 | 1079.81 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 290 | 17.30 | 17.20 | 0.12676 | 50.9 | 0.01980 | 0.06 | 0.59 | 10.80 | 640.32 | 1079.80 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 291 | 17.20 | 17.10 | 0.12671 | 50.9 | 0.01979 | 0.06 | 0.59 | 10.80 | 640.31 | 1079.79 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 292 | 17.10 | 17.00 | 0.12666 | 50.9 | 0.01978 | 0.06 | 0.59 | 10.80 | 640.31 | 1079.77 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 293 | 17.00 | 16.90 | 0.12661 | 50.9 | 0.01977 | 0.06 | 0.59 | 10.80 | 640.30 | 1079.76 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 294 | 16.90 | 16.80 | 0.12656 | 50.9 | 0.01977 | 0.06 | 0.59 | 10.80 | 640.29 | 1079.75 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 295 | 16.80 | 16.70 | 0.12650 | 50.9 | 0.01976 | 0.06 | 0.59 | 10.80 | 640.28 | 1079.73 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 296 | 16.70 | 16.60 | 0.12645 | 50.9 | 0.01975 | 0.06 | 0.59 | 10.80 | 640.27 | 1079.72 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 297 | 16.60 | 16.50 | 0.12640 | 50.9 | 0.01974 | 0.06 | 0.59 | 10.80 | 640.27 | 1079.71 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 298 | 16.50 | 16.40 | 0.12635 | 50.9 | 0.01973 | 0.06 | 0.59 | 10.80 | 640.26 | 1079.69 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 299 | 16.40 | 16.30 | 0.12630 | 50.9 | 0.01973 | 0.06 | 0.59 | 10.80 | 640.25 | 1079.68 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 300 | 16.30 | 16.20 | 0.12624 | 50.9 | 0.01972 | 0.06 | 0.59 | 10.80 | 640.24 | 1079.67 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 301 | 16.20 | 16.10 | 0.12619 | 50.9 | 0.01971 | 0.06 | 0.59 | 10.80 | 640.23 | 1079.65 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 302 | 16.10 | 16.00 | 0.12614 | 50.9 | 0.01970 | 0.06 | 0.59 | 10.80 | 640.23 | 1079.64 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 303 | 16.00 | 15.90 | 0.12609 | 50.9 | 0.01969 | 0.06 | 0.59 | 10.80 | 640.22 | 1079.62 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 304 | 15.90 | 15.80 | 0.12604 | 50.9 | 0.01969 | 0.06 | 0.59 | 10.80 | 640.21 | 1079.61 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 305 | 15.80 | 15.70 | 0.12598 | 50.9 | 0.01968 | 0.06 | 0.59 | 10.80 | 640.20 | 1079.60 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 306 | 15.70 | 15.60 | 0.12593 | 50.9 | 0.01967 | 0.06 | 0.59 | 10.80 | 640.19 | 1079.58 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 307 | 15.60 | 15.50 | 0.12588 | 50.9 | 0.01966 | 0.06 | 0.59 | 10.80 | 640.19 | 1079.57 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 308 | 15.50 | 15.40 | 0.12583 | 50.9 | 0.01966 | 0.06 | 0.59 | 10.80 | 640.18 | 1079.56 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 309 | 15.40 | 15.30 | 0.12578 | 50.9 | 0.01965 | 0.06 | 0.59 | 10.80 | 640.17 | 1079.54 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 310 | 15.30 | 15.20 | 0.12572 | 50.9 | 0.01964 | 0.06 | 0.59 | 10.80 | 640.16 | 1079.53 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 311 | 15.20 | 15.10 | 0.12567 | 50.9 | 0.01963 | 0.06 | 0.59 | 10.80 | 640.15 | 1079.52 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 312 | 15.10 | 15.00 | 0.12562 | 50.9 | 0.01962 | 0.06 | 0.59 | 10.80 | 640.14 | 1079.50 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 313 | 15.00 | 14.90 | 0.12557 | 50.9 | 0.01962 | 0.06 | 0.59 | 10.79 | 640.14 | 1079.49 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 314 | 14.90 | 14.80 | 0.12552 | 50.9 | 0.01961 | 0.06 | 0.59 | 10.79 | 640.13 | 1079.47 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 315 | 14.80 | 14.70 | 0.12546 | 50.9 | 0.01960 | 0.06 | 0.59 | 10.79 | 640.12 | 1079.46 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 316 | 14.70 | 14.60 | 0.12541 | 50.9 | 0.01959 | 0.06 | 0.59 | 10.79 | 640.11 | 1079.45 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 317 | 14.60 | 14.50 | 0.12536 | 50.9 | 0.01958 | 0.06 | 0.59 | 10.79 | 640.10 | 1079.43 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 318 | 14.50 | 14.40 | 0.12531 | 50.9 | 0.01958 | 0.06 | 0.59 | 10.79 | 640.10 | 1079.42 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 319 | 14.40 | 14.30 | 0.12526 | 50.9 | 0.01957 | 0.06 | 0.59 | 10.79 | 640.09 | 1079.41 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 320 | 14.30 | 14.20 | 0.12520 | 50.9 | 0.01956 | 0.06 | 0.59 | 10.79 | 640.08 | 1079.39 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 321 | 14.20 | 14.10 | 0.12515 | 50.9 | 0.01955 | 0.06 | 0.59 | 10.79 | 640.07 | 1079.38 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 322 | 14.10 | 14.00 | 0.12510 | 50.9 | 0.01954 | 0.06 | 0.59 | 10.79 | 640.06 | 1079.36 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 323 | 14.00 | 13.90 | 0.12505 | 50.9 | 0.01954 | 0.06 | 0.59 | 10.79 | 640.06 | 1079.35 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 324 | 13.90 | 13.80 | 0.12500 | 50.9 | 0.01953 | 0.06 | 0.59 | 10.79 | 640.05 | 1079.34 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 325 | 13.80 | 13.70 | 0.12494 | 50.9 | 0.01952 | 0.06 | 0.59 | 10.79 | 640.04 | 1079.32 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 326 | 13.70 | 13.60 | 0.12489 | 50.9 | 0.01951 | 0.06 | 0.59 | 10.79 | 640.03 | 1079.31 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 327 | 13.60 | 13.50 | 0.12484 | 50.9 | 0.01951 | 0.06 | 0.59 | 10.79 | 640.02 | 1079.30 | 6.40 | 0.00 | 0.000 | 0.000 | 0.020 |
| 328 | 13.50 | 13.40 | 0.12479 | 50.9 | 0.01950 | 0.06 | 0.59 | 10.79 | 640.01 | 1079.28 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 329 | 13.40 | 13.30 | 0.12474 | 50.9 | 0.01949 | 0.06 | 0.59 | 10.79 | 640.01 | 1079.27 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 330 | 13.30 | 13.20 | 0.12468 | 50.9 | 0.01948 | 0.06 | 0.59 | 10.79 | 640.00 | 1079.26 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 331 | 13.20 | 13.10 | 0.12463 | 50.9 | 0.01947 | 0.06 | 0.59 | 10.79 | 639.99 | 1079.24 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 332 | 13.10 | 13.00 | 0.12458 | 50.9 | 0.01947 | 0.06 | 0.59 | 10.79 | 639.98 | 1079.23 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 333 | 13.00 | 12.90 | 0.12453 | 50.9 | 0.01946 | 0.06 | 0.59 | 10.79 | 639.97 | 1079.21 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 334 | 12.90 | 12.80 | 0.12448 | 50.9 | 0.01945 | 0.06 | 0.59 | 10.79 | 639.97 | 1079.20 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 335 | 12.80 | 12.70 | 0.12442 | 50.9 | 0.01944 | 0.06 | 0.59 | 10.79 | 639.96 | 1079.19 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 336 | 12.70 | 12.60 | 0.12437 | 50.9 | 0.01943 | 0.06 | 0.59 | 10.79 | 639.95 | 1079.17 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 337 | 12.60 | 12.50 | 0.12432 | 50.9 | 0.01943 | 0.06 | 0.59 | 10.79 | 639.94 | 1079.16 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 338 | 12.50 | 12.40 | 0.12427 | 50.9 | 0.01942 | 0.06 | 0.59 | 10.79 | 639.93 | 1079.15 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 339 | 12.40 | 12.30 | 0.12422 | 50.9 | 0.01941 | 0.06 | 0.59 | 10.79 | 639.92 | 1079.13 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 340 | 12.30 | 12.20 | 0.12416 | 50.9 | 0.01940 | 0.06 | 0.59 | 10.79 | 639.92 | 1079.12 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 341 | 12.20 | 12.10 | 0.12411 | 50.9 | 0.01940 | 0.06 | 0.59 | 10.79 | 639.91 | 1079.10 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 342 | 12.10 | 12.00 | 0.12406 | 50.9 | 0.01939 | 0.06 | 0.59 | 10.79 | 639.90 | 1079.09 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 343 | 12.00 | 11.90 | 0.12401 | 50.9 | 0.01938 | 0.06 | 0.59 | 10.79 | 639.89 | 1079.08 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 344 | 11.90 | 11.80 | 0.12396 | 50.9 | 0.01937 | 0.06 | 0.59 | 10.79 | 639.88 | 1079.06 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 345 | 11.80 | 11.70 | 0.12390 | 50.9 | 0.01936 | 0.06 | 0.59 | 10.79 | 639.88 | 1079.05 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 346 | 11.70 | 11.60 | 0.12385 | 50.9 | 0.01936 | 0.06 | 0.59 | 10.79 | 639.87 | 1079.03 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 347 | 11.60 | 11.50 | 0.12380 | 50.9 | 0.01935 | 0.06 | 0.59 | 10.79 | 639.86 | 1079.02 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 348 | 11.50 | 11.40 | 0.12375 | 50.9 | 0.01934 | 0.06 | 0.59 | 10.79 | 639.85 | 1079.01 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 349 | 11.40 | 11.30 | 0.12370 | 50.9 | 0.01933 | 0.06 | 0.59 | 10.79 | 639.84 | 1078.99 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 350 | 11.30 | 11.20 | 0.12365 | 50.9 | 0.01932 | 0.06 | 0.59 | 10.79 | 639.83 | 1078.98 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 351 | 11.20 | 11.10 | 0.12359 | 50.9 | 0.01932 | 0.06 | 0.59 | 10.79 | 639.83 | 1078.97 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 352 | 11.10 | 11.00 | 0.12354 | 50.9 | 0.01931 | 0.06 | 0.59 | 10.79 | 639.82 | 1078.95 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 353 | 11.00 | 10.90 | 0.12349 | 50.9 | 0.01930 | 0.06 | 0.59 | 10.79 | 639.81 | 1078.94 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 354 | 10.90 | 10.80 | 0.12344 | 50.9 | 0.01929 | 0.06 | 0.59 | 10.79 | 639.80 | 1078.92 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 355 | 10.80 | 10.70 | 0.12339 | 50.9 | 0.01929 | 0.06 | 0.59 | 10.79 | 639.79 | 1078.91 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 356 | 10.70 | 10.60 | 0.12333 | 50.9 | 0.01928 | 0.06 | 0.59 | 10.79 | 639.79 | 1078.90 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 357 | 10.60 | 10.50 | 0.12328 | 50.9 | 0.01927 | 0.06 | 0.59 | 10.79 | 639.78 | 1078.88 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 358 | 10.50 | 10.40 | 0.12323 | 50.9 | 0.01926 | 0.06 | 0.59 | 10.79 | 639.77 | 1078.87 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 359 | 10.40 | 10.30 | 0.12318 | 50.9 | 0.01925 | 0.06 | 0.59 | 10.79 | 639.76 | 1078.85 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 360 | 10.30 | 10.20 | 0.12313 | 50.9 | 0.01925 | 0.06 | 0.59 | 10.79 | 639.75 | 1078.84 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 361 | 10.20 | 10.10 | 0.12307 | 50.9 | 0.01924 | 0.06 | 0.59 | 10.79 | 639.74 | 1078.83 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 362 | 10.10 | 10.00 | 0.12302 | 50.9 | 0.01923 | 0.06 | 0.59 | 10.79 | 639.74 | 1078.81 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 363 | 10.00 | 9.90 | 0.12297 | 50.9 | 0.01922 | 0.06 | 0.59 | 10.79 | 639.73 | 1078.80 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 364 | 9.90 | 9.80 | 0.12292 | 50.9 | 0.01921 | 0.06 | 0.59 | 10.79 | 639.72 | 1078.79 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 365 | 9.80 | 9.70 | 0.12287 | 50.9 | 0.01921 | 0.06 | 0.59 | 10.79 | 639.71 | 1078.77 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 366 | 9.70 | 9.60 | 0.12281 | 50.9 | 0.01920 | 0.06 | 0.59 | 10.79 | 639.70 | 1078.76 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 367 | 9.60 | 9.50 | 0.12276 | 50.9 | 0.01919 | 0.06 | 0.59 | 10.79 | 639.69 | 1078.74 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 368 | 9.50 | 9.40 | 0.12271 | 50.9 | 0.01918 | 0.06 | 0.59 | 10.79 | 639.69 | 1078.73 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 369 | 9.40 | 9.30 | 0.12266 | 50.9 | 0.01917 | 0.06 | 0.59 | 10.79 | 639.68 | 1078.72 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 370 | 9.30 | 9.20 | 0.12261 | 50.9 | 0.01917 | 0.06 | 0.59 | 10.79 | 639.67 | 1078.70 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 371 | 9.20 | 9.10 | 0.12255 | 50.9 | 0.01916 | 0.06 | 0.59 | 10.79 | 639.66 | 1078.69 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 372 | 9.10 | 9.00 | 0.12250 | 50.9 | 0.01915 | 0.06 | 0.59 | 10.79 | 639.65 | 1078.67 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| 373 | 9.00 | 8.90 | 0.12245 | 50.9 | 0.01914 | 0.06 | 0.59 | 10.79 | 639.65 | 1078.66 | 6.40 | 0.00 | 0.000 | 0.000 | 0.019 |
| TOT | | | | | | 9.29 | | | 97211.34 | 163931.39 | | | | | |
| AVG | | | | | 0.01894 | | 0.59 | 10.78 | | | 6.40 | | | | |
| CUM | | | | | | 14.23 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 2.16 | 2.16 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 2.16 | 2.16 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 2.16 | 2.16 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 2.16 | 2.16 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 232 | 23.000 | 8.06 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 22.900 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 22.800 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 2.17 | 2.17 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 8.05 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 8.04 | 1.33 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 2.18 | 2.18 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.12 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 8.04 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 2.19 | 2.19 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 8.03 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 2.20 | 2.20 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 284 | 17.800 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | 17.700 | 8.02 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 286 | 17.600 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 2.21 | 2.21 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 8.01 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 2.22 | 2.22 | 0.13 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 8.00 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 2.23 | 2.23 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.99 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.34 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 336 | 12.600 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.24 | 2.24 | 2.24 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337 | 12.500 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 338 | 12.400 | 7.98 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 2.25 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.97 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 2.26 | 2.26 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.96 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.95 | 1.35 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.18 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.45 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.35 | 0.00 | 10.44 | 121.15 | 4.41 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.35 | 0.00 | 10.44 | 121.15 | 4.44 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.36 | 0.00 | 10.44 | 121.15 | 4.47 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 225 | 23.700 | 26.36 | 0.00 | 10.44 | 121.15 | 4.49 | 7.37 | 0.00 | 7.37 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 226 | 23.600 | 26.37 | 0.00 | 10.44 | 121.15 | 4.51 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 227 | 23.500 | 26.37 | 0.00 | 10.44 | 121.15 | 4.53 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 26.38 | 0.00 | 10.44 | 121.15 | 4.55 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.38 | 0.00 | 10.44 | 121.15 | 4.56 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.39 | 0.00 | 10.44 | 121.15 | 4.58 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.39 | 0.00 | 10.44 | 121.15 | 4.59 | 7.38 | 0.00 | 7.38 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.40 | 0.00 | 10.44 | 121.15 | 4.60 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.40 | 0.00 | 10.44 | 121.15 | 4.61 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.41 | 0.00 | 10.44 | 121.15 | 4.62 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.41 | 0.00 | 10.44 | 121.15 | 4.63 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.42 | 0.00 | 10.44 | 121.15 | 4.64 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.42 | 0.00 | 10.44 | 121.15 | 4.64 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.43 | 0.00 | 10.44 | 121.15 | 4.65 | 7.39 | 0.00 | 7.39 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.43 | 0.00 | 10.74 | 121.79 | 4.29 | 7.94 | 0.00 | 7.94 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.44 | 0.00 | 10.74 | 121.79 | 4.32 | 7.93 | 0.00 | 7.93 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.44 | 0.00 | 10.74 | 121.79 | 4.34 | 7.93 | 0.00 | 7.93 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.45 | 0.00 | 10.74 | 121.79 | 4.36 | 7.92 | 0.00 | 7.92 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.45 | 0.00 | 10.74 | 121.79 | 4.38 | 7.92 | 0.00 | 7.92 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.46 | 0.00 | 10.74 | 121.79 | 4.40 | 7.92 | 0.00 | 7.92 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.46 | 0.00 | 10.74 | 121.79 | 4.41 | 7.91 | 0.00 | 7.91 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.47 | 0.00 | 10.74 | 121.79 | 4.43 | 7.91 | 0.00 | 7.91 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 26.48 | 0.00 | 10.74 | 121.79 | 4.44 | 7.90 | 0.00 | 7.90 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.48 | 0.00 | 10.74 | 121.79 | 4.45 | 7.90 | 0.00 | 7.90 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.49 | 0.00 | 10.74 | 121.79 | 4.47 | 7.90 | 0.00 | 7.90 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.49 | 0.00 | 10.74 | 121.79 | 4.48 | 7.89 | 0.00 | 7.89 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.50 | 0.00 | 10.74 | 121.79 | 4.49 | 7.89 | 0.00 | 7.89 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.50 | 0.00 | 10.74 | 121.79 | 4.50 | 7.88 | 0.00 | 7.88 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.51 | 0.00 | 10.74 | 121.79 | 4.50 | 7.88 | 0.00 | 7.88 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.51 | 0.00 | 10.74 | 121.79 | 4.51 | 7.88 | 0.00 | 7.88 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.52 | 0.00 | 10.74 | 121.79 | 4.52 | 7.87 | 0.00 | 7.87 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.52 | 0.00 | 10.74 | 121.79 | 4.53 | 7.87 | 0.00 | 7.87 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.53 | 0.00 | 10.74 | 121.79 | 4.53 | 7.87 | 0.00 | 7.87 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.53 | 0.00 | 10.74 | 121.79 | 4.54 | 7.86 | 0.00 | 7.86 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.54 | 0.00 | 10.74 | 121.79 | 4.54 | 7.86 | 0.00 | 7.86 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.54 | 0.00 | 10.74 | 121.79 | 4.55 | 7.85 | 0.00 | 7.85 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.55 | 0.00 | 10.74 | 121.79 | 4.55 | 7.85 | 0.00 | 7.85 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.55 | 0.00 | 10.74 | 121.79 | 4.56 | 7.85 | 0.00 | 7.85 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.56 | 0.00 | 10.74 | 121.79 | 4.56 | 7.84 | 0.00 | 7.84 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.56 | 0.00 | 10.74 | 121.79 | 4.56 | 7.84 | 0.00 | 7.84 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.57 | 0.00 | 10.74 | 121.79 | 4.57 | 7.84 | 0.00 | 7.84 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.57 | 0.00 | 10.74 | 121.79 | 4.57 | 7.83 | 0.00 | 7.83 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.58 | 0.00 | 10.74 | 121.79 | 4.57 | 7.83 | 0.00 | 7.83 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.58 | 0.00 | 10.74 | 121.79 | 4.58 | 7.82 | 0.00 | 7.82 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.59 | 0.00 | 10.74 | 121.79 | 4.58 | 7.82 | 0.00 | 7.82 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.59 | 0.00 | 10.74 | 121.79 | 4.58 | 7.82 | 0.00 | 7.82 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.60 | 0.00 | 10.74 | 121.79 | 4.58 | 7.81 | 0.00 | 7.81 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.61 | 0.00 | 10.74 | 121.79 | 4.58 | 7.81 | 0.00 | 7.81 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.61 | 0.00 | 10.74 | 121.79 | 4.58 | 7.81 | 0.00 | 7.81 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.62 | 0.00 | 10.74 | 121.79 | 4.59 | 7.80 | 0.00 | 7.80 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.62 | 0.00 | 10.74 | 121.79 | 4.59 | 7.80 | 0.00 | 7.80 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.63 | 0.00 | 10.74 | 121.79 | 4.59 | 7.80 | 0.00 | 7.80 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | 18.500 | 26.63 | 0.00 | 10.74 | 121.79 | 4.59 | 7.79 | 0.00 | 7.79 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 278 | 18.400 | 26.64 | 0.00 | 10.74 | 121.79 | 4.59 | 7.79 | 0.00 | 7.79 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 279 | 18.300 | 26.64 | 0.00 | 10.74 | 121.79 | 4.59 | 7.79 | 0.00 | 7.79 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 26.65 | 0.00 | 10.74 | 121.79 | 4.59 | 7.78 | 0.00 | 7.78 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.65 | 0.00 | 10.74 | 121.79 | 4.59 | 7.78 | 0.00 | 7.78 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.66 | 0.00 | 10.74 | 121.79 | 4.59 | 7.78 | 0.00 | 7.78 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.66 | 0.00 | 10.74 | 121.79 | 4.59 | 7.77 | 0.00 | 7.77 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.67 | 0.00 | 10.74 | 121.79 | 4.59 | 7.77 | 0.00 | 7.77 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.67 | 0.00 | 10.74 | 121.79 | 4.59 | 7.77 | 0.00 | 7.77 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.68 | 0.00 | 10.74 | 121.79 | 4.59 | 7.76 | 0.00 | 7.76 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.68 | 0.00 | 10.74 | 121.79 | 4.59 | 7.76 | 0.00 | 7.76 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.69 | 0.00 | 10.74 | 121.79 | 4.59 | 7.76 | 0.00 | 7.76 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.69 | 0.00 | 10.74 | 121.79 | 4.59 | 7.75 | 0.00 | 7.75 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.70 | 0.00 | 10.74 | 121.79 | 4.59 | 7.75 | 0.00 | 7.75 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.70 | 0.00 | 10.74 | 121.79 | 4.59 | 7.75 | 0.00 | 7.75 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.71 | 0.00 | 10.74 | 121.79 | 4.59 | 7.74 | 0.00 | 7.74 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.71 | 0.00 | 10.74 | 121.79 | 4.59 | 7.74 | 0.00 | 7.74 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.72 | 0.00 | 10.74 | 121.79 | 4.59 | 7.74 | 0.00 | 7.74 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.72 | 0.00 | 10.74 | 121.79 | 4.59 | 7.73 | 0.00 | 7.73 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.73 | 0.00 | 10.74 | 121.79 | 4.59 | 7.73 | 0.00 | 7.73 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.74 | 0.00 | 10.74 | 121.79 | 4.59 | 7.73 | 0.00 | 7.73 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.74 | 0.00 | 10.74 | 121.79 | 4.59 | 7.72 | 0.00 | 7.72 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 26.75 | 0.00 | 10.74 | 121.79 | 4.58 | 7.72 | 0.00 | 7.72 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.75 | 0.00 | 10.74 | 121.79 | 4.58 | 7.72 | 0.00 | 7.72 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.76 | 0.00 | 10.74 | 121.79 | 4.58 | 7.71 | 0.00 | 7.71 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.76 | 0.00 | 10.74 | 121.79 | 4.58 | 7.71 | 0.00 | 7.71 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.77 | 0.00 | 10.74 | 121.79 | 4.58 | 7.71 | 0.00 | 7.71 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.77 | 0.00 | 10.74 | 121.79 | 4.58 | 7.70 | 0.00 | 7.70 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.78 | 0.00 | 10.74 | 121.79 | 4.58 | 7.70 | 0.00 | 7.70 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.78 | 0.00 | 10.74 | 121.79 | 4.58 | 7.70 | 0.00 | 7.70 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.79 | 0.00 | 10.74 | 121.79 | 4.58 | 7.69 | 0.00 | 7.69 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.79 | 0.00 | 10.74 | 121.79 | 4.58 | 7.69 | 0.00 | 7.69 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.80 | 0.00 | 10.74 | 121.79 | 4.58 | 7.69 | 0.00 | 7.69 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.80 | 0.00 | 10.74 | 121.79 | 4.58 | 7.69 | 0.00 | 7.69 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.81 | 0.00 | 10.74 | 121.79 | 4.57 | 7.68 | 0.00 | 7.68 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.81 | 0.00 | 10.74 | 121.79 | 4.57 | 7.68 | 0.00 | 7.68 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.82 | 0.00 | 10.74 | 121.79 | 4.57 | 7.68 | 0.00 | 7.68 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.82 | 0.00 | 10.74 | 121.79 | 4.57 | 7.67 | 0.00 | 7.67 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.83 | 0.00 | 10.74 | 121.79 | 4.57 | 7.67 | 0.00 | 7.67 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.83 | 0.00 | 10.74 | 121.79 | 4.57 | 7.67 | 0.00 | 7.67 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.84 | 0.00 | 10.74 | 121.79 | 4.57 | 7.67 | 0.00 | 7.67 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.84 | 0.00 | 10.74 | 121.79 | 4.57 | 7.66 | 0.00 | 7.66 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.85 | 0.00 | 10.74 | 121.79 | 4.57 | 7.66 | 0.00 | 7.66 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.85 | 0.00 | 10.74 | 121.79 | 4.57 | 7.66 | 0.00 | 7.66 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.86 | 0.00 | 10.74 | 121.79 | 4.56 | 7.65 | 0.00 | 7.65 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.86 | 0.00 | 10.74 | 121.79 | 4.56 | 7.65 | 0.00 | 7.65 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.87 | 0.00 | 10.74 | 121.79 | 4.56 | 7.65 | 0.00 | 7.65 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.88 | 0.00 | 10.74 | 121.79 | 4.56 | 7.64 | 0.00 | 7.64 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.88 | 0.00 | 10.74 | 121.79 | 4.56 | 7.64 | 0.00 | 7.64 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.89 | 0.00 | 10.74 | 121.79 | 4.56 | 7.64 | 0.00 | 7.64 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.89 | 0.00 | 10.74 | 121.79 | 4.56 | 7.64 | 0.00 | 7.64 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.90 | 0.00 | 10.74 | 121.79 | 4.56 | 7.63 | 0.00 | 7.63 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 329 | 13.300 | 26.90 | 0.00 | 10.74 | 121.79 | 4.56 | 7.63 | 0.00 | 7.63 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 330 | 13.200 | 26.91 | 0.00 | 10.74 | 121.79 | 4.56 | 7.63 | 0.00 | 7.63 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 331 | 13.100 | 26.91 | 0.00 | 10.74 | 121.79 | 4.55 | 7.63 | 0.00 | 7.63 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 26.92 | 0.00 | 10.74 | 121.79 | 4.55 | 7.62 | 0.00 | 7.62 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 10.74 | 121.79 | 4.55 | 7.62 | 0.00 | 7.62 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.93 | 0.00 | 10.74 | 121.79 | 4.55 | 7.62 | 0.00 | 7.62 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.93 | 0.00 | 10.74 | 121.79 | 4.55 | 7.61 | 0.00 | 7.61 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.94 | 0.00 | 10.74 | 121.79 | 4.55 | 7.61 | 0.00 | 7.61 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.94 | 0.00 | 10.74 | 121.79 | 4.55 | 7.61 | 0.00 | 7.61 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.95 | 0.00 | 10.74 | 121.79 | 4.55 | 7.61 | 0.00 | 7.61 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.95 | 0.00 | 10.74 | 121.79 | 4.55 | 7.60 | 0.00 | 7.60 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.96 | 0.00 | 10.74 | 121.79 | 4.54 | 7.60 | 0.00 | 7.60 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.96 | 0.00 | 10.74 | 121.79 | 4.54 | 7.60 | 0.00 | 7.60 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.97 | 0.00 | 10.74 | 121.79 | 4.54 | 7.60 | 0.00 | 7.60 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.97 | 0.00 | 10.74 | 121.79 | 4.54 | 7.59 | 0.00 | 7.59 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.98 | 0.00 | 10.74 | 121.79 | 4.54 | 7.59 | 0.00 | 7.59 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.98 | 0.00 | 10.74 | 121.79 | 4.54 | 7.59 | 0.00 | 7.59 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.99 | 0.00 | 10.74 | 121.79 | 4.54 | 7.59 | 0.00 | 7.59 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.99 | 0.00 | 10.74 | 121.79 | 4.54 | 7.58 | 0.00 | 7.58 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 27.00 | 0.00 | 10.74 | 121.79 | 4.53 | 7.58 | 0.00 | 7.58 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 27.01 | 0.00 | 10.74 | 121.79 | 4.53 | 7.58 | 0.00 | 7.58 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 27.01 | 0.00 | 10.74 | 121.79 | 4.53 | 7.57 | 0.00 | 7.57 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 27.02 | 0.00 | 10.74 | 121.79 | 4.53 | 7.57 | 0.00 | 7.57 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 27.02 | 0.00 | 10.74 | 121.79 | 4.53 | 7.57 | 0.00 | 7.57 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 27.03 | 0.00 | 10.74 | 121.79 | 4.53 | 7.57 | 0.00 | 7.57 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 27.03 | 0.00 | 10.74 | 121.79 | 4.53 | 7.56 | 0.00 | 7.56 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 27.04 | 0.00 | 10.74 | 121.79 | 4.53 | 7.56 | 0.00 | 7.56 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 27.04 | 0.00 | 10.74 | 121.79 | 4.53 | 7.56 | 0.00 | 7.56 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 27.05 | 0.00 | 10.74 | 121.79 | 4.52 | 7.56 | 0.00 | 7.56 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 27.05 | 0.00 | 10.74 | 121.79 | 4.52 | 7.55 | 0.00 | 7.55 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 27.06 | 0.00 | 10.74 | 121.79 | 4.52 | 7.55 | 0.00 | 7.55 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 27.06 | 0.00 | 10.74 | 121.79 | 4.52 | 7.55 | 0.00 | 7.55 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 27.07 | 0.00 | 10.74 | 121.79 | 4.52 | 7.55 | 0.00 | 7.55 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 27.07 | 0.00 | 10.74 | 121.79 | 4.52 | 7.54 | 0.00 | 7.54 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 27.08 | 0.00 | 10.74 | 121.79 | 4.52 | 7.54 | 0.00 | 7.54 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 27.08 | 0.00 | 10.74 | 121.79 | 4.52 | 7.54 | 0.00 | 7.54 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 27.09 | 0.00 | 10.74 | 121.79 | 4.51 | 7.54 | 0.00 | 7.54 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 27.09 | 0.00 | 10.74 | 121.79 | 4.51 | 7.54 | 0.00 | 7.54 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 27.10 | 0.00 | 10.74 | 121.79 | 4.51 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 27.10 | 0.00 | 10.74 | 121.79 | 4.51 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 27.11 | 0.00 | 10.74 | 121.79 | 4.51 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 27.11 | 0.00 | 10.74 | 121.79 | 4.51 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 27.12 | 0.00 | 10.74 | 121.79 | 4.51 | 7.52 | 0.00 | 7.52 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 27.12 | 0.00 | 10.74 | 121.79 | 4.51 | 7.52 | 0.00 | 7.52 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 27.13 | 0.00 | 10.74 | 121.79 | 4.50 | 7.52 | 0.00 | 7.52 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK FINAL CALIBRATION RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.12245 | 27.13 | 0.00 | 10.74 | 121.79 | 4.50 | 7.52 | 0.00 | 7.52 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 375 | 8.80 | 8.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 376 | 8.70 | 8.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 377 | 8.60 | 8.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 378 | 8.50 | 8.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 379 | 8.40 | 8.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 380 | 8.30 | 8.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 381 | 8.20 | 8.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 382 | 8.10 | 8.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 383 | 8.00 | 7.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 384 | 7.90 | 7.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 385 | 7.80 | 7.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 386 | 7.70 | 7.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 387 | 7.60 | 7.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 388 | 7.50 | 7.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 389 | 7.40 | 7.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 390 | 7.30 | 7.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 391 | 7.20 | 7.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 392 | 7.10 | 7.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 393 | 7.00 | 6.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 394 | 6.90 | 6.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 395 | 6.80 | 6.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 396 | 6.70 | 6.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 397 | 6.60 | 6.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 398 | 6.50 | 6.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 399 | 6.40 | 6.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 400 | 6.30 | 6.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 401 | 6.20 | 6.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 402 | 6.10 | 6.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 403 | 6.00 | 5.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 404 | 5.90 | 5.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 405 | 5.80 | 5.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 406 | 5.70 | 5.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 407 | 5.60 | 5.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 408 | 5.50 | 5.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 409 | 5.40 | 5.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 410 | 5.30 | 5.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 411 | 5.20 | 5.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 412 | 5.10 | 5.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 413 | 5.00 | 4.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 414 | 4.90 | 4.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 415 | 4.80 | 4.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 416 | 4.70 | 4.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 417 | 4.60 | 4.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 418 | 4.50 | 4.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 419 | 4.40 | 4.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 420 | 4.30 | 4.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 421 | 4.20 | 4.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 422 | 4.10 | 4.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 423 | 4.00 | 3.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 424 | 3.90 | 3.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 425 | 3.80 | 3.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 426 | 3.70 | 3.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 427 | 3.60 | 3.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 428 | 3.50 | 3.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 429 | 3.40 | 3.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 430 | 3.30 | 3.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 431 | 3.20 | 3.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 432 | 3.10 | 3.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 433 | 3.00 | 2.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 434 | 2.90 | 2.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 435 | 2.80 | 2.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 436 | 2.70 | 2.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 437 | 2.60 | 2.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 438 | 2.50 | 2.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 439 | 2.40 | 2.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 440 | 2.30 | 2.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 441 | 2.20 | 2.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 442 | 2.10 | 2.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 443 | 2.00 | 1.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 444 | 1.90 | 1.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 445 | 1.80 | 1.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 446 | 1.70 | 1.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 447 | 1.60 | 1.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 448 | 1.50 | 1.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 449 | 1.40 | 1.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 450 | 1.30 | 1.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 451 | 1.20 | 1.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 452 | 1.10 | 1.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 453 | 1.00 | 0.90 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 454 | 0.90 | 0.80 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 455 | 0.80 | 0.70 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 456 | 0.70 | 0.60 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 457 | 0.60 | 0.50 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 458 | 0.50 | 0.40 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 459 | 0.40 | 0.30 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 460 | 0.30 | 0.20 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 461 | 0.20 | 0.10 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| 462 | 0.10 | 0.00 | 0.12245 | 50.9 | 0.02559 | 0.05 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.026 |
| TOT | | | | | | 4.03 | | | 42589.66 | 67818.00 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AVG | | | | | | 0.02559 | | | 0.63 | 7.62 | | | | | | | | 4.79 | | | | | |
| CUM | | | | | | | | 18.26 | | | | | | | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.95 | 1.27 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.95 | 1.27 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.95 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 2.35 | 2.35 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.94 | 1.28 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.94 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 2.36 | 2.36 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416 | 4.600 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | 4.500 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 418 | 4.400 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.93 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 2.37 | 2.37 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.92 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.38 | 2.38 | 2.38 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.91 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 2.39 | 2.39 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.90 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 | 2.40 | 2.40 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.90 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 | 2.40 | 2.40 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.90 | 1.28 | 0.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 | 2.40 | 2.40 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.11 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 27.13 | 0.00 | 10.74 | 121.79 | 4.50 | 7.52 | 0.00 | 7.52 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 27.14 | 0.00 | 10.74 | 121.79 | 4.49 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 27.14 | 0.00 | 10.74 | 121.79 | 4.48 | 7.53 | 0.00 | 7.53 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 27.14 | 0.00 | 10.74 | 121.79 | 4.48 | 7.54 | 0.00 | 7.54 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 27.15 | 0.00 | 10.74 | 121.79 | 4.47 | 7.54 | 0.00 | 7.54 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 27.15 | 0.00 | 10.74 | 121.79 | 4.47 | 7.55 | 0.00 | 7.55 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 27.15 | 0.00 | 10.74 | 121.79 | 4.46 | 7.55 | 0.00 | 7.55 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 27.16 | 0.00 | 10.74 | 121.79 | 4.46 | 7.56 | 0.00 | 7.56 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 27.16 | 0.00 | 10.74 | 121.79 | 4.45 | 7.56 | 0.00 | 7.56 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 27.16 | 0.00 | 10.74 | 121.79 | 4.45 | 7.57 | 0.00 | 7.57 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 27.17 | 0.00 | 10.74 | 121.79 | 4.44 | 7.57 | 0.00 | 7.57 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 27.17 | 0.01 | 10.74 | 121.79 | 4.44 | 7.58 | 0.00 | 7.58 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 27.18 | 0.01 | 10.74 | 121.79 | 4.43 | 7.58 | 0.00 | 7.58 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 27.18 | 0.01 | 10.74 | 121.79 | 4.43 | 7.59 | 0.00 | 7.59 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 27.18 | 0.01 | 10.74 | 121.79 | 4.43 | 7.59 | 0.00 | 7.59 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 27.19 | 0.01 | 10.74 | 121.79 | 4.42 | 7.60 | 0.00 | 7.60 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 27.19 | 0.01 | 10.74 | 121.79 | 4.42 | 7.60 | 0.00 | 7.60 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 27.19 | 0.01 | 10.74 | 121.79 | 4.41 | 7.60 | 0.00 | 7.60 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 27.20 | 0.01 | 10.74 | 121.79 | 4.41 | 7.61 | 0.00 | 7.61 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 27.20 | 0.01 | 10.74 | 121.79 | 4.41 | 7.61 | 0.00 | 7.61 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 27.20 | 0.01 | 10.74 | 121.79 | 4.40 | 7.62 | 0.00 | 7.62 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 27.21 | 0.01 | 10.74 | 121.79 | 4.40 | 7.62 | 0.00 | 7.62 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 27.21 | 0.01 | 10.74 | 121.79 | 4.40 | 7.62 | 0.00 | 7.62 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 27.21 | 0.01 | 10.74 | 121.79 | 4.40 | 7.63 | 0.00 | 7.63 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 27.22 | 0.01 | 10.74 | 121.79 | 4.39 | 7.63 | 0.00 | 7.63 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 27.22 | 0.01 | 10.74 | 121.79 | 4.39 | 7.64 | 0.00 | 7.64 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 27.22 | 0.01 | 10.74 | 121.79 | 4.39 | 7.64 | 0.00 | 7.64 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 27.23 | 0.01 | 10.74 | 121.79 | 4.39 | 7.64 | 0.00 | 7.64 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 27.23 | 0.01 | 10.74 | 121.79 | 4.38 | 7.65 | 0.00 | 7.65 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 27.23 | 0.01 | 10.74 | 121.79 | 4.38 | 7.65 | 0.00 | 7.65 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 27.24 | 0.01 | 10.74 | 121.79 | 4.38 | 7.66 | 0.00 | 7.66 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 27.24 | 0.01 | 10.74 | 121.79 | 4.38 | 7.66 | 0.00 | 7.66 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 27.24 | 0.01 | 10.74 | 121.79 | 4.37 | 7.66 | 0.00 | 7.66 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 27.25 | 0.02 | 10.74 | 121.79 | 4.37 | 7.67 | 0.00 | 7.67 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 27.25 | 0.02 | 10.74 | 121.79 | 4.37 | 7.67 | 0.00 | 7.67 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 27.26 | 0.02 | 10.74 | 121.79 | 4.37 | 7.67 | 0.00 | 7.67 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 27.26 | 0.02 | 10.74 | 121.79 | 4.37 | 7.68 | 0.00 | 7.68 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 27.26 | 0.02 | 10.74 | 121.79 | 4.36 | 7.68 | 0.00 | 7.68 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 27.27 | 0.02 | 10.74 | 121.79 | 4.36 | 7.68 | 0.00 | 7.68 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 27.27 | 0.02 | 10.74 | 121.79 | 4.36 | 7.69 | 0.00 | 7.69 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 27.27 | 0.02 | 10.74 | 121.79 | 4.36 | 7.69 | 0.00 | 7.69 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 27.28 | 0.02 | 10.74 | 121.79 | 4.36 | 7.69 | 0.00 | 7.69 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 27.28 | 0.02 | 10.74 | 121.79 | 4.35 | 7.70 | 0.00 | 7.70 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 27.28 | 0.02 | 10.74 | 121.79 | 4.35 | 7.70 | 0.00 | 7.70 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 27.29 | 0.02 | 10.74 | 121.79 | 4.35 | 7.70 | 0.00 | 7.70 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 27.29 | 0.02 | 10.74 | 121.79 | 4.35 | 7.71 | 0.00 | 7.71 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 420 | 4.200 | 27.29 | 0.02 | 10.74 | 121.79 | 4.35 | 7.71 | 0.00 | 7.71 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 421 | 4.100 | 27.30 | 0.02 | 10.74 | 121.79 | 4.35 | 7.71 | 0.00 | 7.71 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 422 | 4.000 | 27.30 | 0.02 | 10.74 | 121.79 | 4.34 | 7.72 | 0.00 | 7.72 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 27.30 | 0.02 | 10.74 | 121.79 | 4.34 | 7.72 | 0.00 | 7.72 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 27.31 | 0.02 | 10.74 | 121.79 | 4.34 | 7.72 | 0.00 | 7.72 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 27.31 | 0.02 | 10.74 | 121.79 | 4.34 | 7.72 | 0.00 | 7.72 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 27.31 | 0.02 | 10.74 | 121.79 | 4.34 | 7.73 | 0.00 | 7.73 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 27.32 | 0.02 | 10.74 | 121.79 | 4.34 | 7.73 | 0.00 | 7.73 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 27.32 | 0.02 | 10.74 | 121.79 | 4.34 | 7.73 | 0.00 | 7.73 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 27.33 | 0.03 | 10.74 | 121.79 | 4.33 | 7.74 | 0.00 | 7.74 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 27.33 | 0.03 | 10.74 | 121.79 | 4.33 | 7.74 | 0.00 | 7.74 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 27.33 | 0.03 | 10.74 | 121.79 | 4.33 | 7.74 | 0.00 | 7.74 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 27.34 | 0.03 | 10.74 | 121.79 | 4.33 | 7.74 | 0.00 | 7.74 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 27.34 | 0.03 | 10.74 | 121.79 | 4.33 | 7.75 | 0.00 | 7.75 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 27.34 | 0.03 | 10.74 | 121.79 | 4.33 | 7.75 | 0.00 | 7.75 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 27.35 | 0.03 | 10.74 | 121.79 | 4.33 | 7.75 | 0.00 | 7.75 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 27.35 | 0.03 | 10.74 | 121.79 | 4.32 | 7.75 | 0.00 | 7.75 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 27.35 | 0.03 | 10.74 | 121.79 | 4.32 | 7.76 | 0.00 | 7.76 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 27.36 | 0.03 | 10.74 | 121.79 | 4.32 | 7.76 | 0.00 | 7.76 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 27.36 | 0.03 | 10.74 | 121.79 | 4.32 | 7.76 | 0.00 | 7.76 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 27.36 | 0.03 | 10.74 | 121.79 | 4.32 | 7.76 | 0.00 | 7.76 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 27.37 | 0.03 | 10.74 | 121.79 | 4.32 | 7.77 | 0.00 | 7.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 27.37 | 0.03 | 10.74 | 121.79 | 4.32 | 7.77 | 0.00 | 7.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 27.37 | 0.03 | 10.74 | 121.79 | 4.31 | 7.77 | 0.00 | 7.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 27.38 | 0.03 | 10.74 | 121.79 | 4.31 | 7.77 | 0.00 | 7.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 27.38 | 0.03 | 10.74 | 121.79 | 4.31 | 7.78 | 0.00 | 7.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 27.38 | 0.03 | 10.74 | 121.79 | 4.31 | 7.78 | 0.00 | 7.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 27.39 | 0.03 | 10.74 | 121.79 | 4.31 | 7.78 | 0.00 | 7.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 27.39 | 0.03 | 10.74 | 121.79 | 4.31 | 7.78 | 0.00 | 7.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 27.39 | 0.03 | 10.74 | 121.79 | 4.31 | 7.79 | 0.00 | 7.79 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 27.40 | 0.03 | 10.74 | 121.79 | 4.31 | 7.79 | 0.00 | 7.79 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 27.40 | 0.04 | 10.74 | 121.79 | 4.30 | 7.79 | 0.00 | 7.79 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 27.41 | 0.04 | 10.74 | 121.79 | 4.30 | 7.79 | 0.00 | 7.79 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 27.41 | 0.04 | 10.74 | 121.79 | 4.30 | 7.79 | 0.00 | 7.79 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 27.41 | 0.04 | 10.74 | 121.79 | 4.30 | 7.80 | 0.00 | 7.80 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 27.42 | 0.04 | 10.74 | 121.79 | 4.30 | 7.80 | 0.00 | 7.80 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 27.42 | 0.04 | 10.74 | 121.79 | 4.30 | 7.80 | 0.00 | 7.80 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 27.42 | 0.04 | 10.74 | 121.79 | 4.30 | 7.80 | 0.00 | 7.80 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 27.43 | 0.04 | 10.74 | 121.79 | 4.30 | 7.80 | 0.00 | 7.80 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 27.43 | 0.04 | 10.74 | 121.79 | 4.29 | 7.81 | 0.00 | 7.81 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 27.43 | 0.04 | 10.74 | 121.79 | 4.29 | 7.81 | 0.00 | 7.81 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 27.44 | 0.04 | 10.74 | 121.79 | 4.29 | 7.81 | 0.00 | 7.81 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 27.44 | 0.04 | 10.74 | 121.79 | 4.29 | 7.81 | 0.00 | 7.81 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

```
STREAM SUMMARY                                          IATT CREEK WATERSHED MODEL
HEADWATER                                               IATT CREEK FINAL CALIBRATION RUN

 TRAVEL TIME       =          18.26 DAYS

 MAXIMUM EFFLUENT  =          89.03 PERCENT
```

```
 FLOW              =   0.00157 TO    0.12941   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.01460 TO    0.22227   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   10.80      m

 BOD DECAY         =    0.05   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.72   TO    3.20      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.27   TO   22.13      per day
 BOD SETTLING      =    0.06   TO    0.24      per day
 NBOD DECAY        =    0.07   TO    0.14      per day
 NBOD SETTLING     =    0.23   TO    0.36      per day

 TEMPERATURE       =   25.22   TO   27.69      deg C
 DISSOLVED OXYGEN  =    4.02   TO    7.10      mg/L


     .....EXECUTION COMPLETED
```

# Appendix B2 – Calib Justification

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| OCEAN EXCHANGE RATIO | 0 | | This was done to allow dispersion in the model but not to force the bottom element through the boundary conditions. |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **ID** | **Name** | **Upstream River Kilometer** | **Downstream River Kilometer** | **Element Length, meters** | **Data Source** |
| 1 | IC | IC1-IC3 | 46.20 | 44.90 | 100.0000 | ARC MAP Calc. |
| 2 | IC | IC3-IC4 | 44.90 | 38.10 | 100.0000 | ARC MAP Calc. |
| 3 | IC | IC4-IC5 | 38.10 | 29.20 | 100.0000 | ARC MAP Calc. |
| 4 | IC | IC5-IC6 | 29.20 | 24.10 | 100.0000 | ARC MAP Calc. |
| 5 | IC | IC6-IC8 | 24.10 | 8.90 | 100.0000 | ARC MAP Calc. |
| 6 | IC | IC8-IC9 | 8.90 | 0.00 | 100.0000 | ARC MAP Calc. |

| | | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **Width Coeff. "a"** | **Width Exp. "b"** | **Width Const. "c"** | **Data Source** |
| 1 | IC1-IC3 | 0 | 0.2 | 1.321 | Constant - IC1 and Coefficients and Exponent - calibration |
| 2 | IC3-IC4 | 0 | 0.2 | 2.073 | Constant - IC3 and Coefficients and Exponent - calibration |
| 3 | IC4-IC5 | 0 | 0.2 | 3.886 | Constant - IC4 and Coefficients and Exponent - calibration |
| 4 | IC5-IC6 | 0 | 0.2 | 8.077 | Constant - IC5 and Coefficients and Exponent - calibration |
| 5 | IC6-IC8 | 2.5 | 0.2 | 9.144 | Constant - IC6 and Coefficients and Exponent - calibration |
| 6 | IC8-IC9 | 0 | 0.2 | 7.620 | Constant - IC8 and Coefficients and Exponent - calibration |

| DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|
| **Depth Coeff. "d"** | **Depth Exp. "e"** | **Depth Const. "f"** | **Data Source** |
| 0 | 0.3 | 0.048 | Constant - IC1 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.120 | Constant - IC3 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.253 | Constant - IC4 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.440 | Constant - IC5 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.593 | Constant - IC6 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.628 | Constant - IC8 and Coefficients and Exponent - calibration |

| | | DATA TYPE 11 - INITIAL CONDITIONS | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Temp, deg C** | **Sal, ppt** | **DO, mg/l** | **Data Source** | **Chlorophyll a** | **Data Source** |
| 1 | IC1-IC3 | 27.84 | 0.00 | 3.48 | Average IC1,IC3 Continuous Monitoring | 38.0 | IC1 Lab Data |
| 2 | IC3-IC4 | 25.89 | 0.00 | 4.15 | Average IC3,IC4 Continuous Monitoring | 7.0 | IC3 Lab Data |
| 3 | IC4-IC5 | 25.22 | 0.00 | 4.50 | Average IC4,IC5 Continuous Monitoring | | |
| 4 | IC5-IC6 | 25.57 | 0.00 | 4.38 | Average IC5,IC6 Continuous Monitoring | 0 | IC5 Lab Data |
| 5 | IC6-IC8 | 26.34 | 0.00 | 4.44 | Average IC6,IC8 Continuous Monitoring | | |
| 6 | IC8-IC9 | 27.13 | 0.00 | 3.41 | Average IC8,IC9 Continuous Monitoring | | |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** | **Aerobic BOD Dec Rate (1/day)** | **Data Source** | **BOD SETT RATE (1/day)** | **Data Source** |
| 1 | IC1-IC3 | 11 | Texas Equation | 0.50 | Calibration | 0.0405 | AVG(IC1,IC2,IC3) | 0.20 | Calibration |
| 2 | IC3-IC4 | 11 | Texas Equation | 2.10 | Calibration | 0.0555 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 11 | Texas Equation | 2.25 | Calibration | 0.0640 | AVG(IC4,IC5) | 0.15 | Calibration |
| 4 | IC5-IC6 | 11 | Texas Equation | 1.75 | Calibration | 0.0669 | AVG(IC5,IC6) | 0.15 | Calibration |
| 5 | IC6-IC8 | 11 | Texas Equation | 1.45 | Calibration | 0.0646 | AVG(IC6,IC8) | 0.05 | Calibration |
| 6 | IC8-IC9 | 11 | Texas Equation | 1.50 | Calibration | 0.0611 | IC8 | 0.10 | Calibration |

| DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | IC1-IC3 | 0.0692 | AVG(IC1,IC2,IC3) | 0.30 | Calibration |
| 2 | IC3-IC4 | 0.0634 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 0.0531 | AVG(IC4,IC5) | 0.20 | Calibration |
| 4 | IC5-IC6 | 0.0732 | AVG(IC5,IC6) | 0.20 | Calibration |
| 5 | IC6-IC8 | 0.0904 | AVG(IC6,IC8) | 0.20 | Calibration |
| 6 | IC8-IC9 | 0.0944 | IC8 | 0.20 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | | | DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, deg C** | **Data Source** | **Chl** | **Cond** | **Data Source** |
| 1 | IC1-IC3 | -0.0028 | 0.0000 | Flow Balance Calculation | 27.840 | Average IC1, IC3 Continuous Monitoring | 0 | 0 | Calibration |
| 2 | IC3-IC4 | 0.0000 | 0.0187 | Flow Balance Calculation | 25.890 | Average IC3, IC4 Continuous Monitoring | 0 | 0 | Calibration |
| 3 | IC4-IC5 | 0.0000 | 0.0442 | Flow Balance Calculation | 25.220 | Average IC4, IC5 Continuous Monitoring | 0 | 50 | Calibration |
| 4 | IC5-IC6 | 0.0000 | 0.0000 | Flow Balance Calculation | 25.570 | Average IC5, IC6 Continuous Monitoring | 0 | 50 | Calibration |
| 5 | IC6-IC8 | -0.0079 | 0.0000 | Flow Balance Calculation | 26.340 | Average IC6, IC8 Continuous Monitoring | 0 | 50 | Calibration |
| 6 | IC8-IC9 | 0.0000 | 0.0000 | Flow Balance Calculation | 27.130 | Average IC8, IC9 Continuous Monitoring | 0 | 50 | Calibration |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **DO, mg/l** | **Data Source** | | |
| 1 | IC1-IC3 | 2 | Normal Groundwater DO | | |
| 2 | IC3-IC4 | 2 | Normal Groundwater DO | | |
| 3 | IC4-IC5 | 2 | Normal Groundwater DO | | |
| 4 | IC5-IC6 | 2 | Normal Groundwater DO | | |
| 5 | IC6-IC8 | 2 | Normal Groundwater DO | | |
| 6 | IC8-IC9 | 2 | Normal Groundwater DO | | |

| DATA TYPES 18 - INCREMENTAL DATA FOR CHLOROPHYLL | | | | |
|---|---|---|---|---|
| **Reach** | **Reach Name** | **Chl a, ug/L** | **Data Source** | |
| 1 | IC1-IC3 | 38 | IC1 Lab Data | |
| 2 | IC3-IC4 | 7 | IC3 Lab Data | |
| 3 | IC4-IC5 | | IC4 Lab Data | |
| 4 | IC5-IC6 | 0 | IC5 Lab Data | |
| 5 | IC6-IC8 | | IC6 Lab Data | |
| 6 | IC8-IC9 | | IC8 Lab Data | |

| | DATA TYPE 19 - NONPOINT SOURCES | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Length of Reach, km** | **UCBOD, kg/day** | **NBOD, kg/day** | **Data Source** |
| 1 | IC1-IC3 | 1.30 | 0.0 | 1.00 | Calibration |
| 2 | IC3-IC4 | 6.8 | 0.0 | 0.00 | Calibration |
| 3 | IC4-IC5 | 8.9 | 47.0 | 5.00 | Calibration |
| 4 | IC5-IC6 | 5.1 | 35.0 | 9.00 | Calibration |
| 5 | IC6-IC8 | 15.2 | 105.0 | 45.00 | Calibration |
| 6 | IC8-IC9 | 8.9 | 70.0 | 20.00 | Calibration |

| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Headwater Name** | **Element No.** | **Logical Unit Number** | **Headwater Flow, cms** | **Temp, deg C** | **Salinity** | **Chlorides** | **Conductivity** | **Data Source** |
| Headwater 1 | 1 | 1 | 3.2300 | 29.75 | 0.18 | 29.2 | 368.00 | BP1 Continuous Monitoring - Temp<br>Lab Data - Chlorides<br>Insitu - Salinity and Conductivity |

| DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | | |
|---|---|---|---|---|
| **Headwater Name** | **Dissolved Oxygen, mg/L** | **UCBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| Headwater 1 | 3.27 | 26.3 | 1.51 | IC1 Continuous Monitoring |

| DATA TYPES 22 - HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES | | | | | |
|---|---|---|---|---|---|
| Headwater Name | Chlorophyll a, ug/L | Date Source | | | |
| Headwater 1 | 38 | IC1 Lab Data | | | |

| DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Wasteload / Withdrawal Name | EL # | Flow, cms | Temperature, deg C | Salinity | Conductivity | Data Source | Chlorides | Data Source |
| WINN CORRECTIONAL | 3 | 0.01274 | 30.26 | 0.35 | 680.8 | IN SITU DATA AT IC2 | 76.1 | LAB DATA AT IC2 |
| Redland/Cow Creek | 91 | 0.01869 | 24.29 | 0.03 | 89.1 | IN SITU DATA AT RC1 | 8.6 | LAB DATA AT RC1 |
| Cruie Creek | 239 | 0.03682 | 24.96 | 0.05 | 123.4 | IN SITU DATA AT CC1 | 11.5 | LAB DATA AT CC1 |

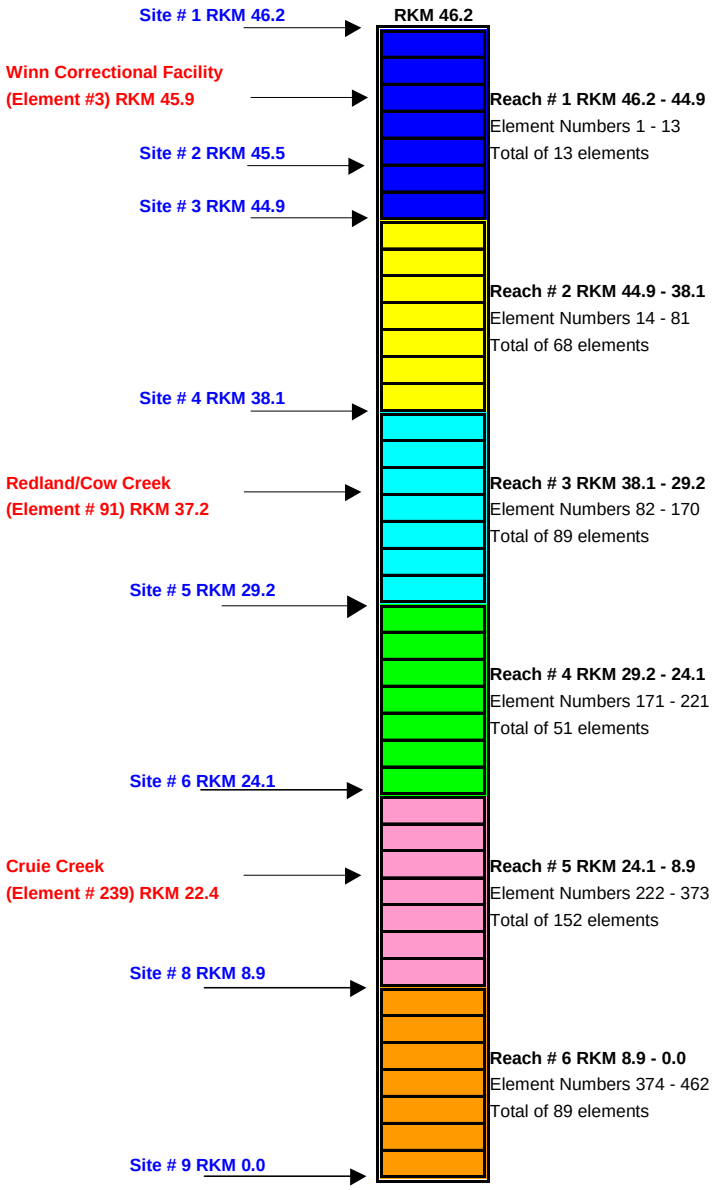
| DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN | | | | | | |
|---|---|---|---|---|---|---|
| Wasteload / Withdrawal Name | EL # | DO, mg/l | Data Source | UCBOD, mg/l | UNBOD, mg/l | Data Source |
| WINN CORRECTIONAL | 3 | 6.86 | IN SITU DATA AT IC2 | 24.58 | 6.93 | LAB DATA AT IC2 |
| Redland/Cow Creek | 91 | 4.00 | IN SITU DATA AT RC1 | 5.81 | 0.70 | LAB DATA AT RC1 |
| Cruie Creek | 239 | 3.31 | IN SITU DATA AT CC1 | 9.32 | 2.72 | LAB DATA AT CC1 |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 27.44 | $^{O}C$ | IC9 Continous Monitoring |
| SALINITY | 0.04 | mg/L | Insitu at IC9 |
| CHLORIDES | 9.00 | ppm | IC9 Lab Data |
| CONDUCTIVITY | 107.80 | umhos/cm | Insitu at IC9 |
| DISSOLVED OXYGEN | 2.30 | mg/L | IC9 Continous Monitoring |
| CBOD | 10.04 | mg/L | IC9 Lab Data |
| NBOD | 1.60 | mg/L | IC9 Lab Data |

# Appendix C – Calibration Model Development

# Appendix C1 – Vector Diagram

# Iatt Creek Model Layout Subsegment 101303



# Appendix C2 – Reach Setup

| **Iatt Creek 101303** | | | | | Modeled Length | Element Length | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Reach # | Description | Headwater Yes/No | Starting modeled Kilometer | Ending modeled Kilometer | kilometers | kilometers | Element Count | Cumulative Elements | Begin Element # | End Element # |
| 1 | Headwater to Site 3 | Yes | 46.2 | 44.9 | 1.3 | 0.100 | 13 | 13 | 1 | 13 |
| 2 | Site 3 to Site 4 | No | 44.9 | 38.1 | 6.8 | 0.100 | 68 | 81 | 14 | 81 |
| 3 | Site 4 to Site 5 | No | 38.1 | 29.2 | 8.9 | 0.100 | 89 | 170 | 82 | 170 |
| 4 | Site 5 to Site 6 | No | 29.2 | 24.1 | 5.1 | 0.100 | 51 | 221 | 171 | 221 |
| 5 | Site 6 to Site 8 | No | 24.1 | 8.9 | 15.2 | 0.100 | 152 | 373 | 222 | 373 |
| 6 | Site 8 to Site 9 | No | 8.9 | 0 | 8.9 | 0.100 | 89 | 462 | 374 | 462 |

# Appendix C3 – Calibration Loading

# Calibration Model Non-Point Load Equivalent Calculations:

| Modeled stream or water body: | Iatt Creek 101303 |
|---|---|

Shaded cells are input values for calculations.

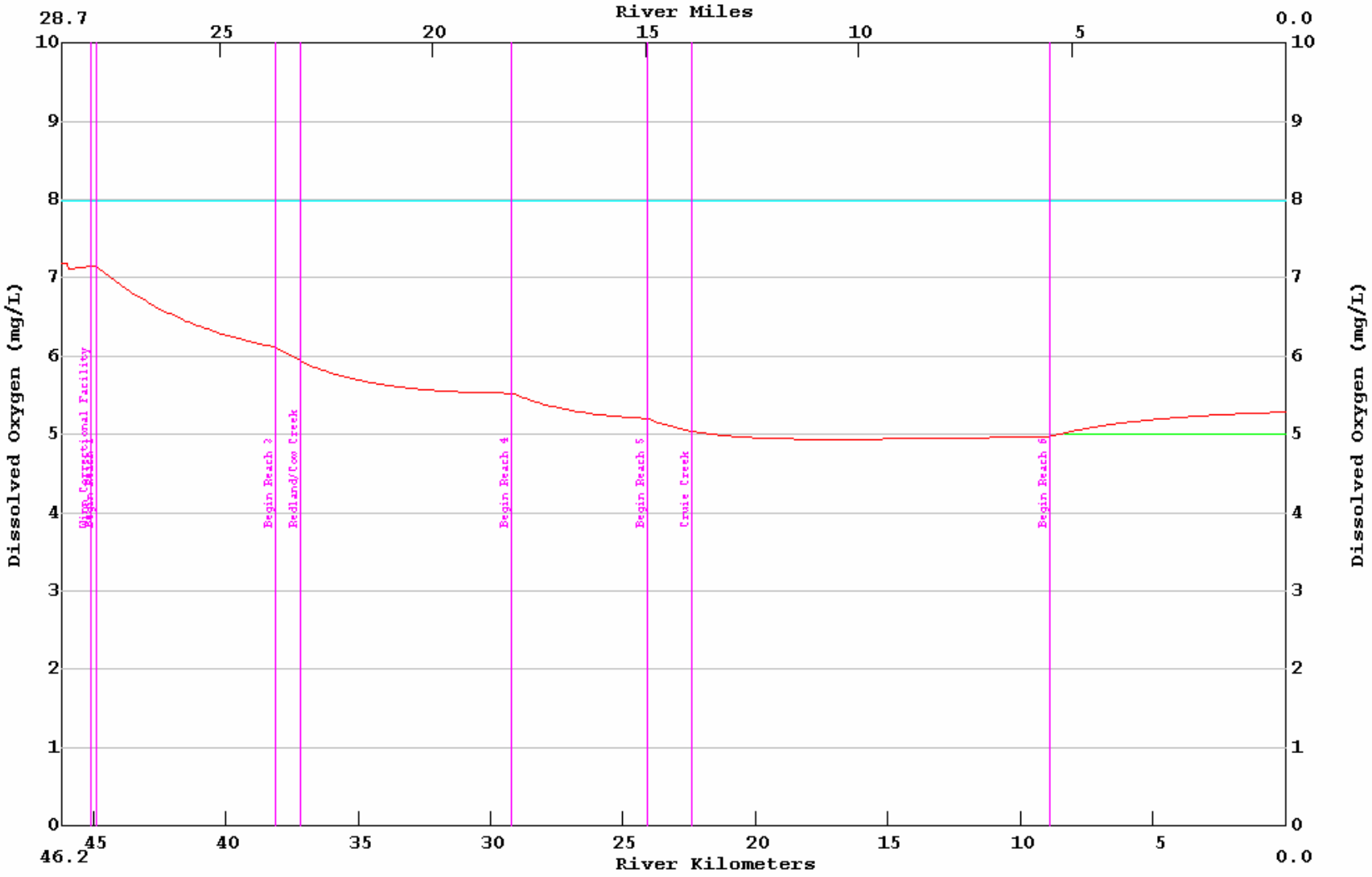
| REACH NUMBER & DESCRIPTION | Calibration Model Reach Length (km) | Calibration Model Average Reach Width (meters) | Calibration Model UCBOD Nonpoint loading (kg/day) | Calibration Model UNBOD Nonpoint loading (kg/day) | Calibration Model UCBOD Nonpoint loading (gm $O_2/m^2$/day) | Calibration Model UNBOD Nonpoint loading (gm $O_2/m^2$/day) | Calibration Model SOD (gm $O_2/m^2$/day) | Calibration Model TOTAL Benthic Load (gm $O_2/m^2$/day) |
|---|---|---|---|---|---|---|---|---|
| | **A** | **B** | **C** | **D** | **E = C / (A x B)** | **F = D / (A x B)** | **G** | **H = E + F + G** |
| 1 - IC1 to IC3 | 1.30 | 1.32 | 0 | 1 | 0.000 | 0.582 | 0.50 | **1.08** |
| 2 - IC3 to IC4 | 6.80 | 2.07 | 0 | 0 | 0.000 | 0.000 | 2.10 | **2.10** |
| 3 - IC4 to IC5 | 8.90 | 3.89 | 47 | 5 | 1.359 | 0.145 | 2.25 | **3.75** |
| 4 - IC5 to IC6 | 5.10 | 8.08 | 35 | 9 | 0.850 | 0.218 | 1.75 | **2.82** |
| 5 - IC6 to IC8 | 15.20 | 9.14 | 105 | 45 | 0.755 | 0.324 | 1.45 | **2.53** |
| 6 - IC8 to IC9 | 8.90 | 7.62 | 70 | 20 | 1.032 | 0.295 | 1.50 | **2.83** |
| | | | | | | | | |

# Appendix D – Projection Model Input and Output Data Sets

# Appendix D1 – Summer Output and Graphs

Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

LA-QUAL Version 6.10 Run at 14:37 on 03/14/2005 File D:\Iatt Creek\Input Files\Iattsum60.txt
IATT CREEK SUMMER RUN WITH 60% REDUCTION min= 4.94 max= 7.19
MAINSTEM



## Iatt Creek 101303 Summer Projection Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK SUMMER RUN WITH 60% REDUCTION
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
```

```
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    26.92          5.00                          38.00
INITIAL     2    26.92          5.00                           7.00
INITIAL     3    26.92          5.00
INITIAL     4    26.92          5.00                           0.00
INITIAL     5    26.92          5.00
INITIAL     6    26.92          5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
```

```
!          ***  -----******----- ******-------*******-------*******-------*******-------***
!                REA    KL                     BOD 1  BOD 1                BOD 2    BOD 2
!           R#   EQ    MIN                SOD  DECAY  SETT                 DECAY    SETT
COEF-1      1  11.00                     0.31 0.0405 0.20
COEF-1      2  11.00                     2.04 0.0555 0.20
COEF-1      3  11.00                     1.67 0.0640 0.15
COEF-1      4  11.00                     1.47 0.0669 0.15
COEF-1      5  11.00                     1.28 0.0646 0.05
COEF-1      6  11.00                     1.26 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          ***  -------*******-------*******-------*******-------
!               NBOD     NBOD
!           R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          ***  ---------*********---------*********---------*********
!           R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  26.920              0         0
INCR-1      2     0.0000  0.0187  26.920              0         0
INCR-1      3     0.0000  0.0442  26.920              0        50
INCR-1      4     0.0000  0.0000  26.920              0        50
INCR-1      5    -0.0079  0.0000  26.920              0        50
INCR-1      6     0.0000  0.0000  26.920              0        50
ENDATA16
```

```
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     35.0     4.0
NONPOINT    4     29.0     8.0
NONPOINT    5    112.0    48.0
NONPOINT    6     59.0    17.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
```

```
HDWTR-1     1  HEADWATER                 0.1954   26.92  0.07     4.8     167.10
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.18    15.93    0.92
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0083    26.92     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0028    26.92     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0028    26.92     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.52         0.67
WSTLD-2   239      5.00    6.94         2.03
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
```

```
WSTLD-3    91
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  26.92
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************** ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Summer Projection Output Data Set

```
LA-QUAL Version 6.10
Louisiana Department of Environmental Quality

Input file is D:\Iatt Creek\Input Files\Iattsum60.txt
Output produced at 14:37 on 03/14/2005

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK SUMMER RUN WITH 60% REDUCTION
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       26.92      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       26.92      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.310     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.040     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.670     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.470     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.280     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.260     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                 DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000       0.000     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

ENDATA14

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

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

ENDATA15
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```
$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

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

INCR-1           1   IC      -0.00280     0.00000     26.92      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     26.92      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     26.92      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.92      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       35.00      4.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       29.00      8.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC      112.00     48.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       59.00     17.00      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
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                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   26.92     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   7.18     15.93      0.92      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00830    0.29308    0.189   26.92     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.00280    0.09887    0.064   26.92     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.00280    0.09887    0.064   26.92     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.52      0.00      0.67      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      6.94      0.00      2.03      0.00      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
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```
WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     26.920     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovlproj.txt                :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
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     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    HEADWATER                                       IATT CREEK WATERSHED MODEL
REACH NO.  1    HEADWATER - SITE 3                              IATT CREEK SUMMER RUN WITH 60% REDUCTION
```

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.19540 | 26.92 | 0.07 | 4.80 | 167.10 | 7.18 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |
| 3 | WSTLD | 0.00830 | 26.92 | 0.35 | 76.10 | 680.80 | 5.00 | 23.00 | 0.00 | 23.00 | 0.00 | 43.00 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.20305 | 4.1 | 3.20234 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.202 |
| 4 | 45.90 | 45.80 | 0.20284 | 4.1 | 3.19894 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.199 |
| 5 | 45.80 | 45.70 | 0.20262 | 4.1 | 3.19554 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.196 |
| 6 | 45.70 | 45.60 | 0.20241 | 4.1 | 3.19215 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.192 |
| 7 | 45.60 | 45.50 | 0.20219 | 4.1 | 3.18875 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.189 |
| 8 | 45.50 | 45.40 | 0.20198 | 4.1 | 3.18535 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.185 |
| 9 | 45.40 | 45.30 | 0.20176 | 4.1 | 3.18196 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.182 |
| 10 | 45.30 | 45.20 | 0.20155 | 4.1 | 3.17856 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.179 |
| 11 | 45.20 | 45.10 | 0.20133 | 4.1 | 3.17516 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.175 |
| 12 | 45.10 | 45.00 | 0.20112 | 4.1 | 3.17177 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.172 |
| 13 | 45.00 | 44.90 | 0.20090 | 4.1 | 3.16837 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.168 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.16808 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 45.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 45.800 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.92 | 0.00 | 7.71 | 188.08 | 7.14 | 16.20 | 0.00 | 16.20 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.92 | 0.00 | 7.71 | 188.08 | 7.14 | 16.20 | 0.00 | 16.20 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.92 | 0.00 | 7.71 | 188.08 | 7.15 | 16.20 | 0.00 | 16.20 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.92 | 0.00 | 7.71 | 188.08 | 7.15 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.16 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK SUMMER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.20090 | 26.92 | 0.00 | 7.71 | 188.08 | 7.16 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 26.92 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.20118 | 4.1 | 0.80871 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 15 | 44.80 | 44.70 | 0.20145 | 4.1 | 0.80982 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 16 | 44.70 | 44.60 | 0.20173 | 4.1 | 0.81092 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 17 | 44.60 | 44.50 | 0.20200 | 4.1 | 0.81203 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 18 | 44.50 | 44.40 | 0.20228 | 4.1 | 0.81313 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 19 | 44.40 | 44.30 | 0.20255 | 4.0 | 0.81424 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 20 | 44.30 | 44.20 | 0.20283 | 4.0 | 0.81534 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 21 | 44.20 | 44.10 | 0.20310 | 4.0 | 0.81645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 22 | 44.10 | 44.00 | 0.20338 | 4.0 | 0.81756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 23 | 44.00 | 43.90 | 0.20365 | 4.0 | 0.81866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.819 |
| 24 | 43.90 | 43.80 | 0.20393 | 4.0 | 0.81977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 25 | 43.80 | 43.70 | 0.20420 | 4.0 | 0.82087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 26 | 43.70 | 43.60 | 0.20448 | 4.0 | 0.82198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 27 | 43.60 | 43.50 | 0.20475 | 4.0 | 0.82308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 28 | 43.50 | 43.40 | 0.20503 | 4.0 | 0.82419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 29 | 43.40 | 43.30 | 0.20530 | 4.0 | 0.82529 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 30 | 43.30 | 43.20 | 0.20558 | 4.0 | 0.82640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |
| 31 | 43.20 | 43.10 | 0.20585 | 4.0 | 0.82750 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |
| 32 | 43.10 | 43.00 | 0.20613 | 4.0 | 0.82861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.829 |
| 33 | 43.00 | 42.90 | 0.20640 | 4.0 | 0.82972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |
| 34 | 42.90 | 42.80 | 0.20668 | 4.0 | 0.83082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 35 | 42.80 | 42.70 | 0.20695 | 4.0 | 0.83193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 36 | 42.70 | 42.60 | 0.20723 | 4.0 | 0.83303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 37 | 42.60 | 42.50 | 0.20750 | 4.0 | 0.83414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 38 | 42.50 | 42.40 | 0.20778 | 3.9 | 0.83524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 39 | 42.40 | 42.30 | 0.20805 | 3.9 | 0.83635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 40 | 42.30 | 42.20 | 0.20833 | 3.9 | 0.83745 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 41 | 42.20 | 42.10 | 0.20860 | 3.9 | 0.83856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 42 | 42.10 | 42.00 | 0.20888 | 3.9 | 0.83967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.840 |
| 43 | 42.00 | 41.90 | 0.20915 | 3.9 | 0.84077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 44 | 41.90 | 41.80 | 0.20943 | 3.9 | 0.84188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 45 | 41.80 | 41.70 | 0.20970 | 3.9 | 0.84298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 46 | 41.70 | 41.60 | 0.20998 | 3.9 | 0.84409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 47 | 41.60 | 41.50 | 0.21025 | 3.9 | 0.84519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 48 | 41.50 | 41.40 | 0.21053 | 3.9 | 0.84630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 49 | 41.40 | 41.30 | 0.21080 | 3.9 | 0.84740 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 50 | 41.30 | 41.20 | 0.21108 | 3.9 | 0.84851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| 51 | 41.20 | 41.10 | 0.21135 | 3.9 | 0.84961 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.850 |
| 52 | 41.10 | 41.00 | 0.21163 | 3.9 | 0.85072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.851 |
| 53 | 41.00 | 40.90 | 0.21190 | 3.9 | 0.85183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.852 |
| 54 | 40.90 | 40.80 | 0.21218 | 3.9 | 0.85293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.853 |
| 55 | 40.80 | 40.70 | 0.21245 | 3.9 | 0.85404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.854 |
| 56 | 40.70 | 40.60 | 0.21273 | 3.9 | 0.85514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.855 |
| 57 | 40.60 | 40.50 | 0.21300 | 3.9 | 0.85625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.856 |
| 58 | 40.50 | 40.40 | 0.21328 | 3.8 | 0.85735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.857 |
| 59 | 40.40 | 40.30 | 0.21355 | 3.8 | 0.85846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.858 |
| 60 | 40.30 | 40.20 | 0.21383 | 3.8 | 0.85956 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.860 |
| 61 | 40.20 | 40.10 | 0.21410 | 3.8 | 0.86067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.861 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | 40.10 | 40.00 | 0.21438 | 3.8 | 0.86177 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.862 |
| 63 | 40.00 | 39.90 | 0.21465 | 3.8 | 0.86288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.863 |
| 64 | 39.90 | 39.80 | 0.21493 | 3.8 | 0.86399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.864 |
| 65 | 39.80 | 39.70 | 0.21520 | 3.8 | 0.86509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.865 |
| 66 | 39.70 | 39.60 | 0.21548 | 3.8 | 0.86620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.866 |
| 67 | 39.60 | 39.50 | 0.21575 | 3.8 | 0.86730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.867 |
| 68 | 39.50 | 39.40 | 0.21603 | 3.8 | 0.86841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.868 |
| 69 | 39.40 | 39.30 | 0.21630 | 3.8 | 0.86951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.870 |
| 70 | 39.30 | 39.20 | 0.21658 | 3.8 | 0.87062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.871 |
| 71 | 39.20 | 39.10 | 0.21685 | 3.8 | 0.87172 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.872 |
| 72 | 39.10 | 39.00 | 0.21713 | 3.8 | 0.87283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.873 |
| 73 | 39.00 | 38.90 | 0.21740 | 3.8 | 0.87394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.874 |
| 74 | 38.90 | 38.80 | 0.21768 | 3.8 | 0.87504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.875 |
| 75 | 38.80 | 38.70 | 0.21795 | 3.8 | 0.87615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.876 |
| 76 | 38.70 | 38.60 | 0.21823 | 3.8 | 0.87725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.877 |
| 77 | 38.60 | 38.50 | 0.21850 | 3.8 | 0.87836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.878 |
| 78 | 38.50 | 38.40 | 0.21878 | 3.7 | 0.87946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.879 |
| 79 | 38.40 | 38.30 | 0.21905 | 3.7 | 0.88057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.881 |
| 80 | 38.30 | 38.20 | 0.21933 | 3.7 | 0.88167 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.882 |
| 81 | 38.20 | 38.10 | 0.21960 | 3.7 | 0.88278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.883 |
| TOT | | | | | | 0.09 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.84519 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 0.10 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 42.800 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 42.700 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 7.98 | 14.10 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.23 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 26.92 | 0.00 | 7.70 | 187.82 | 7.13 | 16.17 | 0.00 | 16.17 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 26.92 | 0.00 | 7.69 | 187.56 | 7.10 | 16.14 | 0.00 | 16.14 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 26.92 | 0.00 | 7.68 | 187.31 | 7.07 | 16.11 | 0.00 | 16.11 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 26.92 | 0.00 | 7.67 | 187.05 | 7.04 | 16.08 | 0.00 | 16.08 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 26.92 | 0.00 | 7.66 | 186.80 | 7.02 | 16.05 | 0.00 | 16.05 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 26.92 | 0.00 | 7.65 | 186.54 | 6.99 | 16.02 | 0.00 | 16.02 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 26.92 | 0.00 | 7.64 | 186.29 | 6.97 | 15.99 | 0.00 | 15.99 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 26.92 | 0.00 | 7.63 | 186.04 | 6.94 | 15.96 | 0.00 | 15.96 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 26.92 | 0.00 | 7.62 | 185.79 | 6.92 | 15.94 | 0.00 | 15.94 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 26.92 | 0.00 | 7.61 | 185.54 | 6.89 | 15.91 | 0.00 | 15.91 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 26.92 | 0.00 | 7.60 | 185.29 | 6.87 | 15.88 | 0.00 | 15.88 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 26.92 | 0.00 | 7.59 | 185.04 | 6.85 | 15.85 | 0.00 | 15.85 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 26.92 | 0.00 | 7.58 | 184.79 | 6.82 | 15.82 | 0.00 | 15.82 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 26.92 | 0.00 | 7.57 | 184.54 | 6.80 | 15.79 | 0.00 | 15.79 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 26.92 | 0.00 | 7.56 | 184.29 | 6.78 | 15.77 | 0.00 | 15.77 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 26.92 | 0.00 | 7.55 | 184.04 | 6.76 | 15.74 | 0.00 | 15.74 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 26.92 | 0.00 | 7.54 | 183.80 | 6.74 | 15.71 | 0.00 | 15.71 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 26.92 | 0.00 | 7.53 | 183.55 | 6.72 | 15.68 | 0.00 | 15.68 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 26.92 | 0.00 | 7.52 | 183.31 | 6.70 | 15.65 | 0.00 | 15.65 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 26.92 | 0.00 | 7.51 | 183.06 | 6.68 | 15.63 | 0.00 | 15.63 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 26.92 | 0.00 | 7.50 | 182.82 | 6.66 | 15.60 | 0.00 | 15.60 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 26.92 | 0.00 | 7.49 | 182.58 | 6.64 | 15.57 | 0.00 | 15.57 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 26.92 | 0.00 | 7.48 | 182.34 | 6.62 | 15.54 | 0.00 | 15.54 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 26.92 | 0.00 | 7.47 | 182.09 | 6.61 | 15.52 | 0.00 | 15.52 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 26.92 | 0.00 | 7.46 | 181.85 | 6.59 | 15.49 | 0.00 | 15.49 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 26.92 | 0.00 | 7.45 | 181.61 | 6.57 | 15.46 | 0.00 | 15.46 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 26.92 | 0.00 | 7.44 | 181.37 | 6.55 | 15.44 | 0.00 | 15.44 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 26.92 | 0.00 | 7.43 | 181.13 | 6.54 | 15.41 | 0.00 | 15.41 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 26.92 | 0.00 | 7.42 | 180.89 | 6.52 | 15.38 | 0.00 | 15.38 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 26.92 | 0.00 | 7.41 | 180.66 | 6.51 | 15.35 | 0.00 | 15.35 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 26.92 | 0.00 | 7.40 | 180.42 | 6.49 | 15.33 | 0.00 | 15.33 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 26.92 | 0.00 | 7.39 | 180.18 | 6.48 | 15.30 | 0.00 | 15.30 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 26.92 | 0.00 | 7.38 | 179.95 | 6.46 | 15.27 | 0.00 | 15.27 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 26.92 | 0.00 | 7.37 | 179.71 | 6.45 | 15.25 | 0.00 | 15.25 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 26.92 | 0.00 | 7.36 | 179.48 | 6.43 | 15.22 | 0.00 | 15.22 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 26.92 | 0.00 | 7.35 | 179.24 | 6.42 | 15.20 | 0.00 | 15.20 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 26.92 | 0.00 | 7.34 | 179.01 | 6.41 | 15.17 | 0.00 | 15.17 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 26.92 | 0.00 | 7.33 | 178.78 | 6.39 | 15.14 | 0.00 | 15.14 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 26.92 | 0.00 | 7.32 | 178.54 | 6.38 | 15.12 | 0.00 | 15.12 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 26.92 | 0.00 | 7.31 | 178.31 | 6.37 | 15.09 | 0.00 | 15.09 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 26.92 | 0.00 | 7.30 | 178.08 | 6.36 | 15.06 | 0.00 | 15.06 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 26.92 | 0.00 | 7.29 | 177.85 | 6.34 | 15.04 | 0.00 | 15.04 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 26.92 | 0.00 | 7.28 | 177.62 | 6.33 | 15.01 | 0.00 | 15.01 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 26.92 | 0.00 | 7.27 | 177.39 | 6.32 | 14.99 | 0.00 | 14.99 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 26.92 | 0.00 | 7.26 | 177.16 | 6.31 | 14.96 | 0.00 | 14.96 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | 40.300 | 26.92 | 0.00 | 7.25 | 176.93 | 6.30 | 14.94 | 0.00 | 14.94 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |
| 60 | 40.200 | 26.92 | 0.00 | 7.25 | 176.71 | 6.29 | 14.91 | 0.00 | 14.91 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 26.92 | 0.00 | 7.24 | 176.48 | 6.28 | 14.89 | 0.00 | 14.89 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 26.92 | 0.00 | 7.23 | 176.25 | 6.27 | 14.86 | 0.00 | 14.86 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 26.92 | 0.00 | 7.22 | 176.03 | 6.26 | 14.84 | 0.00 | 14.84 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 26.92 | 0.00 | 7.21 | 175.80 | 6.25 | 14.81 | 0.00 | 14.81 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 26.92 | 0.00 | 7.20 | 175.58 | 6.24 | 14.78 | 0.00 | 14.78 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 26.92 | 0.00 | 7.19 | 175.35 | 6.23 | 14.76 | 0.00 | 14.76 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 26.92 | 0.00 | 7.18 | 175.13 | 6.22 | 14.73 | 0.00 | 14.73 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 26.92 | 0.00 | 7.17 | 174.91 | 6.21 | 14.71 | 0.00 | 14.71 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 26.92 | 0.00 | 7.16 | 174.69 | 6.20 | 14.69 | 0.00 | 14.69 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 26.92 | 0.00 | 7.15 | 174.46 | 6.19 | 14.66 | 0.00 | 14.66 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 26.92 | 0.00 | 7.14 | 174.24 | 6.19 | 14.64 | 0.00 | 14.64 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 26.92 | 0.00 | 7.14 | 174.02 | 6.18 | 14.61 | 0.00 | 14.61 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 26.92 | 0.00 | 7.13 | 173.80 | 6.17 | 14.59 | 0.00 | 14.59 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 26.92 | 0.00 | 7.12 | 173.58 | 6.16 | 14.56 | 0.00 | 14.56 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 26.92 | 0.00 | 7.11 | 173.36 | 6.15 | 14.54 | 0.00 | 14.54 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 26.92 | 0.00 | 7.10 | 173.14 | 6.15 | 14.51 | 0.00 | 14.51 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 26.92 | 0.00 | 7.09 | 172.93 | 6.14 | 14.49 | 0.00 | 14.49 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 26.92 | 0.00 | 7.08 | 172.71 | 6.13 | 14.47 | 0.00 | 14.47 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 26.92 | 0.00 | 7.07 | 172.49 | 6.12 | 14.44 | 0.00 | 14.44 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 26.92 | 0.00 | 7.06 | 172.28 | 6.12 | 14.42 | 0.00 | 14.42 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 26.92 | 0.00 | 7.05 | 172.06 | 6.11 | 14.39 | 0.00 | 14.39 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK SUMMER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21960 | 26.92 | 0.00 | 7.05 | 172.06 | 6.11 | 14.39 | 0.00 | 14.39 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 26.92 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.00280 | 26.92 | 0.03 | 8.60 | 89.10 | 5.00 | 5.52 | 0.00 | 5.52 | 0.00 | 0.67 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.22010 | 3.7 | 0.22387 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 83 | 38.00 | 37.90 | 0.22059 | 3.7 | 0.22437 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 84 | 37.90 | 37.80 | 0.22109 | 3.7 | 0.22488 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 85 | 37.80 | 37.70 | 0.22159 | 3.7 | 0.22538 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 86 | 37.70 | 37.60 | 0.22208 | 3.7 | 0.22589 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 87 | 37.60 | 37.50 | 0.22258 | 3.7 | 0.22639 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 88 | 37.50 | 37.40 | 0.22308 | 3.7 | 0.22690 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 37.40 | 37.30 | 0.22357 | 3.7 | 0.22740 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 90 | 37.30 | 37.20 | 0.22407 | 3.7 | 0.22791 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 91 | 37.20 | 37.10 | 0.22737 | 4.8 | 0.23126 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 92 | 37.10 | 37.00 | 0.22786 | 4.8 | 0.23177 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 93 | 37.00 | 36.90 | 0.22836 | 4.8 | 0.23227 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 94 | 36.90 | 36.80 | 0.22886 | 4.8 | 0.23278 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 95 | 36.80 | 36.70 | 0.22935 | 4.8 | 0.23328 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 96 | 36.70 | 36.60 | 0.22985 | 4.8 | 0.23379 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 97 | 36.60 | 36.50 | 0.23035 | 4.8 | 0.23429 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 98 | 36.50 | 36.40 | 0.23084 | 4.8 | 0.23480 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 99 | 36.40 | 36.30 | 0.23134 | 4.8 | 0.23530 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 100 | 36.30 | 36.20 | 0.23184 | 4.7 | 0.23581 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 101 | 36.20 | 36.10 | 0.23233 | 4.7 | 0.23631 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 102 | 36.10 | 36.00 | 0.23283 | 4.7 | 0.23682 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 103 | 36.00 | 35.90 | 0.23333 | 4.7 | 0.23732 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 104 | 35.90 | 35.80 | 0.23382 | 4.7 | 0.23783 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 105 | 35.80 | 35.70 | 0.23432 | 4.7 | 0.23833 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 106 | 35.70 | 35.60 | 0.23482 | 4.7 | 0.23884 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 107 | 35.60 | 35.50 | 0.23531 | 4.7 | 0.23934 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 108 | 35.50 | 35.40 | 0.23581 | 4.7 | 0.23985 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 109 | 35.40 | 35.30 | 0.23631 | 4.7 | 0.24035 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 110 | 35.30 | 35.20 | 0.23680 | 4.6 | 0.24086 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 111 | 35.20 | 35.10 | 0.23730 | 4.6 | 0.24136 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 112 | 35.10 | 35.00 | 0.23780 | 4.6 | 0.24187 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 113 | 35.00 | 34.90 | 0.23829 | 4.6 | 0.24237 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 114 | 34.90 | 34.80 | 0.23879 | 4.6 | 0.24288 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 115 | 34.80 | 34.70 | 0.23929 | 4.6 | 0.24338 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 116 | 34.70 | 34.60 | 0.23978 | 4.6 | 0.24389 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 117 | 34.60 | 34.50 | 0.24028 | 4.6 | 0.24439 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 118 | 34.50 | 34.40 | 0.24078 | 4.6 | 0.24490 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 119 | 34.40 | 34.30 | 0.24127 | 4.6 | 0.24541 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 120 | 34.30 | 34.20 | 0.24177 | 4.6 | 0.24591 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 121 | 34.20 | 34.10 | 0.24227 | 4.5 | 0.24642 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 122 | 34.10 | 34.00 | 0.24276 | 4.5 | 0.24692 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 123 | 34.00 | 33.90 | 0.24326 | 4.5 | 0.24743 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 124 | 33.90 | 33.80 | 0.24376 | 4.5 | 0.24793 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 125 | 33.80 | 33.70 | 0.24425 | 4.5 | 0.24844 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 126 | 33.70 | 33.60 | 0.24475 | 4.5 | 0.24894 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 127 | 33.60 | 33.50 | 0.24524 | 4.5 | 0.24945 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 128 | 33.50 | 33.40 | 0.24574 | 4.5 | 0.24995 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 129 | 33.40 | 33.30 | 0.24624 | 4.5 | 0.25046 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 130 | 33.30 | 33.20 | 0.24673 | 4.5 | 0.25096 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 131 | 33.20 | 33.10 | 0.24723 | 4.5 | 0.25147 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 132 | 33.10 | 33.00 | 0.24773 | 4.4 | 0.25197 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 133 | 33.00 | 32.90 | 0.24822 | 4.4 | 0.25248 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 134 | 32.90 | 32.80 | 0.24872 | 4.4 | 0.25298 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 135 | 32.80 | 32.70 | 0.24922 | 4.4 | 0.25349 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 136 | 32.70 | 32.60 | 0.24971 | 4.4 | 0.25399 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 137 | 32.60 | 32.50 | 0.25021 | 4.4 | 0.25450 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 138 | 32.50 | 32.40 | 0.25071 | 4.4 | 0.25500 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 139 | 32.40 | 32.30 | 0.25120 | 4.4 | 0.25551 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 140 | 32.30 | 32.20 | 0.25170 | 4.4 | 0.25601 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | 32.20 | 32.10 | 0.25220 | 4.4 | 0.25652 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 142 | 32.10 | 32.00 | 0.25269 | 4.4 | 0.25702 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 143 | 32.00 | 31.90 | 0.25319 | 4.3 | 0.25753 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 144 | 31.90 | 31.80 | 0.25369 | 4.3 | 0.25803 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 145 | 31.80 | 31.70 | 0.25418 | 4.3 | 0.25854 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 146 | 31.70 | 31.60 | 0.25468 | 4.3 | 0.25904 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 147 | 31.60 | 31.50 | 0.25518 | 4.3 | 0.25955 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 148 | 31.50 | 31.40 | 0.25567 | 4.3 | 0.26005 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 149 | 31.40 | 31.30 | 0.25617 | 4.3 | 0.26056 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 150 | 31.30 | 31.20 | 0.25667 | 4.3 | 0.26106 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 151 | 31.20 | 31.10 | 0.25716 | 4.3 | 0.26157 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 152 | 31.10 | 31.00 | 0.25766 | 4.3 | 0.26207 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 153 | 31.00 | 30.90 | 0.25816 | 4.3 | 0.26258 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 154 | 30.90 | 30.80 | 0.25865 | 4.3 | 0.26308 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 155 | 30.80 | 30.70 | 0.25915 | 4.2 | 0.26359 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 156 | 30.70 | 30.60 | 0.25965 | 4.2 | 0.26409 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 157 | 30.60 | 30.50 | 0.26014 | 4.2 | 0.26460 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 158 | 30.50 | 30.40 | 0.26064 | 4.2 | 0.26511 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 159 | 30.40 | 30.30 | 0.26114 | 4.2 | 0.26561 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 160 | 30.30 | 30.20 | 0.26163 | 4.2 | 0.26612 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 161 | 30.20 | 30.10 | 0.26213 | 4.2 | 0.26662 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 162 | 30.10 | 30.00 | 0.26263 | 4.2 | 0.26713 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 163 | 30.00 | 29.90 | 0.26312 | 4.2 | 0.26763 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 164 | 29.90 | 29.80 | 0.26362 | 4.2 | 0.26814 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 165 | 29.80 | 29.70 | 0.26412 | 4.2 | 0.26864 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 166 | 29.70 | 29.60 | 0.26461 | 4.2 | 0.26915 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 167 | 29.60 | 29.50 | 0.26511 | 4.2 | 0.26965 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 168 | 29.50 | 29.40 | 0.26561 | 4.1 | 0.27016 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 169 | 29.40 | 29.30 | 0.26610 | 4.1 | 0.27066 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| 170 | 29.30 | 29.20 | 0.26660 | 4.1 | 0.27117 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| TOT | | | | | | 0.42 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.24792 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.51 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92 | 37.000 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 36.900 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 144 | 31.800 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 31.700 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.49 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 26.92 | 0.00 | 7.04 | 171.78 | 6.09 | 14.36 | 0.00 | 14.36 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 26.92 | 0.00 | 7.02 | 171.51 | 6.07 | 14.33 | 0.00 | 14.33 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 26.92 | 0.00 | 7.01 | 171.24 | 6.05 | 14.30 | 0.00 | 14.30 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 26.92 | 0.00 | 6.99 | 170.97 | 6.03 | 14.27 | 0.00 | 14.27 | 0.00 | 2.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 26.92 | 0.00 | 6.98 | 170.70 | 6.01 | 14.24 | 0.00 | 14.24 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 26.92 | 0.00 | 6.96 | 170.43 | 5.99 | 14.21 | 0.00 | 14.21 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 26.92 | 0.00 | 6.94 | 170.16 | 5.98 | 14.18 | 0.00 | 14.18 | 0.00 | 2.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 26.92 | 0.00 | 6.93 | 169.89 | 5.96 | 14.15 | 0.00 | 14.15 | 0.00 | 2.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 26.92 | 0.00 | 6.91 | 169.63 | 5.94 | 14.12 | 0.00 | 14.12 | 0.00 | 2.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 26.92 | 0.00 | 6.92 | 168.37 | 5.92 | 13.98 | 0.00 | 13.98 | 0.00 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 26.92 | 0.00 | 6.90 | 168.11 | 5.90 | 13.95 | 0.00 | 13.95 | 0.00 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 26.92 | 0.00 | 6.89 | 167.86 | 5.89 | 13.92 | 0.00 | 13.92 | 0.00 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 26.92 | 0.00 | 6.87 | 167.60 | 5.88 | 13.90 | 0.00 | 13.90 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 26.92 | 0.00 | 6.86 | 167.35 | 5.86 | 13.87 | 0.00 | 13.87 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96 | 36.600 | 26.92 | 0.00 | 6.84 | 167.09 | 5.85 | 13.84 | 0.00 | 13.84 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 97 | 36.500 | 26.92 | 0.00 | 6.83 | 166.84 | 5.84 | 13.81 | 0.00 | 13.81 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 26.92 | 0.00 | 6.82 | 166.59 | 5.83 | 13.78 | 0.00 | 13.78 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 26.92 | 0.00 | 6.80 | 166.34 | 5.81 | 13.75 | 0.00 | 13.75 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 26.92 | 0.00 | 6.79 | 166.09 | 5.80 | 13.73 | 0.00 | 13.73 | 0.00 | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 26.92 | 0.00 | 6.77 | 165.84 | 5.79 | 13.70 | 0.00 | 13.70 | 0.00 | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 26.92 | 0.00 | 6.76 | 165.59 | 5.78 | 13.67 | 0.00 | 13.67 | 0.00 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 26.92 | 0.00 | 6.74 | 165.35 | 5.77 | 13.64 | 0.00 | 13.64 | 0.00 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 26.92 | 0.00 | 6.73 | 165.10 | 5.76 | 13.62 | 0.00 | 13.62 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 26.92 | 0.00 | 6.71 | 164.86 | 5.75 | 13.59 | 0.00 | 13.59 | 0.00 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 26.92 | 0.00 | 6.70 | 164.62 | 5.74 | 13.56 | 0.00 | 13.56 | 0.00 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 26.92 | 0.00 | 6.69 | 164.38 | 5.73 | 13.54 | 0.00 | 13.54 | 0.00 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 26.92 | 0.00 | 6.67 | 164.13 | 5.73 | 13.51 | 0.00 | 13.51 | 0.00 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 26.92 | 0.00 | 6.66 | 163.89 | 5.72 | 13.48 | 0.00 | 13.48 | 0.00 | 2.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 26.92 | 0.00 | 6.64 | 163.66 | 5.71 | 13.46 | 0.00 | 13.46 | 0.00 | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 26.92 | 0.00 | 6.63 | 163.42 | 5.70 | 13.43 | 0.00 | 13.43 | 0.00 | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 26.92 | 0.00 | 6.62 | 163.18 | 5.69 | 13.41 | 0.00 | 13.41 | 0.00 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 26.92 | 0.00 | 6.60 | 162.94 | 5.69 | 13.38 | 0.00 | 13.38 | 0.00 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 26.92 | 0.00 | 6.59 | 162.71 | 5.68 | 13.36 | 0.00 | 13.36 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 26.92 | 0.00 | 6.57 | 162.48 | 5.67 | 13.33 | 0.00 | 13.33 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 26.92 | 0.00 | 6.56 | 162.24 | 5.67 | 13.30 | 0.00 | 13.30 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 26.92 | 0.00 | 6.55 | 162.01 | 5.66 | 13.28 | 0.00 | 13.28 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 26.92 | 0.00 | 6.53 | 161.78 | 5.65 | 13.25 | 0.00 | 13.25 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 26.92 | 0.00 | 6.52 | 161.55 | 5.65 | 13.23 | 0.00 | 13.23 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 26.92 | 0.00 | 6.51 | 161.32 | 5.64 | 13.20 | 0.00 | 13.20 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 26.92 | 0.00 | 6.49 | 161.09 | 5.64 | 13.18 | 0.00 | 13.18 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 26.92 | 0.00 | 6.48 | 160.87 | 5.63 | 13.16 | 0.00 | 13.16 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 26.92 | 0.00 | 6.47 | 160.64 | 5.63 | 13.13 | 0.00 | 13.13 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 26.92 | 0.00 | 6.45 | 160.41 | 5.62 | 13.11 | 0.00 | 13.11 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 26.92 | 0.00 | 6.44 | 160.19 | 5.62 | 13.08 | 0.00 | 13.08 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 26.92 | 0.00 | 6.43 | 159.97 | 5.61 | 13.06 | 0.00 | 13.06 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 26.92 | 0.00 | 6.42 | 159.74 | 5.61 | 13.03 | 0.00 | 13.03 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 26.92 | 0.00 | 6.40 | 159.52 | 5.60 | 13.01 | 0.00 | 13.01 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 26.92 | 0.00 | 6.39 | 159.30 | 5.60 | 12.99 | 0.00 | 12.99 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 26.92 | 0.00 | 6.38 | 159.08 | 5.60 | 12.96 | 0.00 | 12.96 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 26.92 | 0.00 | 6.36 | 158.86 | 5.59 | 12.94 | 0.00 | 12.94 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 26.92 | 0.00 | 6.35 | 158.64 | 5.59 | 12.92 | 0.00 | 12.92 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 26.92 | 0.00 | 6.34 | 158.43 | 5.59 | 12.89 | 0.00 | 12.89 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 26.92 | 0.00 | 6.33 | 158.21 | 5.58 | 12.87 | 0.00 | 12.87 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 26.92 | 0.00 | 6.31 | 157.99 | 5.58 | 12.85 | 0.00 | 12.85 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 26.92 | 0.00 | 6.30 | 157.78 | 5.58 | 12.82 | 0.00 | 12.82 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 26.92 | 0.00 | 6.29 | 157.56 | 5.57 | 12.80 | 0.00 | 12.80 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 26.92 | 0.00 | 6.28 | 157.35 | 5.57 | 12.78 | 0.00 | 12.78 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 26.92 | 0.00 | 6.26 | 157.14 | 5.57 | 12.76 | 0.00 | 12.76 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 26.92 | 0.00 | 6.25 | 156.93 | 5.56 | 12.73 | 0.00 | 12.73 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 26.92 | 0.00 | 6.24 | 156.72 | 5.56 | 12.71 | 0.00 | 12.71 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 26.92 | 0.00 | 6.23 | 156.51 | 5.56 | 12.69 | 0.00 | 12.69 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 26.92 | 0.00 | 6.21 | 156.30 | 5.56 | 12.67 | 0.00 | 12.67 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 26.92 | 0.00 | 6.20 | 156.09 | 5.56 | 12.65 | 0.00 | 12.65 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 26.92 | 0.00 | 6.19 | 155.88 | 5.55 | 12.62 | 0.00 | 12.62 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 26.92 | 0.00 | 6.18 | 155.68 | 5.55 | 12.60 | 0.00 | 12.60 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 26.92 | 0.00 | 6.17 | 155.47 | 5.55 | 12.58 | 0.00 | 12.58 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 31.400 | 26.92 | 0.00 | 6.15 | 155.27 | 5.55 | 12.56 | 0.00 | 12.56 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 149 | 31.300 | 26.92 | 0.00 | 6.14 | 155.06 | 5.55 | 12.54 | 0.00 | 12.54 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 26.92 | 0.00 | 6.13 | 154.86 | 5.54 | 12.52 | 0.00 | 12.52 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 26.92 | 0.00 | 6.12 | 154.66 | 5.54 | 12.50 | 0.00 | 12.50 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 26.92 | 0.00 | 6.11 | 154.45 | 5.54 | 12.48 | 0.00 | 12.48 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 26.92 | 0.00 | 6.09 | 154.25 | 5.54 | 12.45 | 0.00 | 12.45 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 26.92 | 0.00 | 6.08 | 154.05 | 5.54 | 12.43 | 0.00 | 12.43 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 26.92 | 0.00 | 6.07 | 153.85 | 5.54 | 12.41 | 0.00 | 12.41 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 26.92 | 0.00 | 6.06 | 153.66 | 5.54 | 12.39 | 0.00 | 12.39 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 26.92 | 0.00 | 6.05 | 153.46 | 5.53 | 12.37 | 0.00 | 12.37 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 26.92 | 0.00 | 6.04 | 153.26 | 5.53 | 12.35 | 0.00 | 12.35 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 26.92 | 0.00 | 6.02 | 153.06 | 5.53 | 12.33 | 0.00 | 12.33 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 26.92 | 0.00 | 6.01 | 152.87 | 5.53 | 12.31 | 0.00 | 12.31 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 26.92 | 0.00 | 6.00 | 152.67 | 5.53 | 12.29 | 0.00 | 12.29 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 26.92 | 0.00 | 5.99 | 152.48 | 5.53 | 12.27 | 0.00 | 12.27 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 26.92 | 0.00 | 5.98 | 152.29 | 5.53 | 12.25 | 0.00 | 12.25 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 26.92 | 0.00 | 5.97 | 152.09 | 5.53 | 12.23 | 0.00 | 12.23 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 26.92 | 0.00 | 5.96 | 151.90 | 5.53 | 12.21 | 0.00 | 12.21 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 26.92 | 0.00 | 5.95 | 151.71 | 5.53 | 12.19 | 0.00 | 12.19 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 26.92 | 0.00 | 5.93 | 151.52 | 5.53 | 12.17 | 0.00 | 12.17 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 26.92 | 0.00 | 5.92 | 151.33 | 5.53 | 12.15 | 0.00 | 12.15 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 26.92 | 0.00 | 5.91 | 151.14 | 5.53 | 12.13 | 0.00 | 12.13 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.53 | 12.11 | 0.00 | 12.11 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK SUMMER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 5.53 | 12.11 | 0.00 | 12.11 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 172 | 29.10 | 29.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 173 | 29.00 | 28.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 174 | 28.90 | 28.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 175 | 28.80 | 28.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 176 | 28.70 | 28.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 177 | 28.60 | 28.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 178 | 28.50 | 28.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 179 | 28.40 | 28.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180 | 28.30 | 28.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 181 | 28.20 | 28.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 182 | 28.10 | 28.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 183 | 28.00 | 27.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 184 | 27.90 | 27.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 185 | 27.80 | 27.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 186 | 27.70 | 27.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 187 | 27.60 | 27.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 188 | 27.50 | 27.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 189 | 27.40 | 27.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 190 | 27.30 | 27.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 191 | 27.20 | 27.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 192 | 27.10 | 27.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 193 | 27.00 | 26.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 194 | 26.90 | 26.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 195 | 26.80 | 26.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 196 | 26.70 | 26.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 197 | 26.60 | 26.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 198 | 26.50 | 26.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 199 | 26.40 | 26.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 200 | 26.30 | 26.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 201 | 26.20 | 26.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 202 | 26.10 | 26.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 203 | 26.00 | 25.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 204 | 25.90 | 25.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 205 | 25.80 | 25.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 206 | 25.70 | 25.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 207 | 25.60 | 25.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 208 | 25.50 | 25.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 209 | 25.40 | 25.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 210 | 25.30 | 25.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 211 | 25.20 | 25.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 212 | 25.10 | 25.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 213 | 25.00 | 24.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 214 | 24.90 | 24.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 215 | 24.80 | 24.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 216 | 24.70 | 24.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 217 | 24.60 | 24.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 218 | 24.50 | 24.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 219 | 24.40 | 24.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 220 | 24.30 | 24.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 221 | 24.20 | 24.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| TOT | | | | | | 0.79 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.07502 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.30 | | | | | | | | | |

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

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

| | | mg/L | 1/da | 1/da | 1/da | 1/da | 1/da | 1/da | 1/da | * | * | * | 1/da | 1/da | 1/da | * | 1/da | * | ** | ** | 1/da | 1/da | 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 24.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.98 | 0.07 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.47 | | | 0.07 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.51 | 12.09 | 0.00 | 12.09 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.50 | 12.06 | 0.00 | 12.06 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.48 | 12.04 | 0.00 | 12.04 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.47 | 12.01 | 0.00 | 12.01 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.46 | 11.99 | 0.00 | 11.99 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.45 | 11.96 | 0.00 | 11.96 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.44 | 11.94 | 0.00 | 11.94 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.42 | 11.91 | 0.00 | 11.91 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.41 | 11.89 | 0.00 | 11.89 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.40 | 11.87 | 0.00 | 11.87 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.39 | 11.84 | 0.00 | 11.84 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.38 | 11.82 | 0.00 | 11.82 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.38 | 11.79 | 0.00 | 11.79 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.37 | 11.77 | 0.00 | 11.77 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.36 | 11.74 | 0.00 | 11.74 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.35 | 11.72 | 0.00 | 11.72 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.34 | 11.70 | 0.00 | 11.70 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.34 | 11.67 | 0.00 | 11.67 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.33 | 11.65 | 0.00 | 11.65 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.32 | 11.63 | 0.00 | 11.63 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.31 | 11.60 | 0.00 | 11.60 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.31 | 11.58 | 0.00 | 11.58 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.30 | 11.56 | 0.00 | 11.56 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.30 | 11.53 | 0.00 | 11.53 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.29 | 11.51 | 0.00 | 11.51 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.28 | 11.49 | 0.00 | 11.49 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.28 | 11.46 | 0.00 | 11.46 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.44 | 0.00 | 11.44 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.42 | 0.00 | 11.42 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.40 | 0.00 | 11.40 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.26 | 11.37 | 0.00 | 11.37 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.26 | 11.35 | 0.00 | 11.35 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.33 | 0.00 | 11.33 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.31 | 0.00 | 11.31 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.28 | 0.00 | 11.28 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.24 | 11.26 | 0.00 | 11.26 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.24 | 11.24 | 0.00 | 11.24 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.22 | 0.00 | 11.22 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.20 | 0.00 | 11.20 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.18 | 0.00 | 11.18 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 211 | 25.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.15 | 0.00 | 11.15 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 212 | 25.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.13 | 0.00 | 11.13 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.11 | 0.00 | 11.11 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.09 | 0.00 | 11.09 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.07 | 0.00 | 11.07 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.05 | 0.00 | 11.05 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.03 | 0.00 | 11.03 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.01 | 0.00 | 11.01 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 10.98 | 0.00 | 10.98 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 10.96 | 0.00 | 10.96 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.20 | 10.94 | 0.00 | 10.94 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK SUMMER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 5.20 | 10.94 | 0.00 | 10.94 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.00280 | 26.92 | 0.05 | 11.50 | 123.40 | 5.00 | 6.94 | 0.00 | 6.94 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.26655 | 4.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 223 | 24.00 | 23.90 | 0.26650 | 4.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 224 | 23.90 | 23.80 | 0.26644 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 225 | 23.80 | 23.70 | 0.26639 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 226 | 23.70 | 23.60 | 0.26634 | 4.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 227 | 23.60 | 23.50 | 0.26629 | 4.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 228 | 23.50 | 23.40 | 0.26624 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 229 | 23.40 | 23.30 | 0.26618 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 230 | 23.30 | 23.20 | 0.26613 | 4.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 231 | 23.20 | 23.10 | 0.26608 | 4.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 232 | 23.10 | 23.00 | 0.26603 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 233 | 23.00 | 22.90 | 0.26598 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 234 | 22.90 | 22.80 | 0.26592 | 4.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 235 | 22.80 | 22.70 | 0.26587 | 4.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 236 | 22.70 | 22.60 | 0.26582 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 237 | 22.60 | 22.50 | 0.26577 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 238 | 22.50 | 22.40 | 0.26572 | 4.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 239 | 22.40 | 22.30 | 0.26846 | 5.1 | 0.04091 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 240 | 22.30 | 22.20 | 0.26841 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 22.20 | 22.10 | 0.26836 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.57 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 242 | 22.10 | 22.00 | 0.26831 | 5.1 | 0.04089 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.56 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 243 | 22.00 | 21.90 | 0.26826 | 5.1 | 0.04088 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 244 | 21.90 | 21.80 | 0.26820 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 245 | 21.80 | 21.70 | 0.26815 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.54 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 246 | 21.70 | 21.60 | 0.26810 | 5.1 | 0.04086 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.53 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 247 | 21.60 | 21.50 | 0.26805 | 5.1 | 0.04085 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 248 | 21.50 | 21.40 | 0.26800 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 249 | 21.40 | 21.30 | 0.26794 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.51 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 250 | 21.30 | 21.20 | 0.26789 | 5.1 | 0.04083 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.50 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 251 | 21.20 | 21.10 | 0.26784 | 5.1 | 0.04082 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 252 | 21.10 | 21.00 | 0.26779 | 5.1 | 0.04081 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 253 | 21.00 | 20.90 | 0.26774 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.48 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 254 | 20.90 | 20.80 | 0.26768 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.47 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 255 | 20.80 | 20.70 | 0.26763 | 5.1 | 0.04079 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 256 | 20.70 | 20.60 | 0.26758 | 5.1 | 0.04078 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 257 | 20.60 | 20.50 | 0.26753 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.45 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 258 | 20.50 | 20.40 | 0.26748 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 259 | 20.40 | 20.30 | 0.26742 | 5.1 | 0.04076 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 260 | 20.30 | 20.20 | 0.26737 | 5.1 | 0.04075 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.43 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 261 | 20.20 | 20.10 | 0.26732 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.42 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 262 | 20.10 | 20.00 | 0.26727 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 263 | 20.00 | 19.90 | 0.26722 | 5.1 | 0.04073 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 264 | 19.90 | 19.80 | 0.26716 | 5.1 | 0.04072 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.40 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 265 | 19.80 | 19.70 | 0.26711 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.39 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 266 | 19.70 | 19.60 | 0.26706 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 267 | 19.60 | 19.50 | 0.26701 | 5.1 | 0.04070 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 268 | 19.50 | 19.40 | 0.26696 | 5.1 | 0.04069 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.37 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 269 | 19.40 | 19.30 | 0.26691 | 5.1 | 0.04068 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.36 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 270 | 19.30 | 19.20 | 0.26685 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 271 | 19.20 | 19.10 | 0.26680 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 272 | 19.10 | 19.00 | 0.26675 | 5.1 | 0.04066 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.34 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 273 | 19.00 | 18.90 | 0.26670 | 5.1 | 0.04065 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.33 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 274 | 18.90 | 18.80 | 0.26665 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 275 | 18.80 | 18.70 | 0.26659 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 276 | 18.70 | 18.60 | 0.26654 | 5.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 277 | 18.60 | 18.50 | 0.26649 | 5.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 278 | 18.50 | 18.40 | 0.26644 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 279 | 18.40 | 18.30 | 0.26639 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 280 | 18.30 | 18.20 | 0.26633 | 5.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 281 | 18.20 | 18.10 | 0.26628 | 5.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 282 | 18.10 | 18.00 | 0.26623 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 283 | 18.00 | 17.90 | 0.26618 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 284 | 17.90 | 17.80 | 0.26613 | 5.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 285 | 17.80 | 17.70 | 0.26607 | 5.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 286 | 17.70 | 17.60 | 0.26602 | 5.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 287 | 17.60 | 17.50 | 0.26597 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 288 | 17.50 | 17.40 | 0.26592 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 289 | 17.40 | 17.30 | 0.26587 | 5.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 290 | 17.30 | 17.20 | 0.26581 | 5.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 291 | 17.20 | 17.10 | 0.26576 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 292 | 17.10 | 17.00 | 0.26571 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 293 | 17.00 | 16.90 | 0.26566 | 5.1 | 0.04050 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.18 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 294 | 16.90 | 16.80 | 0.26561 | 5.1 | 0.04049 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 295 | 16.80 | 16.70 | 0.26555 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 296 | 16.70 | 16.60 | 0.26550 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.16 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 297 | 16.60 | 16.50 | 0.26545 | 5.1 | 0.04047 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.15 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 298 | 16.50 | 16.40 | 0.26540 | 5.1 | 0.04046 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 299 | 16.40 | 16.30 | 0.26535 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 300 | 16.30 | 16.20 | 0.26529 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.13 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 301 | 16.20 | 16.10 | 0.26524 | 5.1 | 0.04044 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.12 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 302 | 16.10 | 16.00 | 0.26519 | 5.1 | 0.04043 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 303 | 16.00 | 15.90 | 0.26514 | 5.1 | 0.04042 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 304 | 15.90 | 15.80 | 0.26509 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.10 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 305 | 15.80 | 15.70 | 0.26503 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.09 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 306 | 15.70 | 15.60 | 0.26498 | 5.1 | 0.04040 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 307 | 15.60 | 15.50 | 0.26493 | 5.1 | 0.04039 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 308 | 15.50 | 15.40 | 0.26488 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.07 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 309 | 15.40 | 15.30 | 0.26483 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.06 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 310 | 15.30 | 15.20 | 0.26477 | 5.1 | 0.04037 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 311 | 15.20 | 15.10 | 0.26472 | 5.1 | 0.04036 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 312 | 15.10 | 15.00 | 0.26467 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.04 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 313 | 15.00 | 14.90 | 0.26462 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.03 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 314 | 14.90 | 14.80 | 0.26457 | 5.1 | 0.04034 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 315 | 14.80 | 14.70 | 0.26451 | 5.1 | 0.04033 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 316 | 14.70 | 14.60 | 0.26446 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.01 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 317 | 14.60 | 14.50 | 0.26441 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.00 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 318 | 14.50 | 14.40 | 0.26436 | 5.1 | 0.04031 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.99 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 319 | 14.40 | 14.30 | 0.26431 | 5.1 | 0.04030 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 320 | 14.30 | 14.20 | 0.26425 | 5.1 | 0.04029 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 321 | 14.20 | 14.10 | 0.26420 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.97 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 322 | 14.10 | 14.00 | 0.26415 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.96 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 323 | 14.00 | 13.90 | 0.26410 | 5.1 | 0.04027 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 324 | 13.90 | 13.80 | 0.26405 | 5.1 | 0.04026 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 325 | 13.80 | 13.70 | 0.26399 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.94 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 326 | 13.70 | 13.60 | 0.26394 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.93 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 327 | 13.60 | 13.50 | 0.26389 | 5.1 | 0.04024 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 328 | 13.50 | 13.40 | 0.26384 | 5.1 | 0.04023 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 329 | 13.40 | 13.30 | 0.26379 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.91 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 330 | 13.30 | 13.20 | 0.26373 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.90 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 331 | 13.20 | 13.10 | 0.26368 | 5.1 | 0.04021 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 332 | 13.10 | 13.00 | 0.26363 | 5.1 | 0.04020 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 333 | 13.00 | 12.90 | 0.26358 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.88 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 334 | 12.90 | 12.80 | 0.26353 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.87 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 335 | 12.80 | 12.70 | 0.26347 | 5.1 | 0.04018 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 336 | 12.70 | 12.60 | 0.26342 | 5.1 | 0.04017 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 337 | 12.60 | 12.50 | 0.26337 | 5.1 | 0.04016 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.85 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 338 | 12.50 | 12.40 | 0.26332 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.84 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 339 | 12.40 | 12.30 | 0.26327 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 340 | 12.30 | 12.20 | 0.26321 | 5.1 | 0.04014 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 341 | 12.20 | 12.10 | 0.26316 | 5.1 | 0.04013 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.82 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 342 | 12.10 | 12.00 | 0.26311 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.81 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 343 | 12.00 | 11.90 | 0.26306 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 344 | 11.90 | 11.80 | 0.26301 | 5.1 | 0.04011 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 11.80 | 11.70 | 0.26295 | 5.1 | 0.04010 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.79 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 346 | 11.70 | 11.60 | 0.26290 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.78 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 347 | 11.60 | 11.50 | 0.26285 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 348 | 11.50 | 11.40 | 0.26280 | 5.1 | 0.04008 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 349 | 11.40 | 11.30 | 0.26275 | 5.1 | 0.04007 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.76 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 350 | 11.30 | 11.20 | 0.26270 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.75 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 351 | 11.20 | 11.10 | 0.26264 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 352 | 11.10 | 11.00 | 0.26259 | 5.1 | 0.04005 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 353 | 11.00 | 10.90 | 0.26254 | 5.1 | 0.04004 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.73 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 354 | 10.90 | 10.80 | 0.26249 | 5.1 | 0.04003 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.72 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 355 | 10.80 | 10.70 | 0.26244 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 356 | 10.70 | 10.60 | 0.26238 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 357 | 10.60 | 10.50 | 0.26233 | 5.1 | 0.04001 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.70 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 358 | 10.50 | 10.40 | 0.26228 | 5.1 | 0.04000 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.69 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 359 | 10.40 | 10.30 | 0.26223 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 360 | 10.30 | 10.20 | 0.26218 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 361 | 10.20 | 10.10 | 0.26212 | 5.1 | 0.03998 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.67 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 362 | 10.10 | 10.00 | 0.26207 | 5.1 | 0.03997 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.66 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 363 | 10.00 | 9.90 | 0.26202 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.65 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 364 | 9.90 | 9.80 | 0.26197 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 365 | 9.80 | 9.70 | 0.26192 | 5.1 | 0.03995 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 366 | 9.70 | 9.60 | 0.26186 | 5.1 | 0.03994 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.63 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 367 | 9.60 | 9.50 | 0.26181 | 5.1 | 0.03993 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.62 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 368 | 9.50 | 9.40 | 0.26176 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 369 | 9.40 | 9.30 | 0.26171 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 370 | 9.30 | 9.20 | 0.26166 | 5.1 | 0.03991 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.60 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 371 | 9.20 | 9.10 | 0.26160 | 5.1 | 0.03990 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.59 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 372 | 9.10 | 9.00 | 0.26155 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 373 | 9.00 | 8.90 | 0.26150 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| TOT | | | | | | 4.35 | | | 99699.49 | 168127.31 | | | | | |
| AVG | | | | | 0.04042 | | 0.59 | 11.06 | | | 6.56 | | | | |
| CUM | | | | | | 5.65 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | 22.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 22.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 285 | 17.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 286 | 17.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 12.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 338 | 12.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.28 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.19 | 10.93 | 0.00 | 10.93 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.18 | 10.92 | 0.00 | 10.92 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.17 | 10.90 | 0.00 | 10.90 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.15 | 10.89 | 0.00 | 10.89 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 226 | 23.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.14 | 10.87 | 0.00 | 10.87 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 227 | 23.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.13 | 10.86 | 0.00 | 10.86 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.12 | 10.85 | 0.00 | 10.85 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.11 | 10.83 | 0.00 | 10.83 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.10 | 10.82 | 0.00 | 10.82 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.09 | 10.81 | 0.00 | 10.81 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.08 | 10.79 | 0.00 | 10.79 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.08 | 10.78 | 0.00 | 10.78 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.07 | 10.77 | 0.00 | 10.77 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.06 | 10.75 | 0.00 | 10.75 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.05 | 10.74 | 0.00 | 10.74 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.05 | 10.73 | 0.00 | 10.73 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.04 | 10.71 | 0.00 | 10.71 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 10.66 | 0.00 | 10.66 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 10.65 | 0.00 | 10.65 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 10.64 | 0.00 | 10.64 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 10.62 | 0.00 | 10.62 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 10.61 | 0.00 | 10.61 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 10.60 | 0.00 | 10.60 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.59 | 0.00 | 10.59 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.57 | 0.00 | 10.57 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.56 | 0.00 | 10.56 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.55 | 0.00 | 10.55 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.54 | 0.00 | 10.54 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.52 | 0.00 | 10.52 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.51 | 0.00 | 10.51 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.50 | 0.00 | 10.50 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.49 | 0.00 | 10.49 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.48 | 0.00 | 10.48 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.46 | 0.00 | 10.46 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.45 | 0.00 | 10.45 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.44 | 0.00 | 10.44 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.43 | 0.00 | 10.43 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.42 | 0.00 | 10.42 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.40 | 0.00 | 10.40 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.39 | 0.00 | 10.39 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.38 | 0.00 | 10.38 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.37 | 0.00 | 10.37 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.36 | 0.00 | 10.36 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.35 | 0.00 | 10.35 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.33 | 0.00 | 10.33 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.32 | 0.00 | 10.32 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.31 | 0.00 | 10.31 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.30 | 0.00 | 10.30 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.29 | 0.00 | 10.29 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.28 | 0.00 | 10.28 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.27 | 0.00 | 10.27 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.26 | 0.00 | 10.26 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.24 | 0.00 | 10.24 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.23 | 0.00 | 10.23 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.22 | 0.00 | 10.22 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.21 | 0.00 | 10.21 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 278 | 18.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.20 | 0.00 | 10.20 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 279 | 18.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.19 | 0.00 | 10.19 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.18 | 0.00 | 10.18 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.17 | 0.00 | 10.17 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.16 | 0.00 | 10.16 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.15 | 0.00 | 10.15 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.14 | 0.00 | 10.14 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.13 | 0.00 | 10.13 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.11 | 0.00 | 10.11 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.10 | 0.00 | 10.10 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.09 | 0.00 | 10.09 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.08 | 0.00 | 10.08 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.07 | 0.00 | 10.07 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.06 | 0.00 | 10.06 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.05 | 0.00 | 10.05 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.04 | 0.00 | 10.04 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.03 | 0.00 | 10.03 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.02 | 0.00 | 10.02 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.01 | 0.00 | 10.01 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.00 | 0.00 | 10.00 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.99 | 0.00 | 9.99 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.98 | 0.00 | 9.98 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.97 | 0.00 | 9.97 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.96 | 0.00 | 9.96 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.95 | 0.00 | 9.95 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.94 | 0.00 | 9.94 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.93 | 0.00 | 9.93 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.92 | 0.00 | 9.92 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.91 | 0.00 | 9.91 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.90 | 0.00 | 9.90 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.89 | 0.00 | 9.89 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.88 | 0.00 | 9.88 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.87 | 0.00 | 9.87 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.86 | 0.00 | 9.86 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.85 | 0.00 | 9.85 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.84 | 0.00 | 9.84 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.84 | 0.00 | 9.84 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.83 | 0.00 | 9.83 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.82 | 0.00 | 9.82 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.81 | 0.00 | 9.81 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.80 | 0.00 | 9.80 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.79 | 0.00 | 9.79 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.78 | 0.00 | 9.78 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.77 | 0.00 | 9.77 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.76 | 0.00 | 9.76 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.75 | 0.00 | 9.75 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.74 | 0.00 | 9.74 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.73 | 0.00 | 9.73 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.73 | 0.00 | 9.73 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.72 | 0.00 | 9.72 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.71 | 0.00 | 9.71 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.70 | 0.00 | 9.70 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 330 | 13.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.69 | 0.00 | 9.69 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 331 | 13.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.68 | 0.00 | 9.68 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.67 | 0.00 | 9.67 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.66 | 0.00 | 9.66 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.65 | 0.00 | 9.65 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.65 | 0.00 | 9.65 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.64 | 0.00 | 9.64 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.63 | 0.00 | 9.63 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.62 | 0.00 | 9.62 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.61 | 0.00 | 9.61 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.60 | 0.00 | 9.60 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.59 | 0.00 | 9.59 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.59 | 0.00 | 9.59 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.58 | 0.00 | 9.58 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.57 | 0.00 | 9.57 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.56 | 0.00 | 9.56 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.55 | 0.00 | 9.55 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.54 | 0.00 | 9.54 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.54 | 0.00 | 9.54 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.53 | 0.00 | 9.53 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.52 | 0.00 | 9.52 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.51 | 0.00 | 9.51 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.50 | 0.00 | 9.50 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.50 | 0.00 | 9.50 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.49 | 0.00 | 9.49 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.48 | 0.00 | 9.48 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.47 | 0.00 | 9.47 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.46 | 0.00 | 9.46 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.46 | 0.00 | 9.46 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.45 | 0.00 | 9.45 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.44 | 0.00 | 9.44 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.43 | 0.00 | 9.43 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.42 | 0.00 | 9.42 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.42 | 0.00 | 9.42 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.41 | 0.00 | 9.41 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.40 | 0.00 | 9.40 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.38 | 0.00 | 9.38 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.37 | 0.00 | 9.37 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.35 | 0.00 | 9.35 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.34 | 0.00 | 9.34 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK SUMMER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.26150 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.34 | 0.00 | 9.34 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 375 | 8.80 | 8.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 376 | 8.70 | 8.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 377 | 8.60 | 8.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 378 | 8.50 | 8.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 379 | 8.40 | 8.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 380 | 8.30 | 8.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 381 | 8.20 | 8.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 382 | 8.10 | 8.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 383 | 8.00 | 7.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 384 | 7.90 | 7.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 385 | 7.80 | 7.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 386 | 7.70 | 7.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 387 | 7.60 | 7.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 388 | 7.50 | 7.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 389 | 7.40 | 7.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 390 | 7.30 | 7.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 391 | 7.20 | 7.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 392 | 7.10 | 7.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 393 | 7.00 | 6.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 394 | 6.90 | 6.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 395 | 6.80 | 6.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 396 | 6.70 | 6.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 397 | 6.60 | 6.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 398 | 6.50 | 6.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 399 | 6.40 | 6.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 400 | 6.30 | 6.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 401 | 6.20 | 6.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 402 | 6.10 | 6.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 403 | 6.00 | 5.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 404 | 5.90 | 5.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 405 | 5.80 | 5.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 406 | 5.70 | 5.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 407 | 5.60 | 5.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 408 | 5.50 | 5.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 409 | 5.40 | 5.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 410 | 5.30 | 5.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 411 | 5.20 | 5.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 412 | 5.10 | 5.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 413 | 5.00 | 4.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 414 | 4.90 | 4.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 415 | 4.80 | 4.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 416 | 4.70 | 4.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 417 | 4.60 | 4.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 418 | 4.50 | 4.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 419 | 4.40 | 4.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 420 | 4.30 | 4.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 421 | 4.20 | 4.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 422 | 4.10 | 4.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 423 | 4.00 | 3.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 424 | 3.90 | 3.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 425 | 3.80 | 3.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 426 | 3.70 | 3.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 427 | 3.60 | 3.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 428 | 3.50 | 3.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 429 | 3.40 | 3.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 430 | 3.30 | 3.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 431 | 3.20 | 3.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 432 | 3.10 | 3.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 433 | 3.00 | 2.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 434 | 2.90 | 2.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 435 | 2.80 | 2.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 436 | 2.70 | 2.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 437 | 2.60 | 2.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 438 | 2.50 | 2.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 439 | 2.40 | 2.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 440 | 2.30 | 2.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 441 | 2.20 | 2.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 442 | 2.10 | 2.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 443 | 2.00 | 1.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 444 | 1.90 | 1.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 445 | 1.80 | 1.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 446 | 1.70 | 1.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 447 | 1.60 | 1.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 448 | 1.50 | 1.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 449 | 1.40 | 1.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 450 | 1.30 | 1.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 451 | 1.20 | 1.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 452 | 1.10 | 1.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 453 | 1.00 | 0.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 454 | 0.90 | 0.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 455 | 0.80 | 0.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 456 | 0.70 | 0.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 457 | 0.60 | 0.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 458 | 0.50 | 0.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 459 | 0.40 | 0.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 460 | 0.30 | 0.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 461 | 0.20 | 0.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 462 | 0.10 | 0.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| TOT | | | | | | 1.89 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.05465 | | 0.63 | 7.62 | | | 4.79 | | | | |

CUM 7.54

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 417 | 4.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 418 | 4.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.32 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 9.33 | 0.00 | 9.33 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 9.32 | 0.00 | 9.32 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 9.31 | 0.00 | 9.31 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 9.30 | 0.00 | 9.30 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 9.29 | 0.00 | 9.29 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 9.28 | 0.00 | 9.28 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 9.27 | 0.00 | 9.27 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.04 | 9.26 | 0.00 | 9.26 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.04 | 9.25 | 0.00 | 9.25 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.05 | 9.24 | 0.00 | 9.24 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.06 | 9.23 | 0.00 | 9.23 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.06 | 9.22 | 0.00 | 9.22 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.07 | 9.21 | 0.00 | 9.21 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.08 | 9.20 | 0.00 | 9.20 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.08 | 9.19 | 0.00 | 9.19 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.09 | 9.18 | 0.00 | 9.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.09 | 9.17 | 0.00 | 9.17 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.10 | 9.16 | 0.00 | 9.16 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.11 | 9.15 | 0.00 | 9.15 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.11 | 9.14 | 0.00 | 9.14 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.12 | 9.13 | 0.00 | 9.13 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.12 | 9.12 | 0.00 | 9.12 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.13 | 9.11 | 0.00 | 9.11 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.13 | 9.10 | 0.00 | 9.10 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.09 | 0.00 | 9.09 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.08 | 0.00 | 9.08 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.07 | 0.00 | 9.07 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.15 | 9.06 | 0.00 | 9.06 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.15 | 9.05 | 0.00 | 9.05 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.04 | 0.00 | 9.04 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.03 | 0.00 | 9.03 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.03 | 0.00 | 9.03 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.17 | 9.02 | 0.00 | 9.02 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.17 | 9.01 | 0.00 | 9.01 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 9.00 | 0.00 | 9.00 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 8.99 | 0.00 | 8.99 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 8.98 | 0.00 | 8.98 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.97 | 0.00 | 8.97 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.96 | 0.00 | 8.96 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.95 | 0.00 | 8.95 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.94 | 0.00 | 8.94 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.94 | 0.00 | 8.94 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.93 | 0.00 | 8.93 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.92 | 0.00 | 8.92 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.91 | 0.00 | 8.91 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.90 | 0.00 | 8.90 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.89 | 0.00 | 8.89 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | 4.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.88 | 0.00 | 8.88 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 422 | 4.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.87 | 0.00 | 8.87 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.87 | 0.00 | 8.87 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.86 | 0.00 | 8.86 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.85 | 0.00 | 8.85 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.84 | 0.00 | 8.84 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.83 | 0.00 | 8.83 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.82 | 0.00 | 8.82 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.23 | 8.82 | 0.00 | 8.82 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.81 | 0.00 | 8.81 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.80 | 0.00 | 8.80 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.79 | 0.00 | 8.79 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.78 | 0.00 | 8.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.77 | 0.00 | 8.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.77 | 0.00 | 8.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.76 | 0.00 | 8.76 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.75 | 0.00 | 8.75 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.74 | 0.00 | 8.74 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.73 | 0.00 | 8.73 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.73 | 0.00 | 8.73 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.72 | 0.00 | 8.72 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.71 | 0.00 | 8.71 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.70 | 0.00 | 8.70 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.69 | 0.00 | 8.69 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.69 | 0.00 | 8.69 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.68 | 0.00 | 8.68 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.67 | 0.00 | 8.67 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.66 | 0.00 | 8.66 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.66 | 0.00 | 8.66 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.65 | 0.00 | 8.65 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.64 | 0.00 | 8.64 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.63 | 0.00 | 8.63 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.63 | 0.00 | 8.63 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.62 | 0.00 | 8.62 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.61 | 0.00 | 8.61 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.60 | 0.00 | 8.60 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.60 | 0.00 | 8.60 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.59 | 0.00 | 8.59 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.58 | 0.00 | 8.58 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.57 | 0.00 | 8.57 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.57 | 0.00 | 8.57 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.56 | 0.00 | 8.56 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER

IATT CREEK WATERSHED MODEL
IATT CREEK SUMMER RUN WITH 60% REDUCTION

TRAVEL TIME = 7.54 DAYS

MAXIMUM EFFLUENT = 5.13 PERCENT

FLOW = 0.19497 TO 0.26846 $m^3/s$

```
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.03989 TO    3.20234   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   11.07      m

 BOD DECAY         =    0.06   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.48   TO    3.15      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.45   TO   28.48      per day
 BOD SETTLING      =    0.06   TO    0.24      per day
 NBOD DECAY        =    0.08   TO    0.14      per day
 NBOD SETTLING     =    0.24   TO    0.35      per day

 TEMPERATURE       =   26.92   TO   26.92      deg C
 DISSOLVED OXYGEN  =    4.94   TO    7.19      mg/L


     .....EXECUTION COMPLETED
```

# Appendix D2 – Summer Justifications

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| OCEAN EXCHANGE RATIO | 0 | | This was done to allow dispersion in the model but not to force the bottom element through the boundary conditions. |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditionse. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| Reach | ID | Name | Upstream River Kilometer | Downstream River Kilometer | Element Length, meters | Data Source |
| 1 | PC | IC1-IC3 | 46.20 | 44.90 | 100.0000 | ARC MAP Calc. |
| 2 | PC | IC3-IC4 | 44.90 | 38.10 | 100.0000 | ARC MAP Calc. |
| 3 | PC | IC4-IC5 | 38.10 | 29.20 | 100.0000 | ARC MAP Calc. |
| 4 | PC | IC5-IC6 | 29.20 | 24.10 | 100.0000 | ARC MAP Calc. |
| 5 | PC | IC6-IC8 | 24.10 | 8.90 | 100.0000 | ARC MAP Calc. |
| 6 | PC | IC8-IC9 | 8.90 | 0.00 | 100.0000 | ARC MAP Calc. |

| | | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|---|---|
| Reach | Name | Width Coeff. "a" | Width Exp. "b" | Width Const. "c" | Data Source |
| 1 | IC1-IC3 | 0 | 0.2 | 1.321 | Constant - IC1 and Coefficients and Exponent - calibration |
| 2 | IC3-IC4 | 0 | 0.2 | 2.073 | Constant - IC3 and Coefficients and Exponent - calibration |
| 3 | IC4-IC5 | 0 | 0.2 | 3.886 | Constant - IC4 and Coefficients and Exponent - calibration |
| 4 | IC5-IC6 | 0 | 0.2 | 8.077 | Constant - IC5 and Coefficients and Exponent - calibration |
| 5 | IC6-IC8 | 2.5 | 0.2 | 9.144 | Constant - IC6 and Coefficients and Exponent - calibration |
| 6 | IC8-IC9 | 0 | 0.2 | 7.622 | Constant - IC8 and Coefficients and Exponent - calibration |

| DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|
| Depth Coeff. "d" | Depth Exp. "e" | Depth Const. "f" | Data Source |
| 0 | 0.3 | 0.048 | Constant - IC1 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.120 | Constant - IC3 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.253 | Constant - IC4 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.440 | Constant - IC5 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.593 | Constant - IC6 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.628 | Constant - IC8 and Coefficients and Exponent - calibration |

| | | DATA TYPE 11 - INITIAL CONDITIONS | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Temp, deg C** | **Data Source** | **DO, mg/l** | **Data Source** | **Chlorophyll a** | **Data Source** |
| 1 | IC1-IC3 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 38.0 | IC1 Lab Data |
| 2 | IC3-IC4 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 7.0 | IC3 Lab Data |
| 3 | IC4-IC5 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |
| 4 | IC5-IC6 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 0 | IC5 Lab Data |
| 5 | IC6-IC8 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |
| 6 | IC8-IC9 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** | **Aerobic BOD Dec Rate (1/day)** | **Data Source** | **BOD SETT RATE (1/day)** | **Data Source** |
| 1 | IC1-IC3 | 11 | Texas Equation | 0.31 | 60% Reduction Calc. | 0.0404 | AVG(IC1,IC2,IC3) | 0.20 | Calibration |
| 2 | IC3-IC4 | 11 | Texas Equation | 2.04 | 60% Reduction Calc. | 0.0555 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 11 | Texas Equation | 1.67 | 60% Reduction Calc. | 0.0640 | AVG(IC4,IC5) | 0.15 | Calibration |
| 4 | IC5-IC6 | 11 | Texas Equation | 1.47 | 60% Reduction Calc. | 0.0669 | AVG(IC5,IC6) | 0.15 | Calibration |
| 5 | IC6-IC8 | 11 | Texas Equation | 1.28 | 60% Reduction Calc. | 0.0645 | AVG(IC6,IC8) | 0.05 | Calibration |
| 6 | IC8-IC9 | 11 | Texas Equation | 1.26 | 60% Reduction Calc. | 0.0611 | IC8 | 0.10 | Calibration |

| | | DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | IC1-IC3 | 0.0692 | AVG(IC1,IC2,IC3) | 0.30 | Calibration |
| 2 | IC3-IC4 | 0.0634 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 0.0531 | AVG(IC4,IC5) | 0.20 | Calibration |
| 4 | IC5-IC6 | 0.0732 | AVG(IC5,IC6) | 0.20 | Calibration |
| 5 | IC6-IC8 | 0.0904 | AVG(IC6,IC8) | 0.20 | Calibration |
| 6 | IC8-IC9 | 0.0944 | IC8 | 0.20 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, deg C** | **Data Source** |
| 1 | IC1-IC3 | -0.0028 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 2 | IC3-IC4 | 0.0000 | 0.0187 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 3 | IC4-IC5 | 0.0000 | 0.0442 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 4 | IC5-IC6 | 0.0000 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 5 | IC6-IC8 | -0.0079 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 6 | IC8-IC9 | 0.0000 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | |
|---|---|---|---|
| **Reach** | **Reach Name** | **DO, mg/l** | **Data Source** |
| 1 | IC1-IC3 | 2 | Normal Groundwater DO |
| 2 | IC3-IC4 | 2 | Normal Groundwater DO |
| 3 | IC4-IC5 | 2 | Normal Groundwater DO |
| 4 | IC5-IC6 | 2 | Normal Groundwater DO |
| 5 | IC6-IC8 | 2 | Normal Groundwater DO |
| 6 | IC8-IC9 | 2 | Normal Groundwater DO |

| | DATA TYPE 19 - NONPOINT SOURCES | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Length of Reach, km** | **UCBOD, kg/day** | **NBOD, kg/day** | **Data Source** |
| 1 | IC1-IC3 | 1.30 | 0.0 | 1.00 | 60% Reduction Calc. |
| 2 | IC3-IC4 | 6.8 | 0.0 | 0.00 | 60% Reduction Calc. |
| 3 | IC4-IC5 | 8.9 | 35.0 | 4.00 | 60% Reduction Calc. |
| 4 | IC5-IC6 | 5.1 | 29.0 | 8.00 | 60% Reduction Calc. |
| 5 | IC6-IC8 | 15.2 | 112.0 | 48.00 | 60% Reduction Calc. |
| 6 | IC8-IC9 | 8.9 | 59.0 | 17.00 | 60% Reduction Calc. |

| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Headwater Name** | **Element No.** | **Logical Unit Number** | **Headwater Flow, cms** | **Data Source** | **Temp, deg C** | **Data Source** | **Conservative Material I** | **Conservative Material II** | **Salinity** | **Data Source** |
| Headwater 1 | 1 | 1 | 0.1954 | 7Q10 for Iatt Creek | 26.92 | Summer 90th percentile temp for WQ Site 1222 | 4.8 | 167.1 | 0.07 | IC1 Lab Data - CMI Insitu - Salinity and CMII |

| | | DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | |
|---|---|---|---|---|---|
| **Headwater Name** | **Dissolved Oxygen, mg/L** | **Data Source** | **UCBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| Headwater 1 | 7.18 | Summer 90 % DO Sat. for WQ Site 1222 | 15.93 | 0.92 | 60% Reduction Calc. |

| DATA TYPES 22 - HEADWATER DATA FOR CHLOROPHYLL | | |
|---|---|---|
| **Headwater Name** | **Chlorophyll a, ug/L** | **Date Source** |
| Headwater 1 | 38 | IC1 Lab Data |

| | | | DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **Flow, cms** | **Data Source** | **Temperature, deg C** | **Data Source** | **Salinity** | **Conservative Material I** | **Data Source** | **Conservative Material II** | **Data Source** |
| WINN CORRECTIONAL | 3 | 0.0083 | Permit Limit with MOS | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.35 | 76.1 | IN SITU DATA AT IC2 | 680.8 | LAB DATA AT IC2 |
| Redland/Cow Creek | 91 | 0.0028 | LTP Default | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.03 | 8.6 | IN SITU DATA AT RC1 | 89.1 | LAB DATA AT RC1 |
| Cruie Creek | 239 | 0.0028 | LTP Default | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.05 | 11.5 | IN SITU DATA AT CC1 | 123.4 | LAB DATA AT CC1 |

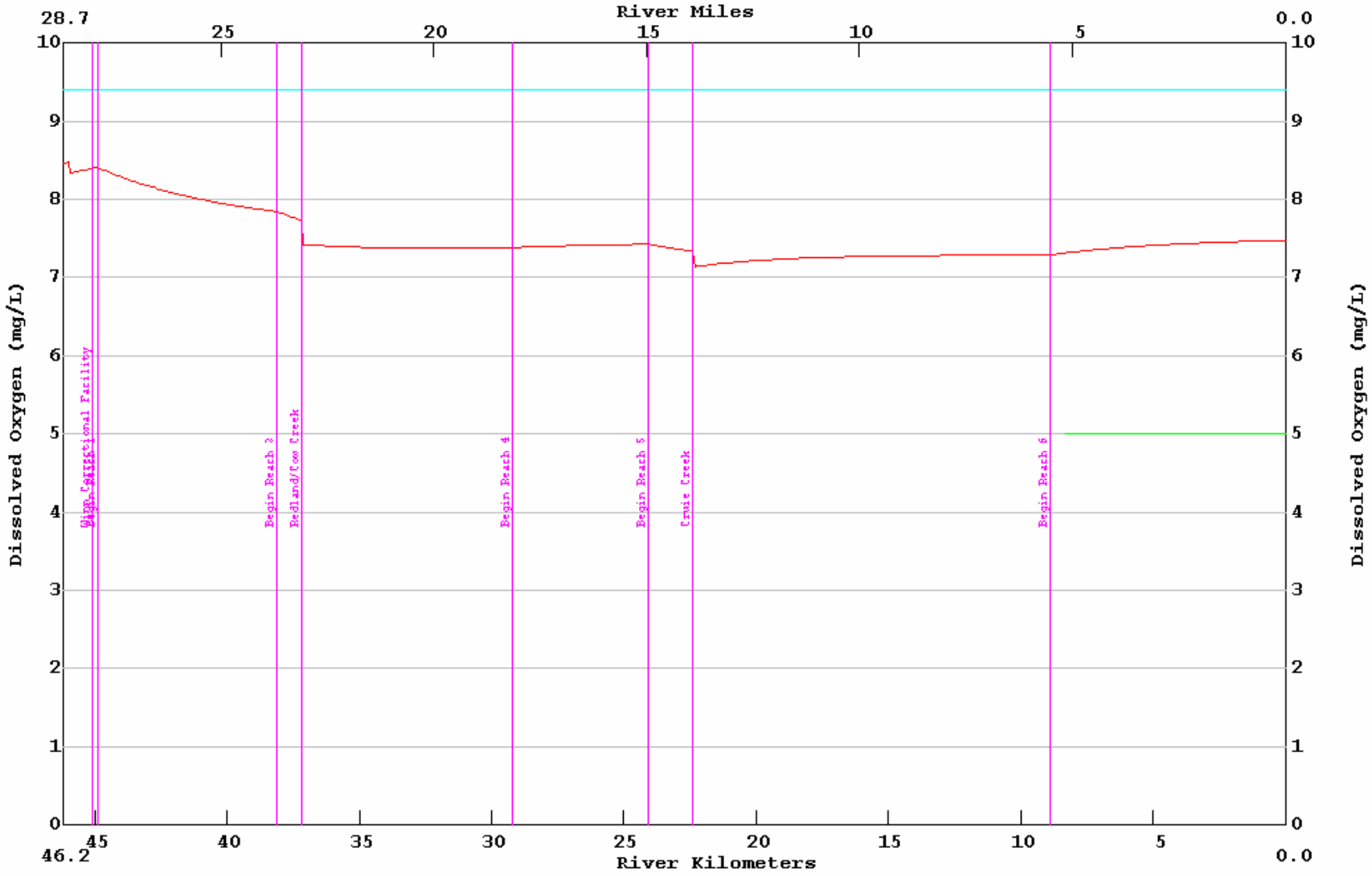
| DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN | | | | | | |
|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **DO, mg/l** | **Data Source** | **UCBOD, mg/l** | **UNBOD, mg/l** | **Data Source** |
| WINN CORRECTIONAL | 3 | 5 | DO Standard for Subsegment 101303 | 23 | 43 | Permit Limit for CBOD1 and LTP default for NBOD |
| Redland/Cow Creek | 91 | 5 | DO Standard for Subsegment 101303 | 5.52 | 0.67 | RLC1 with 60% Reduction |
| Cruie Creek | 239 | 5 | DO Standard for Subsegment 101303 | 6.94 | 2.03 | CC1 with 60% Reduction |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| | | | |
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 26.92 | $^{O}C$ | Summer 90th percentile temp. for WQ Site 1222 |
| SALINITY | 0.04 | mg/L | Insitu at IC9 |
| CONSERVATIVE MATERIAL I | 17.90 | ppm | IC9 Lab Data |
| CONSERVATIVE MATERIAL II | 107.80 | umhos/cm | Insitu at IC9 |
| DISSOLVED OXYGEN | 5.00 | mg/L | DO Standard for Subsegment 101303 |
| CBOD | 10.04 | mg/L | IC9 Lab Data |
| NBOD | 1.60 | mg/L | IC9 Lab Data |

# Appendix D3 – Winter output and Graphs

Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

LA-QUAL Version 6.10 Run at 14:56 on 03/14/2005 File D:\Iatt Creek\Input Files\Iattwin60.txt
IATT CREEK WINTER RUN WITH 60% REDUCTION min= 7.14 max= 8.47
MAINSTEM



# Iatt Creek 101303 Winter Projection Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK WINTER RUN WITH 60% REDUCTION
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
```

```
REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    18.33           5.00                          38.00
INITIAL     2    18.33           5.00                           7.00
INITIAL     3    18.33           5.00
INITIAL     4    18.33           5.00                           0.00
INITIAL     5    18.33           5.00
INITIAL     6    18.33           5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
```

```
!                REA    KL                      BOD 1  BOD 1                BOD 2    BOD 2
!          R#    EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                      0.31 0.0405 0.20
COEF-1      2  11.00                      2.04 0.0555 0.20
COEF-1      3  11.00                      1.67 0.0640 0.15
COEF-1      4  11.00                      1.47 0.0669 0.15
COEF-1      5  11.00                      1.28 0.0646 0.05
COEF-1      6  11.00                      1.26 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  18.330              0         0
INCR-1      2     0.0000  0.0187  18.330              0         0
INCR-1      3     0.0000  0.0442  18.330              0        50
INCR-1      4     0.0000  0.0000  18.330              0        50
INCR-1      5    -0.0079  0.0000  18.330              0        50
INCR-1      6     0.0000  0.0000  18.330              0        50
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1             38.0
INCR-3      2              7.0
INCR-3      3
INCR-3      4
INCR-3      5              0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     35.0     4.0
NONPOINT    4     29.0     8.0
NONPOINT    5    112.0    48.0
NONPOINT    6     59.0    17.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.1954   18.33  0.07     4.8     167.10
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      8.46    15.93    0.92
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0083    18.33     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0280    18.33     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0280    18.33     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.52         0.67
WSTLD-2   239      5.00    6.94         2.03
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
WSTLD-3    91
```

```
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  18.33
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************* ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Winter Projection Output Data Set

```
LA-QUAL Version 6.10
Louisiana Department of Environmental Quality

Input file is D:\Iatt Creek\Input Files\Iattwin60.txt
Output produced at 14:56 on 03/14/2005

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK WINTER RUN WITH 60% REDUCTION
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       18.33      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       18.33      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       18.33      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       18.33      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       18.33      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       18.33      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.310     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.040     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.670     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.470     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.280     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.260     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                 DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000       0.000     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

ENDATA14

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

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

ENDATA15
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$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

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

INCR-1           1   IC      -0.00280     0.00000     18.33      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     18.33      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     18.33      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     18.33      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     18.33      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     18.33      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       35.00      4.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       29.00      8.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC      112.00     48.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       59.00     17.00      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
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                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   18.33     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   8.46     15.93      0.92      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00830    0.29308    0.189   18.33     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.02800    0.98870    0.639   18.33     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.02800    0.98870    0.639   18.33     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.52      0.00      0.67      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      6.94      0.00      2.03      0.00      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
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WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     18.330     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovlproj.txt                :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
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     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    HEADWATER                                       IATT CREEK WATERSHED MODEL
REACH NO.  1    HEADWATER - SITE 3                              IATT CREEK WINTER RUN WITH 60% REDUCTION
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********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.19540 | 18.33 | 0.07 | 4.80 | 167.10 | 8.46 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |
| 3 | WSTLD | 0.00830 | 18.33 | 0.35 | 76.10 | 680.80 | 5.00 | 23.00 | 0.00 | 23.00 | 0.00 | 43.00 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.20305 | 4.1 | 3.20234 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.202 |
| 4 | 45.90 | 45.80 | 0.20284 | 4.1 | 3.19894 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.199 |
| 5 | 45.80 | 45.70 | 0.20262 | 4.1 | 3.19554 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.196 |
| 6 | 45.70 | 45.60 | 0.20241 | 4.1 | 3.19215 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.192 |
| 7 | 45.60 | 45.50 | 0.20219 | 4.1 | 3.18875 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.189 |
| 8 | 45.50 | 45.40 | 0.20198 | 4.1 | 3.18535 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.185 |
| 9 | 45.40 | 45.30 | 0.20176 | 4.1 | 3.18196 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.182 |
| 10 | 45.30 | 45.20 | 0.20155 | 4.1 | 3.17856 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.179 |
| 11 | 45.20 | 45.10 | 0.20133 | 4.1 | 3.17516 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.175 |
| 12 | 45.10 | 45.00 | 0.20112 | 4.1 | 3.17177 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.172 |
| 13 | 45.00 | 44.90 | 0.20090 | 4.1 | 3.16837 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.168 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.16808 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 45.900 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 45.800 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 9.40 | 24.17 | 0.04 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.06 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 18.33 | 0.00 | 4.80 | 167.10 | 8.47 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 18.33 | 0.00 | 4.80 | 167.10 | 8.47 | 15.93 | 0.00 | 15.93 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 18.33 | 0.00 | 7.71 | 188.08 | 8.34 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 18.33 | 0.00 | 7.71 | 188.08 | 8.35 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 18.33 | 0.00 | 7.71 | 188.08 | 8.35 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 18.33 | 0.00 | 7.71 | 188.08 | 8.36 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 18.33 | 0.00 | 7.71 | 188.08 | 8.37 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 18.33 | 0.00 | 7.71 | 188.08 | 8.37 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 18.33 | 0.00 | 7.71 | 188.08 | 8.38 | 16.21 | 0.00 | 16.21 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 18.33 | 0.00 | 7.71 | 188.08 | 8.39 | 16.21 | 0.00 | 16.21 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 18.33 | 0.00 | 7.71 | 188.08 | 8.39 | 16.20 | 0.00 | 16.20 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 18.33 | 0.00 | 7.71 | 188.08 | 8.40 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 18.33 | 0.00 | 7.71 | 188.08 | 8.41 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK WINTER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.20090 | 18.33 | 0.00 | 7.71 | 188.08 | 8.41 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 18.33 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.20118 | 4.1 | 0.80871 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 15 | 44.80 | 44.70 | 0.20145 | 4.1 | 0.80982 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 16 | 44.70 | 44.60 | 0.20173 | 4.1 | 0.81092 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 17 | 44.60 | 44.50 | 0.20200 | 4.1 | 0.81203 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 18 | 44.50 | 44.40 | 0.20228 | 4.1 | 0.81313 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 19 | 44.40 | 44.30 | 0.20255 | 4.0 | 0.81424 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 20 | 44.30 | 44.20 | 0.20283 | 4.0 | 0.81534 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 21 | 44.20 | 44.10 | 0.20310 | 4.0 | 0.81645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 22 | 44.10 | 44.00 | 0.20338 | 4.0 | 0.81756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 23 | 44.00 | 43.90 | 0.20365 | 4.0 | 0.81866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.819 |
| 24 | 43.90 | 43.80 | 0.20393 | 4.0 | 0.81977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 25 | 43.80 | 43.70 | 0.20420 | 4.0 | 0.82087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 26 | 43.70 | 43.60 | 0.20448 | 4.0 | 0.82198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 27 | 43.60 | 43.50 | 0.20475 | 4.0 | 0.82308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 28 | 43.50 | 43.40 | 0.20503 | 4.0 | 0.82419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 29 | 43.40 | 43.30 | 0.20530 | 4.0 | 0.82529 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 30 | 43.30 | 43.20 | 0.20558 | 4.0 | 0.82640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |
| 31 | 43.20 | 43.10 | 0.20585 | 4.0 | 0.82750 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |
| 32 | 43.10 | 43.00 | 0.20613 | 4.0 | 0.82861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.829 |
| 33 | 43.00 | 42.90 | 0.20640 | 4.0 | 0.82972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |
| 34 | 42.90 | 42.80 | 0.20668 | 4.0 | 0.83082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 35 | 42.80 | 42.70 | 0.20695 | 4.0 | 0.83193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 36 | 42.70 | 42.60 | 0.20723 | 4.0 | 0.83303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 37 | 42.60 | 42.50 | 0.20750 | 4.0 | 0.83414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 38 | 42.50 | 42.40 | 0.20778 | 3.9 | 0.83524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 39 | 42.40 | 42.30 | 0.20805 | 3.9 | 0.83635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 40 | 42.30 | 42.20 | 0.20833 | 3.9 | 0.83745 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 41 | 42.20 | 42.10 | 0.20860 | 3.9 | 0.83856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 42 | 42.10 | 42.00 | 0.20888 | 3.9 | 0.83967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.840 |
| 43 | 42.00 | 41.90 | 0.20915 | 3.9 | 0.84077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 44 | 41.90 | 41.80 | 0.20943 | 3.9 | 0.84188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 45 | 41.80 | 41.70 | 0.20970 | 3.9 | 0.84298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 46 | 41.70 | 41.60 | 0.20998 | 3.9 | 0.84409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 47 | 41.60 | 41.50 | 0.21025 | 3.9 | 0.84519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 48 | 41.50 | 41.40 | 0.21053 | 3.9 | 0.84630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 49 | 41.40 | 41.30 | 0.21080 | 3.9 | 0.84740 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 50 | 41.30 | 41.20 | 0.21108 | 3.9 | 0.84851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| 51 | 41.20 | 41.10 | 0.21135 | 3.9 | 0.84961 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.850 |
| 52 | 41.10 | 41.00 | 0.21163 | 3.9 | 0.85072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.851 |
| 53 | 41.00 | 40.90 | 0.21190 | 3.9 | 0.85183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.852 |
| 54 | 40.90 | 40.80 | 0.21218 | 3.9 | 0.85293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.853 |
| 55 | 40.80 | 40.70 | 0.21245 | 3.9 | 0.85404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.854 |
| 56 | 40.70 | 40.60 | 0.21273 | 3.9 | 0.85514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.855 |
| 57 | 40.60 | 40.50 | 0.21300 | 3.9 | 0.85625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.856 |
| 58 | 40.50 | 40.40 | 0.21328 | 3.8 | 0.85735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.857 |
| 59 | 40.40 | 40.30 | 0.21355 | 3.8 | 0.85846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.858 |
| 60 | 40.30 | 40.20 | 0.21383 | 3.8 | 0.85956 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.860 |
| 61 | 40.20 | 40.10 | 0.21410 | 3.8 | 0.86067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.861 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | 40.10 | 40.00 | 0.21438 | 3.8 | 0.86177 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.862 |
| 63 | 40.00 | 39.90 | 0.21465 | 3.8 | 0.86288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.863 |
| 64 | 39.90 | 39.80 | 0.21493 | 3.8 | 0.86399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.864 |
| 65 | 39.80 | 39.70 | 0.21520 | 3.8 | 0.86509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.865 |
| 66 | 39.70 | 39.60 | 0.21548 | 3.8 | 0.86620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.866 |
| 67 | 39.60 | 39.50 | 0.21575 | 3.8 | 0.86730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.867 |
| 68 | 39.50 | 39.40 | 0.21603 | 3.8 | 0.86841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.868 |
| 69 | 39.40 | 39.30 | 0.21630 | 3.8 | 0.86951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.870 |
| 70 | 39.30 | 39.20 | 0.21658 | 3.8 | 0.87062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.871 |
| 71 | 39.20 | 39.10 | 0.21685 | 3.8 | 0.87172 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.872 |
| 72 | 39.10 | 39.00 | 0.21713 | 3.8 | 0.87283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.873 |
| 73 | 39.00 | 38.90 | 0.21740 | 3.8 | 0.87394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.874 |
| 74 | 38.90 | 38.80 | 0.21768 | 3.8 | 0.87504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.875 |
| 75 | 38.80 | 38.70 | 0.21795 | 3.8 | 0.87615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.876 |
| 76 | 38.70 | 38.60 | 0.21823 | 3.8 | 0.87725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.877 |
| 77 | 38.60 | 38.50 | 0.21850 | 3.8 | 0.87836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.878 |
| 78 | 38.50 | 38.40 | 0.21878 | 3.7 | 0.87946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.879 |
| 79 | 38.40 | 38.30 | 0.21905 | 3.7 | 0.88057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.881 |
| 80 | 38.30 | 38.20 | 0.21933 | 3.7 | 0.88167 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.882 |
| 81 | 38.20 | 38.10 | 0.21960 | 3.7 | 0.88278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.883 |
| TOT | | | | | | 0.09 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.84519 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 0.10 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 9.40 | 11.68 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 9.40 | 11.68 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 9.40 | 11.69 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 9.40 | 11.69 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 9.40 | 11.70 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 9.40 | 11.70 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 9.40 | 11.71 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 9.40 | 11.71 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 9.40 | 11.71 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 9.40 | 11.72 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 9.40 | 11.72 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 9.40 | 11.73 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 9.40 | 11.73 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 9.40 | 11.74 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 9.40 | 11.74 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 9.40 | 11.74 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 9.40 | 11.75 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 9.40 | 11.75 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 9.40 | 11.76 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 9.40 | 11.76 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 42.800 | 9.40 | 11.77 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 42.700 | 9.40 | 11.77 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 9.40 | 11.77 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 9.40 | 11.78 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 9.40 | 11.78 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 9.40 | 11.79 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 9.40 | 11.79 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 9.40 | 11.80 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 9.40 | 11.80 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 9.40 | 11.80 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 9.40 | 11.81 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 9.40 | 11.81 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 9.40 | 11.82 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 9.40 | 11.82 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 9.40 | 11.82 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 9.40 | 11.83 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 9.40 | 11.83 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 9.40 | 11.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 9.40 | 11.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 9.40 | 11.85 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 9.40 | 11.85 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 9.40 | 11.85 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 9.40 | 11.86 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 9.40 | 11.86 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 9.40 | 11.87 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 9.40 | 11.87 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 9.40 | 11.88 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 9.40 | 11.88 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 9.40 | 11.88 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 9.40 | 11.89 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 9.40 | 11.89 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 9.40 | 11.90 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 9.40 | 11.90 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 9.40 | 11.90 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 9.40 | 11.91 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 9.40 | 11.91 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 9.40 | 11.92 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 9.40 | 11.92 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 9.40 | 11.93 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 9.40 | 11.93 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 9.40 | 11.93 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 9.40 | 11.94 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 9.40 | 11.94 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 9.40 | 11.95 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 9.40 | 11.95 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 9.40 | 11.95 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 9.40 | 11.96 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 9.40 | 11.96 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 1.84 | 1.84 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.23 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 18.33 | 0.00 | 7.70 | 187.82 | 8.39 | 16.17 | 0.00 | 16.17 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 18.33 | 0.00 | 7.69 | 187.56 | 8.38 | 16.15 | 0.00 | 16.15 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 18.33 | 0.00 | 7.68 | 187.31 | 8.36 | 16.12 | 0.00 | 16.12 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 18.33 | 0.00 | 7.67 | 187.05 | 8.35 | 16.09 | 0.00 | 16.09 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 18.33 | 0.00 | 7.66 | 186.80 | 8.34 | 16.06 | 0.00 | 16.06 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 18.33 | 0.00 | 7.65 | 186.54 | 8.32 | 16.04 | 0.00 | 16.04 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 18.33 | 0.00 | 7.64 | 186.29 | 8.31 | 16.01 | 0.00 | 16.01 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 18.33 | 0.00 | 7.63 | 186.04 | 8.30 | 15.98 | 0.00 | 15.98 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 18.33 | 0.00 | 7.62 | 185.79 | 8.29 | 15.95 | 0.00 | 15.95 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 18.33 | 0.00 | 7.61 | 185.54 | 8.27 | 15.93 | 0.00 | 15.93 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 18.33 | 0.00 | 7.60 | 185.29 | 8.26 | 15.90 | 0.00 | 15.90 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 18.33 | 0.00 | 7.59 | 185.04 | 8.25 | 15.87 | 0.00 | 15.87 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 18.33 | 0.00 | 7.58 | 184.79 | 8.24 | 15.85 | 0.00 | 15.85 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 18.33 | 0.00 | 7.57 | 184.54 | 8.23 | 15.82 | 0.00 | 15.82 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 18.33 | 0.00 | 7.56 | 184.29 | 8.21 | 15.79 | 0.00 | 15.79 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 18.33 | 0.00 | 7.55 | 184.04 | 8.20 | 15.77 | 0.00 | 15.77 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 18.33 | 0.00 | 7.54 | 183.80 | 8.19 | 15.74 | 0.00 | 15.74 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 18.33 | 0.00 | 7.53 | 183.55 | 8.18 | 15.71 | 0.00 | 15.71 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 18.33 | 0.00 | 7.52 | 183.31 | 8.17 | 15.69 | 0.00 | 15.69 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 18.33 | 0.00 | 7.51 | 183.06 | 8.16 | 15.66 | 0.00 | 15.66 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 18.33 | 0.00 | 7.50 | 182.82 | 8.15 | 15.64 | 0.00 | 15.64 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 18.33 | 0.00 | 7.49 | 182.58 | 8.14 | 15.61 | 0.00 | 15.61 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 18.33 | 0.00 | 7.48 | 182.34 | 8.13 | 15.58 | 0.00 | 15.58 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 18.33 | 0.00 | 7.47 | 182.09 | 8.12 | 15.56 | 0.00 | 15.56 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 18.33 | 0.00 | 7.46 | 181.85 | 8.11 | 15.53 | 0.00 | 15.53 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 18.33 | 0.00 | 7.45 | 181.61 | 8.10 | 15.51 | 0.00 | 15.51 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 18.33 | 0.00 | 7.44 | 181.37 | 8.10 | 15.48 | 0.00 | 15.48 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 18.33 | 0.00 | 7.43 | 181.13 | 8.09 | 15.45 | 0.00 | 15.45 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 18.33 | 0.00 | 7.42 | 180.89 | 8.08 | 15.43 | 0.00 | 15.43 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 18.33 | 0.00 | 7.41 | 180.66 | 8.07 | 15.40 | 0.00 | 15.40 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 18.33 | 0.00 | 7.40 | 180.42 | 8.06 | 15.38 | 0.00 | 15.38 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 18.33 | 0.00 | 7.39 | 180.18 | 8.05 | 15.35 | 0.00 | 15.35 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 18.33 | 0.00 | 7.38 | 179.95 | 8.05 | 15.33 | 0.00 | 15.33 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 18.33 | 0.00 | 7.37 | 179.71 | 8.04 | 15.30 | 0.00 | 15.30 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 18.33 | 0.00 | 7.36 | 179.48 | 8.03 | 15.28 | 0.00 | 15.28 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 18.33 | 0.00 | 7.35 | 179.24 | 8.02 | 15.25 | 0.00 | 15.25 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 18.33 | 0.00 | 7.34 | 179.01 | 8.01 | 15.23 | 0.00 | 15.23 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 18.33 | 0.00 | 7.33 | 178.78 | 8.01 | 15.20 | 0.00 | 15.20 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 18.33 | 0.00 | 7.32 | 178.54 | 8.00 | 15.18 | 0.00 | 15.18 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 18.33 | 0.00 | 7.31 | 178.31 | 7.99 | 15.15 | 0.00 | 15.15 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 18.33 | 0.00 | 7.30 | 178.08 | 7.99 | 15.13 | 0.00 | 15.13 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 18.33 | 0.00 | 7.29 | 177.85 | 7.98 | 15.10 | 0.00 | 15.10 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 18.33 | 0.00 | 7.28 | 177.62 | 7.97 | 15.08 | 0.00 | 15.08 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 18.33 | 0.00 | 7.27 | 177.39 | 7.97 | 15.05 | 0.00 | 15.05 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 18.33 | 0.00 | 7.26 | 177.16 | 7.96 | 15.03 | 0.00 | 15.03 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | 40.300 | 18.33 | 0.00 | 7.25 | 176.93 | 7.95 | 15.01 | 0.00 | 15.01 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |
| 60 | 40.200 | 18.33 | 0.00 | 7.25 | 176.71 | 7.95 | 14.98 | 0.00 | 14.98 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 18.33 | 0.00 | 7.24 | 176.48 | 7.94 | 14.96 | 0.00 | 14.96 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 18.33 | 0.00 | 7.23 | 176.25 | 7.94 | 14.93 | 0.00 | 14.93 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 18.33 | 0.00 | 7.22 | 176.03 | 7.93 | 14.91 | 0.00 | 14.91 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 18.33 | 0.00 | 7.21 | 175.80 | 7.93 | 14.89 | 0.00 | 14.89 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 18.33 | 0.00 | 7.20 | 175.58 | 7.92 | 14.86 | 0.00 | 14.86 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 18.33 | 0.00 | 7.19 | 175.35 | 7.91 | 14.84 | 0.00 | 14.84 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 18.33 | 0.00 | 7.18 | 175.13 | 7.91 | 14.81 | 0.00 | 14.81 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 18.33 | 0.00 | 7.17 | 174.91 | 7.90 | 14.79 | 0.00 | 14.79 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 18.33 | 0.00 | 7.16 | 174.69 | 7.90 | 14.77 | 0.00 | 14.77 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 18.33 | 0.00 | 7.15 | 174.46 | 7.89 | 14.74 | 0.00 | 14.74 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 18.33 | 0.00 | 7.14 | 174.24 | 7.89 | 14.72 | 0.00 | 14.72 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 18.33 | 0.00 | 7.14 | 174.02 | 7.88 | 14.70 | 0.00 | 14.70 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 18.33 | 0.00 | 7.13 | 173.80 | 7.88 | 14.67 | 0.00 | 14.67 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 18.33 | 0.00 | 7.12 | 173.58 | 7.87 | 14.65 | 0.00 | 14.65 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 18.33 | 0.00 | 7.11 | 173.36 | 7.87 | 14.63 | 0.00 | 14.63 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 18.33 | 0.00 | 7.10 | 173.14 | 7.87 | 14.60 | 0.00 | 14.60 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 18.33 | 0.00 | 7.09 | 172.93 | 7.86 | 14.58 | 0.00 | 14.58 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 18.33 | 0.00 | 7.08 | 172.71 | 7.86 | 14.56 | 0.00 | 14.56 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 18.33 | 0.00 | 7.07 | 172.49 | 7.85 | 14.53 | 0.00 | 14.53 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 18.33 | 0.00 | 7.06 | 172.28 | 7.85 | 14.51 | 0.00 | 14.51 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 18.33 | 0.00 | 7.05 | 172.06 | 7.84 | 14.49 | 0.00 | 14.49 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK WINTER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21960 | 18.33 | 0.00 | 7.05 | 172.06 | 7.84 | 14.49 | 0.00 | 14.49 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 18.33 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.02800 | 18.33 | 0.03 | 8.60 | 89.10 | 5.00 | 5.52 | 0.00 | 5.52 | 0.00 | 0.67 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.22010 | 3.7 | 0.22387 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 83 | 38.00 | 37.90 | 0.22059 | 3.7 | 0.22437 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 84 | 37.90 | 37.80 | 0.22109 | 3.7 | 0.22488 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 85 | 37.80 | 37.70 | 0.22159 | 3.7 | 0.22538 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 86 | 37.70 | 37.60 | 0.22208 | 3.7 | 0.22589 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 87 | 37.60 | 37.50 | 0.22258 | 3.7 | 0.22639 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 88 | 37.50 | 37.40 | 0.22308 | 3.7 | 0.22690 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 37.40 | 37.30 | 0.22357 | 3.7 | 0.22740 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 90 | 37.30 | 37.20 | 0.22407 | 3.7 | 0.22791 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 91 | 37.20 | 37.10 | 0.25257 | 14.3 | 0.25689 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 92 | 37.10 | 37.00 | 0.25306 | 14.3 | 0.25740 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 93 | 37.00 | 36.90 | 0.25356 | 14.3 | 0.25790 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 94 | 36.90 | 36.80 | 0.25406 | 14.3 | 0.25841 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 95 | 36.80 | 36.70 | 0.25455 | 14.2 | 0.25891 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 96 | 36.70 | 36.60 | 0.25505 | 14.2 | 0.25942 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 97 | 36.60 | 36.50 | 0.25555 | 14.2 | 0.25992 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 98 | 36.50 | 36.40 | 0.25604 | 14.1 | 0.26043 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 99 | 36.40 | 36.30 | 0.25654 | 14.1 | 0.26093 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 100 | 36.30 | 36.20 | 0.25704 | 14.1 | 0.26144 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 101 | 36.20 | 36.10 | 0.25753 | 14.1 | 0.26194 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 102 | 36.10 | 36.00 | 0.25803 | 14.0 | 0.26245 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 103 | 36.00 | 35.90 | 0.25853 | 14.0 | 0.26295 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 104 | 35.90 | 35.80 | 0.25902 | 14.0 | 0.26346 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 105 | 35.80 | 35.70 | 0.25952 | 14.0 | 0.26396 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 106 | 35.70 | 35.60 | 0.26002 | 13.9 | 0.26447 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 107 | 35.60 | 35.50 | 0.26051 | 13.9 | 0.26498 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 108 | 35.50 | 35.40 | 0.26101 | 13.9 | 0.26548 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 109 | 35.40 | 35.30 | 0.26151 | 13.8 | 0.26599 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 110 | 35.30 | 35.20 | 0.26200 | 13.8 | 0.26649 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 111 | 35.20 | 35.10 | 0.26250 | 13.8 | 0.26700 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 112 | 35.10 | 35.00 | 0.26300 | 13.8 | 0.26750 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 113 | 35.00 | 34.90 | 0.26349 | 13.7 | 0.26801 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 114 | 34.90 | 34.80 | 0.26399 | 13.7 | 0.26851 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 115 | 34.80 | 34.70 | 0.26449 | 13.7 | 0.26902 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 116 | 34.70 | 34.60 | 0.26498 | 13.7 | 0.26952 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 117 | 34.60 | 34.50 | 0.26548 | 13.6 | 0.27003 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 118 | 34.50 | 34.40 | 0.26598 | 13.6 | 0.27053 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| 119 | 34.40 | 34.30 | 0.26647 | 13.6 | 0.27104 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| 120 | 34.30 | 34.20 | 0.26697 | 13.6 | 0.27154 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.272 |
| 121 | 34.20 | 34.10 | 0.26747 | 13.5 | 0.27205 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.272 |
| 122 | 34.10 | 34.00 | 0.26796 | 13.5 | 0.27255 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.273 |
| 123 | 34.00 | 33.90 | 0.26846 | 13.5 | 0.27306 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.273 |
| 124 | 33.90 | 33.80 | 0.26896 | 13.5 | 0.27356 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.274 |
| 125 | 33.80 | 33.70 | 0.26945 | 13.4 | 0.27407 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.274 |
| 126 | 33.70 | 33.60 | 0.26995 | 13.4 | 0.27457 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.275 |
| 127 | 33.60 | 33.50 | 0.27044 | 13.4 | 0.27508 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.275 |
| 128 | 33.50 | 33.40 | 0.27094 | 13.4 | 0.27558 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.276 |
| 129 | 33.40 | 33.30 | 0.27144 | 13.3 | 0.27609 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.276 |
| 130 | 33.30 | 33.20 | 0.27193 | 13.3 | 0.27659 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.277 |
| 131 | 33.20 | 33.10 | 0.27243 | 13.3 | 0.27710 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.277 |
| 132 | 33.10 | 33.00 | 0.27293 | 13.3 | 0.27760 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.278 |
| 133 | 33.00 | 32.90 | 0.27342 | 13.2 | 0.27811 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.278 |
| 134 | 32.90 | 32.80 | 0.27392 | 13.2 | 0.27861 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.279 |
| 135 | 32.80 | 32.70 | 0.27442 | 13.2 | 0.27912 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.279 |
| 136 | 32.70 | 32.60 | 0.27491 | 13.2 | 0.27962 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.280 |
| 137 | 32.60 | 32.50 | 0.27541 | 13.1 | 0.28013 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.280 |
| 138 | 32.50 | 32.40 | 0.27591 | 13.1 | 0.28063 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.281 |
| 139 | 32.40 | 32.30 | 0.27640 | 13.1 | 0.28114 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.281 |
| 140 | 32.30 | 32.20 | 0.27690 | 13.1 | 0.28164 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.282 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | 32.20 | 32.10 | 0.27740 | 13.1 | 0.28215 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.282 |
| 142 | 32.10 | 32.00 | 0.27789 | 13.0 | 0.28265 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.283 |
| 143 | 32.00 | 31.90 | 0.27839 | 13.0 | 0.28316 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.283 |
| 144 | 31.90 | 31.80 | 0.27889 | 13.0 | 0.28367 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.284 |
| 145 | 31.80 | 31.70 | 0.27938 | 13.0 | 0.28417 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.284 |
| 146 | 31.70 | 31.60 | 0.27988 | 12.9 | 0.28468 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.285 |
| 147 | 31.60 | 31.50 | 0.28038 | 12.9 | 0.28518 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.285 |
| 148 | 31.50 | 31.40 | 0.28087 | 12.9 | 0.28569 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.286 |
| 149 | 31.40 | 31.30 | 0.28137 | 12.9 | 0.28619 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.286 |
| 150 | 31.30 | 31.20 | 0.28187 | 12.8 | 0.28670 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.287 |
| 151 | 31.20 | 31.10 | 0.28236 | 12.8 | 0.28720 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.287 |
| 152 | 31.10 | 31.00 | 0.28286 | 12.8 | 0.28771 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.288 |
| 153 | 31.00 | 30.90 | 0.28336 | 12.8 | 0.28821 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.288 |
| 154 | 30.90 | 30.80 | 0.28385 | 12.8 | 0.28872 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.289 |
| 155 | 30.80 | 30.70 | 0.28435 | 12.7 | 0.28922 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.289 |
| 156 | 30.70 | 30.60 | 0.28485 | 12.7 | 0.28973 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.290 |
| 157 | 30.60 | 30.50 | 0.28534 | 12.7 | 0.29023 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.290 |
| 158 | 30.50 | 30.40 | 0.28584 | 12.7 | 0.29074 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.291 |
| 159 | 30.40 | 30.30 | 0.28634 | 12.6 | 0.29124 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.291 |
| 160 | 30.30 | 30.20 | 0.28683 | 12.6 | 0.29175 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.292 |
| 161 | 30.20 | 30.10 | 0.28733 | 12.6 | 0.29225 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.292 |
| 162 | 30.10 | 30.00 | 0.28783 | 12.6 | 0.29276 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.293 |
| 163 | 30.00 | 29.90 | 0.28832 | 12.6 | 0.29326 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.293 |
| 164 | 29.90 | 29.80 | 0.28882 | 12.5 | 0.29377 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.294 |
| 165 | 29.80 | 29.70 | 0.28932 | 12.5 | 0.29427 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.294 |
| 166 | 29.70 | 29.60 | 0.28981 | 12.5 | 0.29478 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.295 |
| 167 | 29.60 | 29.50 | 0.29031 | 12.5 | 0.29528 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.295 |
| 168 | 29.50 | 29.40 | 0.29081 | 12.4 | 0.29579 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.296 |
| 169 | 29.40 | 29.30 | 0.29130 | 12.4 | 0.29629 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.296 |
| 170 | 29.30 | 29.20 | 0.29180 | 12.4 | 0.29680 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.297 |
| TOT | | | | | | 0.38 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.27025 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.48 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 9.40 | 4.22 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 9.40 | 4.22 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 9.40 | 4.23 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 9.40 | 4.23 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 9.40 | 4.23 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 9.40 | 4.24 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 9.40 | 4.24 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 9.40 | 4.24 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 9.40 | 4.24 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 9.40 | 4.38 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92 | 37.000 | 9.40 | 4.39 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 36.900 | 9.40 | 4.39 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 9.40 | 4.39 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 9.40 | 4.39 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 9.40 | 4.40 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 9.40 | 4.40 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 9.40 | 4.40 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 9.40 | 4.40 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 9.40 | 4.40 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 9.40 | 4.41 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 9.40 | 4.41 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 9.40 | 4.41 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 9.40 | 4.41 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 9.40 | 4.42 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 9.40 | 4.42 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 9.40 | 4.42 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 9.40 | 4.42 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 9.40 | 4.43 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 9.40 | 4.43 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 9.40 | 4.43 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 9.40 | 4.43 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 9.40 | 4.43 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 9.40 | 4.44 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 9.40 | 4.44 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 9.40 | 4.44 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 9.40 | 4.44 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 9.40 | 4.45 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 9.40 | 4.45 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 9.40 | 4.45 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 9.40 | 4.45 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 9.40 | 4.46 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 9.40 | 4.46 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 9.40 | 4.46 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 9.40 | 4.46 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 9.40 | 4.46 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 9.40 | 4.47 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 9.40 | 4.47 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 9.40 | 4.47 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 9.40 | 4.47 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 9.40 | 4.48 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 9.40 | 4.48 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 9.40 | 4.48 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 9.40 | 4.48 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 9.40 | 4.48 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 9.40 | 4.49 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 9.40 | 4.49 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 9.40 | 4.49 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 9.40 | 4.49 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 9.40 | 4.50 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 9.40 | 4.50 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 9.40 | 4.50 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 9.40 | 4.50 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 144 | 31.800 | 9.40 | 4.50 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 31.700 | 9.40 | 4.51 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 9.40 | 4.51 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 9.40 | 4.51 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 9.40 | 4.51 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 9.40 | 4.51 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 9.40 | 4.52 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 9.40 | 4.52 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 9.40 | 4.52 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 9.40 | 4.52 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 9.40 | 4.53 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 9.40 | 4.53 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 9.40 | 4.53 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 9.40 | 4.53 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 9.40 | 4.53 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 9.40 | 4.54 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 9.40 | 4.54 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 9.40 | 4.54 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 9.40 | 4.54 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 9.40 | 4.55 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 9.40 | 4.55 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 9.40 | 4.55 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 9.40 | 4.55 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 9.40 | 4.55 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 9.40 | 4.56 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 9.40 | 4.56 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 9.40 | 4.56 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 0.05 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.60 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 18.33 | 0.00 | 7.04 | 171.78 | 7.83 | 14.46 | 0.00 | 14.46 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 18.33 | 0.00 | 7.02 | 171.51 | 7.82 | 14.43 | 0.00 | 14.43 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 18.33 | 0.00 | 7.01 | 171.24 | 7.80 | 14.41 | 0.00 | 14.41 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 18.33 | 0.00 | 6.99 | 170.97 | 7.79 | 14.38 | 0.00 | 14.38 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 18.33 | 0.00 | 6.98 | 170.70 | 7.78 | 14.35 | 0.00 | 14.35 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 18.33 | 0.00 | 6.96 | 170.43 | 7.76 | 14.33 | 0.00 | 14.33 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 18.33 | 0.00 | 6.94 | 170.16 | 7.75 | 14.30 | 0.00 | 14.30 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 18.33 | 0.00 | 6.93 | 169.89 | 7.74 | 14.28 | 0.00 | 14.28 | 0.00 | 2.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 18.33 | 0.00 | 6.91 | 169.63 | 7.73 | 14.25 | 0.00 | 14.25 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 18.33 | 0.00 | 7.09 | 160.46 | 7.42 | 13.26 | 0.00 | 13.26 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 18.33 | 0.00 | 7.07 | 160.25 | 7.42 | 13.24 | 0.00 | 13.24 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 18.33 | 0.00 | 7.06 | 160.03 | 7.42 | 13.22 | 0.00 | 13.22 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 18.33 | 0.00 | 7.05 | 159.82 | 7.42 | 13.20 | 0.00 | 13.20 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 18.33 | 0.00 | 7.03 | 159.60 | 7.41 | 13.18 | 0.00 | 13.18 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96 | 36.600 | 18.33 | 0.00 | 7.02 | 159.39 | 7.41 | 13.16 | 0.00 | 13.16 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 97 | 36.500 | 18.33 | 0.00 | 7.00 | 159.17 | 7.41 | 13.14 | 0.00 | 13.14 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 18.33 | 0.00 | 6.99 | 158.96 | 7.41 | 13.12 | 0.00 | 13.12 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 18.33 | 0.00 | 6.98 | 158.75 | 7.41 | 13.10 | 0.00 | 13.10 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 18.33 | 0.00 | 6.96 | 158.54 | 7.40 | 13.08 | 0.00 | 13.08 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 18.33 | 0.00 | 6.95 | 158.33 | 7.40 | 13.06 | 0.00 | 13.06 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 18.33 | 0.00 | 6.94 | 158.12 | 7.40 | 13.04 | 0.00 | 13.04 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 18.33 | 0.00 | 6.92 | 157.92 | 7.40 | 13.02 | 0.00 | 13.02 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 18.33 | 0.00 | 6.91 | 157.71 | 7.40 | 13.01 | 0.00 | 13.01 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 18.33 | 0.00 | 6.90 | 157.50 | 7.40 | 12.99 | 0.00 | 12.99 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 18.33 | 0.00 | 6.88 | 157.30 | 7.40 | 12.97 | 0.00 | 12.97 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 18.33 | 0.00 | 6.87 | 157.09 | 7.39 | 12.95 | 0.00 | 12.95 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 18.33 | 0.00 | 6.86 | 156.89 | 7.39 | 12.93 | 0.00 | 12.93 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 18.33 | 0.00 | 6.85 | 156.69 | 7.39 | 12.91 | 0.00 | 12.91 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 18.33 | 0.00 | 6.83 | 156.48 | 7.39 | 12.89 | 0.00 | 12.89 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 18.33 | 0.00 | 6.82 | 156.28 | 7.39 | 12.87 | 0.00 | 12.87 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 18.33 | 0.00 | 6.81 | 156.08 | 7.39 | 12.86 | 0.00 | 12.86 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 18.33 | 0.00 | 6.79 | 155.88 | 7.39 | 12.84 | 0.00 | 12.84 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 18.33 | 0.00 | 6.78 | 155.68 | 7.39 | 12.82 | 0.00 | 12.82 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 18.33 | 0.00 | 6.77 | 155.48 | 7.39 | 12.80 | 0.00 | 12.80 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 18.33 | 0.00 | 6.76 | 155.29 | 7.39 | 12.78 | 0.00 | 12.78 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 18.33 | 0.00 | 6.74 | 155.09 | 7.39 | 12.77 | 0.00 | 12.77 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 18.33 | 0.00 | 6.73 | 154.89 | 7.38 | 12.75 | 0.00 | 12.75 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 18.33 | 0.00 | 6.72 | 154.70 | 7.38 | 12.73 | 0.00 | 12.73 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 18.33 | 0.00 | 6.70 | 154.50 | 7.38 | 12.71 | 0.00 | 12.71 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 18.33 | 0.00 | 6.69 | 154.31 | 7.38 | 12.69 | 0.00 | 12.69 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 18.33 | 0.00 | 6.68 | 154.12 | 7.38 | 12.68 | 0.00 | 12.68 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 18.33 | 0.00 | 6.67 | 153.92 | 7.38 | 12.66 | 0.00 | 12.66 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 18.33 | 0.00 | 6.66 | 153.73 | 7.38 | 12.64 | 0.00 | 12.64 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 18.33 | 0.00 | 6.64 | 153.54 | 7.38 | 12.63 | 0.00 | 12.63 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 18.33 | 0.00 | 6.63 | 153.35 | 7.38 | 12.61 | 0.00 | 12.61 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 18.33 | 0.00 | 6.62 | 153.16 | 7.38 | 12.59 | 0.00 | 12.59 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 18.33 | 0.00 | 6.61 | 152.97 | 7.38 | 12.57 | 0.00 | 12.57 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 18.33 | 0.00 | 6.59 | 152.78 | 7.38 | 12.56 | 0.00 | 12.56 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 18.33 | 0.00 | 6.58 | 152.60 | 7.38 | 12.54 | 0.00 | 12.54 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 18.33 | 0.00 | 6.57 | 152.41 | 7.38 | 12.52 | 0.00 | 12.52 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 18.33 | 0.00 | 6.56 | 152.22 | 7.38 | 12.51 | 0.00 | 12.51 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 18.33 | 0.00 | 6.55 | 152.04 | 7.38 | 12.49 | 0.00 | 12.49 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 18.33 | 0.00 | 6.53 | 151.85 | 7.38 | 12.47 | 0.00 | 12.47 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 18.33 | 0.00 | 6.52 | 151.67 | 7.38 | 12.46 | 0.00 | 12.46 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 18.33 | 0.00 | 6.51 | 151.48 | 7.38 | 12.44 | 0.00 | 12.44 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 18.33 | 0.00 | 6.50 | 151.30 | 7.38 | 12.42 | 0.00 | 12.42 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 18.33 | 0.00 | 6.49 | 151.12 | 7.38 | 12.41 | 0.00 | 12.41 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 18.33 | 0.00 | 6.48 | 150.94 | 7.38 | 12.39 | 0.00 | 12.39 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 18.33 | 0.00 | 6.46 | 150.76 | 7.38 | 12.38 | 0.00 | 12.38 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 18.33 | 0.00 | 6.45 | 150.57 | 7.38 | 12.36 | 0.00 | 12.36 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 18.33 | 0.00 | 6.44 | 150.39 | 7.38 | 12.34 | 0.00 | 12.34 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 18.33 | 0.00 | 6.43 | 150.22 | 7.38 | 12.33 | 0.00 | 12.33 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 18.33 | 0.00 | 6.42 | 150.04 | 7.38 | 12.31 | 0.00 | 12.31 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 18.33 | 0.00 | 6.41 | 149.86 | 7.38 | 12.30 | 0.00 | 12.30 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 18.33 | 0.00 | 6.40 | 149.68 | 7.38 | 12.28 | 0.00 | 12.28 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 18.33 | 0.00 | 6.38 | 149.51 | 7.38 | 12.26 | 0.00 | 12.26 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 148 | 31.400 | 18.33 | 0.00 | 6.37 | 149.33 | 7.38 | 12.25 | 0.00 | 12.25 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 149 | 31.300 | 18.33 | 0.00 | 6.36 | 149.15 | 7.38 | 12.23 | 0.00 | 12.23 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 18.33 | 0.00 | 6.35 | 148.98 | 7.38 | 12.22 | 0.00 | 12.22 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 18.33 | 0.00 | 6.34 | 148.81 | 7.38 | 12.20 | 0.00 | 12.20 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 18.33 | 0.00 | 6.33 | 148.63 | 7.38 | 12.19 | 0.00 | 12.19 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 18.33 | 0.00 | 6.32 | 148.46 | 7.38 | 12.17 | 0.00 | 12.17 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 18.33 | 0.00 | 6.31 | 148.29 | 7.38 | 12.16 | 0.00 | 12.16 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 18.33 | 0.00 | 6.30 | 148.12 | 7.38 | 12.14 | 0.00 | 12.14 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 18.33 | 0.00 | 6.28 | 147.94 | 7.38 | 12.13 | 0.00 | 12.13 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 18.33 | 0.00 | 6.27 | 147.77 | 7.38 | 12.11 | 0.00 | 12.11 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 18.33 | 0.00 | 6.26 | 147.60 | 7.38 | 12.10 | 0.00 | 12.10 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 18.33 | 0.00 | 6.25 | 147.43 | 7.38 | 12.08 | 0.00 | 12.08 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 18.33 | 0.00 | 6.24 | 147.27 | 7.38 | 12.07 | 0.00 | 12.07 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 18.33 | 0.00 | 6.23 | 147.10 | 7.38 | 12.05 | 0.00 | 12.05 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 18.33 | 0.00 | 6.22 | 146.93 | 7.38 | 12.04 | 0.00 | 12.04 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 18.33 | 0.00 | 6.21 | 146.76 | 7.38 | 12.02 | 0.00 | 12.02 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 18.33 | 0.00 | 6.20 | 146.60 | 7.38 | 12.01 | 0.00 | 12.01 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 18.33 | 0.00 | 6.19 | 146.43 | 7.38 | 11.99 | 0.00 | 11.99 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 18.33 | 0.00 | 6.18 | 146.27 | 7.38 | 11.98 | 0.00 | 11.98 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 18.33 | 0.00 | 6.17 | 146.10 | 7.38 | 11.97 | 0.00 | 11.97 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 18.33 | 0.00 | 6.16 | 145.94 | 7.38 | 11.95 | 0.00 | 11.95 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 18.33 | 0.00 | 6.14 | 145.77 | 7.38 | 11.94 | 0.00 | 11.94 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.92 | 0.00 | 11.92 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK WINTER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.29180 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.92 | 0.00 | 11.92 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 172 | 29.10 | 29.00 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 173 | 29.00 | 28.90 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 174 | 28.90 | 28.80 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 175 | 28.80 | 28.70 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 176 | 28.70 | 28.60 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 177 | 28.60 | 28.50 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 178 | 28.50 | 28.40 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 179 | 28.40 | 28.30 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180 | 28.30 | 28.20 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 181 | 28.20 | 28.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 182 | 28.10 | 28.00 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 183 | 28.00 | 27.90 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 184 | 27.90 | 27.80 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 185 | 27.80 | 27.70 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 186 | 27.70 | 27.60 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 187 | 27.60 | 27.50 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 188 | 27.50 | 27.40 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 189 | 27.40 | 27.30 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 190 | 27.30 | 27.20 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 191 | 27.20 | 27.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 192 | 27.10 | 27.00 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 193 | 27.00 | 26.90 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 194 | 26.90 | 26.80 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 195 | 26.80 | 26.70 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 196 | 26.70 | 26.60 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 197 | 26.60 | 26.50 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 198 | 26.50 | 26.40 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 199 | 26.40 | 26.30 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 200 | 26.30 | 26.20 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 201 | 26.20 | 26.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 202 | 26.10 | 26.00 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 203 | 26.00 | 25.90 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 204 | 25.90 | 25.80 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 205 | 25.80 | 25.70 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 206 | 25.70 | 25.60 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 207 | 25.60 | 25.50 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 208 | 25.50 | 25.40 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 209 | 25.40 | 25.30 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 210 | 25.30 | 25.20 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 211 | 25.20 | 25.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 212 | 25.10 | 25.00 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 213 | 25.00 | 24.90 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 214 | 24.90 | 24.80 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 215 | 24.80 | 24.70 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 216 | 24.70 | 24.60 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 217 | 24.60 | 24.50 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 218 | 24.50 | 24.40 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 219 | 24.40 | 24.30 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 220 | 24.30 | 24.20 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| 221 | 24.20 | 24.10 | 0.29180 | 12.4 | 0.08211 | 0.01 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.082 |
| TOT | | | | | | 0.72 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.08211 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.20 | | | | | | | | | |

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

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

| | | mg/L | 1/da | 1/da | 1/da | 1/da | 1/da | 1/da | 1/da | * | * | * | 1/da | 1/da | 1/da | * | 1/da | * | ** | ** | 1/da | 1/da | 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 24.100 | 9.40 | 1.96 | 0.06 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.06 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 2.02 | 0.07 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.47 | | | 0.07 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.91 | 0.00 | 11.91 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.90 | 0.00 | 11.90 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.89 | 0.00 | 11.89 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.87 | 0.00 | 11.87 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.86 | 0.00 | 11.86 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.85 | 0.00 | 11.85 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.84 | 0.00 | 11.84 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.83 | 0.00 | 11.83 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.82 | 0.00 | 11.82 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.80 | 0.00 | 11.80 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.79 | 0.00 | 11.79 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.78 | 0.00 | 11.78 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.77 | 0.00 | 11.77 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.76 | 0.00 | 11.76 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.75 | 0.00 | 11.75 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.73 | 0.00 | 11.73 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.72 | 0.00 | 11.72 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.71 | 0.00 | 11.71 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.70 | 0.00 | 11.70 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.69 | 0.00 | 11.69 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.68 | 0.00 | 11.68 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.67 | 0.00 | 11.67 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.65 | 0.00 | 11.65 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.64 | 0.00 | 11.64 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.63 | 0.00 | 11.63 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.62 | 0.00 | 11.62 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.61 | 0.00 | 11.61 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.60 | 0.00 | 11.60 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.59 | 0.00 | 11.59 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.58 | 0.00 | 11.58 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.56 | 0.00 | 11.56 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.55 | 0.00 | 11.55 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.54 | 0.00 | 11.54 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.53 | 0.00 | 11.53 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.52 | 0.00 | 11.52 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.51 | 0.00 | 11.51 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.50 | 0.00 | 11.50 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.49 | 0.00 | 11.49 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.48 | 0.00 | 11.48 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.47 | 0.00 | 11.47 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 211 | 25.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.46 | 0.00 | 11.46 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 212 | 25.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.45 | 0.00 | 11.45 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.43 | 0.00 | 11.43 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.42 | 0.00 | 11.42 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.41 | 0.00 | 11.41 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.40 | 0.00 | 11.40 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.39 | 0.00 | 11.39 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.38 | 0.00 | 11.38 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.37 | 0.00 | 11.37 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.36 | 0.00 | 11.36 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.35 | 0.00 | 11.35 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK WINTER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.29180 | 18.33 | 0.00 | 6.13 | 145.61 | 7.43 | 11.35 | 0.00 | 11.35 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.02800 | 18.33 | 0.05 | 11.50 | 123.40 | 5.00 | 6.94 | 0.00 | 6.94 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.29175 | 12.4 | 0.04433 | 0.03 | 0.59 | 11.10 | 658.12 | 1109.81 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 223 | 24.00 | 23.90 | 0.29170 | 12.4 | 0.04432 | 0.03 | 0.59 | 11.10 | 658.11 | 1109.80 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 224 | 23.90 | 23.80 | 0.29164 | 12.4 | 0.04432 | 0.03 | 0.59 | 11.10 | 658.11 | 1109.79 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 225 | 23.80 | 23.70 | 0.29159 | 12.4 | 0.04431 | 0.03 | 0.59 | 11.10 | 658.10 | 1109.79 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 226 | 23.70 | 23.60 | 0.29154 | 12.4 | 0.04430 | 0.03 | 0.59 | 11.10 | 658.10 | 1109.78 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 227 | 23.60 | 23.50 | 0.29149 | 12.4 | 0.04429 | 0.03 | 0.59 | 11.10 | 658.10 | 1109.77 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 228 | 23.50 | 23.40 | 0.29144 | 12.4 | 0.04429 | 0.03 | 0.59 | 11.10 | 658.09 | 1109.77 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 229 | 23.40 | 23.30 | 0.29138 | 12.4 | 0.04428 | 0.03 | 0.59 | 11.10 | 658.09 | 1109.76 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 230 | 23.30 | 23.20 | 0.29133 | 12.4 | 0.04427 | 0.03 | 0.59 | 11.10 | 658.08 | 1109.75 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 231 | 23.20 | 23.10 | 0.29128 | 12.4 | 0.04426 | 0.03 | 0.59 | 11.10 | 658.08 | 1109.74 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 232 | 23.10 | 23.00 | 0.29123 | 12.4 | 0.04425 | 0.03 | 0.59 | 11.10 | 658.07 | 1109.74 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 233 | 23.00 | 22.90 | 0.29118 | 12.4 | 0.04425 | 0.03 | 0.59 | 11.10 | 658.07 | 1109.73 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 234 | 22.90 | 22.80 | 0.29112 | 12.4 | 0.04424 | 0.03 | 0.59 | 11.10 | 658.07 | 1109.72 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 235 | 22.80 | 22.70 | 0.29107 | 12.4 | 0.04423 | 0.03 | 0.59 | 11.10 | 658.06 | 1109.72 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 236 | 22.70 | 22.60 | 0.29102 | 12.4 | 0.04422 | 0.03 | 0.59 | 11.10 | 658.06 | 1109.71 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 237 | 22.60 | 22.50 | 0.29097 | 12.4 | 0.04422 | 0.03 | 0.59 | 11.10 | 658.05 | 1109.70 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 238 | 22.50 | 22.40 | 0.29092 | 12.4 | 0.04421 | 0.03 | 0.59 | 11.10 | 658.05 | 1109.70 | 6.58 | 0.00 | 0.000 | 0.000 | 0.044 |
| 239 | 22.40 | 22.30 | 0.31886 | 20.1 | 0.04830 | 0.02 | 0.59 | 11.13 | 660.19 | 1113.31 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 240 | 22.30 | 22.20 | 0.31881 | 20.1 | 0.04829 | 0.02 | 0.59 | 11.13 | 660.19 | 1113.31 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 22.20 | 22.10 | 0.31876 | 20.1 | 0.04828 | 0.02 | 0.59 | 11.13 | 660.19 | 1113.30 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 242 | 22.10 | 22.00 | 0.31871 | 20.1 | 0.04828 | 0.02 | 0.59 | 11.13 | 660.18 | 1113.29 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 243 | 22.00 | 21.90 | 0.31866 | 20.1 | 0.04827 | 0.02 | 0.59 | 11.13 | 660.18 | 1113.29 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 244 | 21.90 | 21.80 | 0.31860 | 20.1 | 0.04826 | 0.02 | 0.59 | 11.13 | 660.17 | 1113.28 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 245 | 21.80 | 21.70 | 0.31855 | 20.1 | 0.04825 | 0.02 | 0.59 | 11.13 | 660.17 | 1113.27 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 246 | 21.70 | 21.60 | 0.31850 | 20.1 | 0.04825 | 0.02 | 0.59 | 11.13 | 660.17 | 1113.27 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 247 | 21.60 | 21.50 | 0.31845 | 20.1 | 0.04824 | 0.02 | 0.59 | 11.13 | 660.16 | 1113.26 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 248 | 21.50 | 21.40 | 0.31840 | 20.1 | 0.04823 | 0.02 | 0.59 | 11.13 | 660.16 | 1113.25 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 249 | 21.40 | 21.30 | 0.31834 | 20.1 | 0.04822 | 0.02 | 0.59 | 11.13 | 660.16 | 1113.25 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 250 | 21.30 | 21.20 | 0.31829 | 20.1 | 0.04822 | 0.02 | 0.59 | 11.13 | 660.15 | 1113.24 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 251 | 21.20 | 21.10 | 0.31824 | 20.1 | 0.04821 | 0.02 | 0.59 | 11.13 | 660.15 | 1113.23 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 252 | 21.10 | 21.00 | 0.31819 | 20.1 | 0.04820 | 0.02 | 0.59 | 11.13 | 660.14 | 1113.23 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 253 | 21.00 | 20.90 | 0.31814 | 20.1 | 0.04819 | 0.02 | 0.59 | 11.13 | 660.14 | 1113.22 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 254 | 20.90 | 20.80 | 0.31808 | 20.1 | 0.04818 | 0.02 | 0.59 | 11.13 | 660.14 | 1113.21 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 255 | 20.80 | 20.70 | 0.31803 | 20.1 | 0.04818 | 0.02 | 0.59 | 11.13 | 660.13 | 1113.21 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 256 | 20.70 | 20.60 | 0.31798 | 20.1 | 0.04817 | 0.02 | 0.59 | 11.13 | 660.13 | 1113.20 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 257 | 20.60 | 20.50 | 0.31793 | 20.1 | 0.04816 | 0.02 | 0.59 | 11.13 | 660.12 | 1113.20 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 258 | 20.50 | 20.40 | 0.31788 | 20.1 | 0.04815 | 0.02 | 0.59 | 11.13 | 660.12 | 1113.19 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 259 | 20.40 | 20.30 | 0.31782 | 20.1 | 0.04815 | 0.02 | 0.59 | 11.13 | 660.12 | 1113.18 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 260 | 20.30 | 20.20 | 0.31777 | 20.1 | 0.04814 | 0.02 | 0.59 | 11.13 | 660.11 | 1113.18 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 261 | 20.20 | 20.10 | 0.31772 | 20.1 | 0.04813 | 0.02 | 0.59 | 11.13 | 660.11 | 1113.17 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 262 | 20.10 | 20.00 | 0.31767 | 20.1 | 0.04812 | 0.02 | 0.59 | 11.13 | 660.11 | 1113.16 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 263 | 20.00 | 19.90 | 0.31762 | 20.1 | 0.04812 | 0.02 | 0.59 | 11.13 | 660.10 | 1113.16 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 264 | 19.90 | 19.80 | 0.31756 | 20.1 | 0.04811 | 0.02 | 0.59 | 11.13 | 660.10 | 1113.15 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 265 | 19.80 | 19.70 | 0.31751 | 20.1 | 0.04810 | 0.02 | 0.59 | 11.13 | 660.09 | 1113.14 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 266 | 19.70 | 19.60 | 0.31746 | 20.1 | 0.04809 | 0.02 | 0.59 | 11.13 | 660.09 | 1113.14 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 267 | 19.60 | 19.50 | 0.31741 | 20.1 | 0.04809 | 0.02 | 0.59 | 11.13 | 660.09 | 1113.13 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 268 | 19.50 | 19.40 | 0.31736 | 20.1 | 0.04808 | 0.02 | 0.59 | 11.13 | 660.08 | 1113.12 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 269 | 19.40 | 19.30 | 0.31730 | 20.1 | 0.04807 | 0.02 | 0.59 | 11.13 | 660.08 | 1113.12 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 270 | 19.30 | 19.20 | 0.31725 | 20.1 | 0.04806 | 0.02 | 0.59 | 11.13 | 660.07 | 1113.11 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 271 | 19.20 | 19.10 | 0.31720 | 20.1 | 0.04806 | 0.02 | 0.59 | 11.13 | 660.07 | 1113.10 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 272 | 19.10 | 19.00 | 0.31715 | 20.1 | 0.04805 | 0.02 | 0.59 | 11.13 | 660.07 | 1113.10 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 273 | 19.00 | 18.90 | 0.31710 | 20.1 | 0.04804 | 0.02 | 0.59 | 11.13 | 660.06 | 1113.09 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 274 | 18.90 | 18.80 | 0.31705 | 20.1 | 0.04803 | 0.02 | 0.59 | 11.13 | 660.06 | 1113.08 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 275 | 18.80 | 18.70 | 0.31699 | 20.1 | 0.04803 | 0.02 | 0.59 | 11.13 | 660.06 | 1113.08 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 276 | 18.70 | 18.60 | 0.31694 | 20.1 | 0.04802 | 0.02 | 0.59 | 11.13 | 660.05 | 1113.07 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 277 | 18.60 | 18.50 | 0.31689 | 20.1 | 0.04801 | 0.02 | 0.59 | 11.13 | 660.05 | 1113.07 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 278 | 18.50 | 18.40 | 0.31684 | 20.1 | 0.04800 | 0.02 | 0.59 | 11.13 | 660.04 | 1113.06 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 279 | 18.40 | 18.30 | 0.31679 | 20.1 | 0.04799 | 0.02 | 0.59 | 11.13 | 660.04 | 1113.05 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 280 | 18.30 | 18.20 | 0.31673 | 20.1 | 0.04799 | 0.02 | 0.59 | 11.13 | 660.04 | 1113.05 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 281 | 18.20 | 18.10 | 0.31668 | 20.1 | 0.04798 | 0.02 | 0.59 | 11.13 | 660.03 | 1113.04 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 282 | 18.10 | 18.00 | 0.31663 | 20.1 | 0.04797 | 0.02 | 0.59 | 11.13 | 660.03 | 1113.03 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 283 | 18.00 | 17.90 | 0.31658 | 20.1 | 0.04796 | 0.02 | 0.59 | 11.13 | 660.02 | 1113.03 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 284 | 17.90 | 17.80 | 0.31653 | 20.1 | 0.04796 | 0.02 | 0.59 | 11.13 | 660.02 | 1113.02 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 285 | 17.80 | 17.70 | 0.31647 | 20.1 | 0.04795 | 0.02 | 0.59 | 11.13 | 660.02 | 1113.01 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 286 | 17.70 | 17.60 | 0.31642 | 20.1 | 0.04794 | 0.02 | 0.59 | 11.13 | 660.01 | 1113.01 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 287 | 17.60 | 17.50 | 0.31637 | 20.1 | 0.04793 | 0.02 | 0.59 | 11.13 | 660.01 | 1113.00 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 288 | 17.50 | 17.40 | 0.31632 | 20.1 | 0.04793 | 0.02 | 0.59 | 11.13 | 660.01 | 1112.99 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 289 | 17.40 | 17.30 | 0.31627 | 20.1 | 0.04792 | 0.02 | 0.59 | 11.13 | 660.00 | 1112.99 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 290 | 17.30 | 17.20 | 0.31621 | 20.1 | 0.04791 | 0.02 | 0.59 | 11.13 | 660.00 | 1112.98 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 291 | 17.20 | 17.10 | 0.31616 | 20.1 | 0.04790 | 0.02 | 0.59 | 11.13 | 659.99 | 1112.97 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 292 | 17.10 | 17.00 | 0.31611 | 20.1 | 0.04790 | 0.02 | 0.59 | 11.13 | 659.99 | 1112.97 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 293 | 17.00 | 16.90 | 0.31606 | 20.1 | 0.04789 | 0.02 | 0.59 | 11.13 | 659.99 | 1112.96 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 294 | 16.90 | 16.80 | 0.31601 | 20.1 | 0.04788 | 0.02 | 0.59 | 11.13 | 659.98 | 1112.95 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 295 | 16.80 | 16.70 | 0.31595 | 20.1 | 0.04787 | 0.02 | 0.59 | 11.13 | 659.98 | 1112.95 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 296 | 16.70 | 16.60 | 0.31590 | 20.1 | 0.04787 | 0.02 | 0.59 | 11.13 | 659.97 | 1112.94 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 297 | 16.60 | 16.50 | 0.31585 | 20.1 | 0.04786 | 0.02 | 0.59 | 11.13 | 659.97 | 1112.93 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 298 | 16.50 | 16.40 | 0.31580 | 20.1 | 0.04785 | 0.02 | 0.59 | 11.13 | 659.97 | 1112.93 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 299 | 16.40 | 16.30 | 0.31575 | 20.1 | 0.04784 | 0.02 | 0.59 | 11.13 | 659.96 | 1112.92 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 300 | 16.30 | 16.20 | 0.31569 | 20.1 | 0.04784 | 0.02 | 0.59 | 11.13 | 659.96 | 1112.91 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 301 | 16.20 | 16.10 | 0.31564 | 20.1 | 0.04783 | 0.02 | 0.59 | 11.13 | 659.95 | 1112.91 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 302 | 16.10 | 16.00 | 0.31559 | 20.1 | 0.04782 | 0.02 | 0.59 | 11.13 | 659.95 | 1112.90 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 303 | 16.00 | 15.90 | 0.31554 | 20.1 | 0.04781 | 0.02 | 0.59 | 11.13 | 659.95 | 1112.90 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 304 | 15.90 | 15.80 | 0.31549 | 20.1 | 0.04781 | 0.02 | 0.59 | 11.13 | 659.94 | 1112.89 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 305 | 15.80 | 15.70 | 0.31543 | 20.1 | 0.04780 | 0.02 | 0.59 | 11.13 | 659.94 | 1112.88 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 306 | 15.70 | 15.60 | 0.31538 | 20.1 | 0.04779 | 0.02 | 0.59 | 11.13 | 659.94 | 1112.88 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 307 | 15.60 | 15.50 | 0.31533 | 20.1 | 0.04778 | 0.02 | 0.59 | 11.13 | 659.93 | 1112.87 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 308 | 15.50 | 15.40 | 0.31528 | 20.1 | 0.04777 | 0.02 | 0.59 | 11.13 | 659.93 | 1112.86 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 309 | 15.40 | 15.30 | 0.31523 | 20.1 | 0.04777 | 0.02 | 0.59 | 11.13 | 659.92 | 1112.86 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 310 | 15.30 | 15.20 | 0.31517 | 20.1 | 0.04776 | 0.02 | 0.59 | 11.13 | 659.92 | 1112.85 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 311 | 15.20 | 15.10 | 0.31512 | 20.1 | 0.04775 | 0.02 | 0.59 | 11.13 | 659.92 | 1112.84 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 312 | 15.10 | 15.00 | 0.31507 | 20.1 | 0.04774 | 0.02 | 0.59 | 11.13 | 659.91 | 1112.84 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 313 | 15.00 | 14.90 | 0.31502 | 20.1 | 0.04774 | 0.02 | 0.59 | 11.13 | 659.91 | 1112.83 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 314 | 14.90 | 14.80 | 0.31497 | 20.1 | 0.04773 | 0.02 | 0.59 | 11.13 | 659.90 | 1112.82 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 315 | 14.80 | 14.70 | 0.31491 | 20.1 | 0.04772 | 0.02 | 0.59 | 11.13 | 659.90 | 1112.82 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 316 | 14.70 | 14.60 | 0.31486 | 20.1 | 0.04771 | 0.02 | 0.59 | 11.13 | 659.90 | 1112.81 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 317 | 14.60 | 14.50 | 0.31481 | 20.1 | 0.04771 | 0.02 | 0.59 | 11.13 | 659.89 | 1112.80 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 318 | 14.50 | 14.40 | 0.31476 | 20.1 | 0.04770 | 0.02 | 0.59 | 11.13 | 659.89 | 1112.80 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 319 | 14.40 | 14.30 | 0.31471 | 20.1 | 0.04769 | 0.02 | 0.59 | 11.13 | 659.88 | 1112.79 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 320 | 14.30 | 14.20 | 0.31465 | 20.1 | 0.04768 | 0.02 | 0.59 | 11.13 | 659.88 | 1112.78 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 321 | 14.20 | 14.10 | 0.31460 | 20.1 | 0.04768 | 0.02 | 0.59 | 11.13 | 659.88 | 1112.78 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 322 | 14.10 | 14.00 | 0.31455 | 20.1 | 0.04767 | 0.02 | 0.59 | 11.13 | 659.87 | 1112.77 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 323 | 14.00 | 13.90 | 0.31450 | 20.1 | 0.04766 | 0.02 | 0.59 | 11.13 | 659.87 | 1112.76 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 324 | 13.90 | 13.80 | 0.31445 | 20.1 | 0.04765 | 0.02 | 0.59 | 11.13 | 659.87 | 1112.76 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 325 | 13.80 | 13.70 | 0.31439 | 20.1 | 0.04765 | 0.02 | 0.59 | 11.13 | 659.86 | 1112.75 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 326 | 13.70 | 13.60 | 0.31434 | 20.1 | 0.04764 | 0.02 | 0.59 | 11.13 | 659.86 | 1112.74 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 327 | 13.60 | 13.50 | 0.31429 | 20.1 | 0.04763 | 0.02 | 0.59 | 11.13 | 659.85 | 1112.74 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 328 | 13.50 | 13.40 | 0.31424 | 20.1 | 0.04762 | 0.02 | 0.59 | 11.13 | 659.85 | 1112.73 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 329 | 13.40 | 13.30 | 0.31419 | 20.1 | 0.04762 | 0.02 | 0.59 | 11.13 | 659.85 | 1112.73 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 330 | 13.30 | 13.20 | 0.31413 | 20.1 | 0.04761 | 0.02 | 0.59 | 11.13 | 659.84 | 1112.72 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 331 | 13.20 | 13.10 | 0.31408 | 20.1 | 0.04760 | 0.02 | 0.59 | 11.13 | 659.84 | 1112.71 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 332 | 13.10 | 13.00 | 0.31403 | 20.1 | 0.04759 | 0.02 | 0.59 | 11.13 | 659.83 | 1112.71 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 333 | 13.00 | 12.90 | 0.31398 | 20.1 | 0.04758 | 0.02 | 0.59 | 11.13 | 659.83 | 1112.70 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 334 | 12.90 | 12.80 | 0.31393 | 20.1 | 0.04758 | 0.02 | 0.59 | 11.13 | 659.83 | 1112.69 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 335 | 12.80 | 12.70 | 0.31387 | 20.1 | 0.04757 | 0.02 | 0.59 | 11.13 | 659.82 | 1112.69 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 336 | 12.70 | 12.60 | 0.31382 | 20.1 | 0.04756 | 0.02 | 0.59 | 11.13 | 659.82 | 1112.68 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 337 | 12.60 | 12.50 | 0.31377 | 20.1 | 0.04755 | 0.02 | 0.59 | 11.13 | 659.81 | 1112.67 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 338 | 12.50 | 12.40 | 0.31372 | 20.1 | 0.04755 | 0.02 | 0.59 | 11.13 | 659.81 | 1112.67 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 339 | 12.40 | 12.30 | 0.31367 | 20.1 | 0.04754 | 0.02 | 0.59 | 11.13 | 659.81 | 1112.66 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 340 | 12.30 | 12.20 | 0.31361 | 20.1 | 0.04753 | 0.02 | 0.59 | 11.13 | 659.80 | 1112.65 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 341 | 12.20 | 12.10 | 0.31356 | 20.1 | 0.04752 | 0.02 | 0.59 | 11.13 | 659.80 | 1112.65 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 342 | 12.10 | 12.00 | 0.31351 | 20.1 | 0.04752 | 0.02 | 0.59 | 11.13 | 659.80 | 1112.64 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 343 | 12.00 | 11.90 | 0.31346 | 20.1 | 0.04751 | 0.02 | 0.59 | 11.13 | 659.79 | 1112.63 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |
| 344 | 11.90 | 11.80 | 0.31341 | 20.1 | 0.04750 | 0.02 | 0.59 | 11.13 | 659.79 | 1112.63 | 6.60 | 0.00 | 0.000 | 0.000 | 0.048 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 11.80 | 11.70 | 0.31335 | 20.1 | 0.04749 | 0.02 | 0.59 | 11.13 | 659.78 | 1112.62 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 346 | 11.70 | 11.60 | 0.31330 | 20.1 | 0.04749 | 0.02 | 0.59 | 11.13 | 659.78 | 1112.61 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 347 | 11.60 | 11.50 | 0.31325 | 20.1 | 0.04748 | 0.02 | 0.59 | 11.13 | 659.78 | 1112.61 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 348 | 11.50 | 11.40 | 0.31320 | 20.1 | 0.04747 | 0.02 | 0.59 | 11.13 | 659.77 | 1112.60 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 349 | 11.40 | 11.30 | 0.31315 | 20.1 | 0.04746 | 0.02 | 0.59 | 11.13 | 659.77 | 1112.59 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 350 | 11.30 | 11.20 | 0.31310 | 20.1 | 0.04746 | 0.02 | 0.59 | 11.13 | 659.76 | 1112.59 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 351 | 11.20 | 11.10 | 0.31304 | 20.1 | 0.04745 | 0.02 | 0.59 | 11.13 | 659.76 | 1112.58 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 352 | 11.10 | 11.00 | 0.31299 | 20.1 | 0.04744 | 0.02 | 0.59 | 11.13 | 659.76 | 1112.57 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 353 | 11.00 | 10.90 | 0.31294 | 20.1 | 0.04743 | 0.02 | 0.59 | 11.13 | 659.75 | 1112.57 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 354 | 10.90 | 10.80 | 0.31289 | 20.1 | 0.04743 | 0.02 | 0.59 | 11.13 | 659.75 | 1112.56 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 355 | 10.80 | 10.70 | 0.31284 | 20.1 | 0.04742 | 0.02 | 0.59 | 11.13 | 659.74 | 1112.55 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 356 | 10.70 | 10.60 | 0.31278 | 20.1 | 0.04741 | 0.02 | 0.59 | 11.13 | 659.74 | 1112.55 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 357 | 10.60 | 10.50 | 0.31273 | 20.1 | 0.04740 | 0.02 | 0.59 | 11.13 | 659.74 | 1112.54 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 358 | 10.50 | 10.40 | 0.31268 | 20.1 | 0.04739 | 0.02 | 0.59 | 11.13 | 659.73 | 1112.53 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 359 | 10.40 | 10.30 | 0.31263 | 20.1 | 0.04739 | 0.02 | 0.59 | 11.13 | 659.73 | 1112.53 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 360 | 10.30 | 10.20 | 0.31258 | 20.1 | 0.04738 | 0.02 | 0.59 | 11.13 | 659.73 | 1112.52 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 361 | 10.20 | 10.10 | 0.31252 | 20.1 | 0.04737 | 0.02 | 0.59 | 11.13 | 659.72 | 1112.51 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 362 | 10.10 | 10.00 | 0.31247 | 20.1 | 0.04736 | 0.02 | 0.59 | 11.13 | 659.72 | 1112.51 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 363 | 10.00 | 9.90 | 0.31242 | 20.1 | 0.04736 | 0.02 | 0.59 | 11.13 | 659.71 | 1112.50 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 364 | 9.90 | 9.80 | 0.31237 | 20.1 | 0.04735 | 0.02 | 0.59 | 11.12 | 659.71 | 1112.49 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 365 | 9.80 | 9.70 | 0.31232 | 20.1 | 0.04734 | 0.02 | 0.59 | 11.12 | 659.71 | 1112.49 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 366 | 9.70 | 9.60 | 0.31226 | 20.1 | 0.04733 | 0.02 | 0.59 | 11.12 | 659.70 | 1112.48 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 367 | 9.60 | 9.50 | 0.31221 | 20.1 | 0.04733 | 0.02 | 0.59 | 11.12 | 659.70 | 1112.47 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 368 | 9.50 | 9.40 | 0.31216 | 20.1 | 0.04732 | 0.02 | 0.59 | 11.12 | 659.69 | 1112.47 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 369 | 9.40 | 9.30 | 0.31211 | 20.1 | 0.04731 | 0.02 | 0.59 | 11.12 | 659.69 | 1112.46 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 370 | 9.30 | 9.20 | 0.31206 | 20.1 | 0.04730 | 0.02 | 0.59 | 11.12 | 659.69 | 1112.46 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 371 | 9.20 | 9.10 | 0.31200 | 20.1 | 0.04730 | 0.02 | 0.59 | 11.12 | 659.68 | 1112.45 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 372 | 9.10 | 9.00 | 0.31195 | 20.1 | 0.04729 | 0.02 | 0.59 | 11.12 | 659.68 | 1112.44 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| 373 | 9.00 | 8.90 | 0.31190 | 20.1 | 0.04728 | 0.02 | 0.59 | 11.12 | 659.67 | 1112.44 | 6.60 | 0.00 | 0.000 | 0.000 | 0.047 |
| TOT | | | | | | 3.71 | | | 100278.56 | 169103.92 | | | | | |
| AVG | | | | | 0.04737 | | 0.59 | 11.13 | | | 6.60 | | | | |
| CUM | | | | | | 4.91 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | 22.900 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 22.800 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 9.40 | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 9.40 | 1.30 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 285 | 17.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 286 | 17.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 12.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 338 | 12.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 9.40 | 1.29 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 | 1.15 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.33 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.42 | 11.35 | 0.00 | 11.35 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.35 | 0.00 | 11.35 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.41 | 11.34 | 0.00 | 11.34 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.34 | 0.00 | 11.34 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 226 | 23.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.40 | 11.34 | 0.00 | 11.34 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 227 | 23.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.33 | 0.00 | 11.33 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.39 | 11.33 | 0.00 | 11.33 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 18.33 | 0.00 | 6.13 | 145.61 | 7.38 | 11.33 | 0.00 | 11.33 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 18.33 | 0.00 | 6.13 | 145.61 | 7.38 | 11.33 | 0.00 | 11.33 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 18.33 | 0.00 | 6.13 | 145.61 | 7.37 | 11.32 | 0.00 | 11.32 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 18.33 | 0.00 | 6.13 | 145.61 | 7.37 | 11.32 | 0.00 | 11.32 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 18.33 | 0.00 | 6.13 | 145.61 | 7.36 | 11.32 | 0.00 | 11.32 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 18.33 | 0.00 | 6.13 | 145.61 | 7.36 | 11.32 | 0.00 | 11.32 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 18.33 | 0.00 | 6.13 | 145.61 | 7.35 | 11.31 | 0.00 | 11.31 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 18.33 | 0.00 | 6.13 | 145.61 | 7.35 | 11.31 | 0.00 | 11.31 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 18.33 | 0.00 | 6.13 | 145.61 | 7.34 | 11.31 | 0.00 | 11.31 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 18.33 | 0.00 | 6.13 | 145.61 | 7.34 | 11.31 | 0.00 | 11.31 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.14 | 10.92 | 0.00 | 10.92 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.14 | 10.92 | 0.00 | 10.92 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.15 | 10.92 | 0.00 | 10.92 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.15 | 10.92 | 0.00 | 10.92 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.16 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.16 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.17 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.17 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.17 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.18 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.18 | 10.91 | 0.00 | 10.91 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.18 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.19 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.19 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.19 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.20 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.20 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.20 | 10.90 | 0.00 | 10.90 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.20 | 10.89 | 0.00 | 10.89 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.21 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.21 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.21 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.21 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.22 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.22 | 10.89 | 0.00 | 10.89 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.22 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.22 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.88 | 0.00 | 10.88 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.23 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.24 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 278 | 18.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.87 | 0.00 | 10.87 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 279 | 18.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.25 | 10.86 | 0.00 | 10.86 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.85 | 0.00 | 10.85 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.26 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.84 | 0.00 | 10.84 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.83 | 0.00 | 10.83 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.82 | 0.00 | 10.82 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.27 | 10.82 | 0.00 | 10.82 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.82 | 0.00 | 10.82 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.81 | 0.00 | 10.81 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 330 | 13.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 331 | 13.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.80 | 0.00 | 10.80 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.79 | 0.00 | 10.79 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.28 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.78 | 0.00 | 10.78 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.77 | 0.00 | 10.77 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.76 | 0.00 | 10.76 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.75 | 0.00 | 10.75 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.75 | 0.00 | 10.75 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.75 | 0.00 | 10.75 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK WINTER RUN WITH 60% REDUCTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.31190 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.75 | 0.00 | 10.75 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 375 | 8.80 | 8.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 376 | 8.70 | 8.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 377 | 8.60 | 8.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 378 | 8.50 | 8.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 379 | 8.40 | 8.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 380 | 8.30 | 8.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 381 | 8.20 | 8.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 382 | 8.10 | 8.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 383 | 8.00 | 7.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 384 | 7.90 | 7.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 385 | 7.80 | 7.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 386 | 7.70 | 7.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 387 | 7.60 | 7.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 388 | 7.50 | 7.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 389 | 7.40 | 7.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 390 | 7.30 | 7.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 391 | 7.20 | 7.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 392 | 7.10 | 7.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 393 | 7.00 | 6.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 394 | 6.90 | 6.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 395 | 6.80 | 6.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 396 | 6.70 | 6.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 397 | 6.60 | 6.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 398 | 6.50 | 6.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 399 | 6.40 | 6.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 400 | 6.30 | 6.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 401 | 6.20 | 6.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 402 | 6.10 | 6.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 403 | 6.00 | 5.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 404 | 5.90 | 5.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 405 | 5.80 | 5.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 406 | 5.70 | 5.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 407 | 5.60 | 5.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 408 | 5.50 | 5.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 409 | 5.40 | 5.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 410 | 5.30 | 5.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 411 | 5.20 | 5.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 412 | 5.10 | 5.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 413 | 5.00 | 4.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 414 | 4.90 | 4.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 415 | 4.80 | 4.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 416 | 4.70 | 4.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 417 | 4.60 | 4.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 418 | 4.50 | 4.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 419 | 4.40 | 4.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 420 | 4.30 | 4.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 421 | 4.20 | 4.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 422 | 4.10 | 4.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 423 | 4.00 | 3.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 424 | 3.90 | 3.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 425 | 3.80 | 3.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 426 | 3.70 | 3.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 427 | 3.60 | 3.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 428 | 3.50 | 3.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 429 | 3.40 | 3.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 430 | 3.30 | 3.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 431 | 3.20 | 3.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 432 | 3.10 | 3.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 433 | 3.00 | 2.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 434 | 2.90 | 2.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 435 | 2.80 | 2.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 436 | 2.70 | 2.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 437 | 2.60 | 2.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 438 | 2.50 | 2.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 439 | 2.40 | 2.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 440 | 2.30 | 2.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 441 | 2.20 | 2.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 442 | 2.10 | 2.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 443 | 2.00 | 1.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 444 | 1.90 | 1.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 445 | 1.80 | 1.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 446 | 1.70 | 1.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 447 | 1.60 | 1.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 448 | 1.50 | 1.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 449 | 1.40 | 1.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 450 | 1.30 | 1.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 451 | 1.20 | 1.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 452 | 1.10 | 1.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 453 | 1.00 | 0.90 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 454 | 0.90 | 0.80 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 455 | 0.80 | 0.70 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 456 | 0.70 | 0.60 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 457 | 0.60 | 0.50 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 458 | 0.50 | 0.40 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 459 | 0.40 | 0.30 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 460 | 0.30 | 0.20 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 461 | 0.20 | 0.10 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| 462 | 0.10 | 0.00 | 0.31190 | 20.1 | 0.06518 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.065 |
| TOT | | | | | | 1.58 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.06518 | | 0.63 | 7.62 | | | 4.79 | | | | |

CUM 6.49

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 417 | 4.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 418 | 4.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 9.40 | 1.34 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 0.08 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.38 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.29 | 10.75 | 0.00 | 10.75 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 18.33 | 0.00 | 6.61 | 143.66 | 7.30 | 10.74 | 0.00 | 10.74 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 18.33 | 0.00 | 6.61 | 143.66 | 7.30 | 10.74 | 0.00 | 10.74 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 18.33 | 0.00 | 6.61 | 143.66 | 7.31 | 10.73 | 0.00 | 10.73 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 18.33 | 0.00 | 6.61 | 143.66 | 7.31 | 10.73 | 0.00 | 10.73 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 18.33 | 0.00 | 6.61 | 143.66 | 7.31 | 10.72 | 0.00 | 10.72 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 18.33 | 0.00 | 6.61 | 143.66 | 7.32 | 10.72 | 0.00 | 10.72 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 18.33 | 0.00 | 6.61 | 143.66 | 7.32 | 10.72 | 0.00 | 10.72 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 18.33 | 0.00 | 6.61 | 143.66 | 7.33 | 10.71 | 0.00 | 10.71 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 18.33 | 0.00 | 6.61 | 143.66 | 7.33 | 10.71 | 0.00 | 10.71 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 18.33 | 0.00 | 6.61 | 143.66 | 7.33 | 10.70 | 0.00 | 10.70 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 18.33 | 0.01 | 6.61 | 143.66 | 7.34 | 10.70 | 0.00 | 10.70 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 18.33 | 0.01 | 6.61 | 143.66 | 7.34 | 10.69 | 0.00 | 10.69 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 18.33 | 0.01 | 6.61 | 143.66 | 7.34 | 10.69 | 0.00 | 10.69 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 18.33 | 0.01 | 6.61 | 143.66 | 7.35 | 10.68 | 0.00 | 10.68 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 18.33 | 0.01 | 6.61 | 143.66 | 7.35 | 10.68 | 0.00 | 10.68 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 18.33 | 0.01 | 6.61 | 143.66 | 7.35 | 10.68 | 0.00 | 10.68 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 18.33 | 0.01 | 6.61 | 143.66 | 7.36 | 10.67 | 0.00 | 10.67 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 18.33 | 0.01 | 6.61 | 143.66 | 7.36 | 10.67 | 0.00 | 10.67 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 18.33 | 0.01 | 6.61 | 143.66 | 7.36 | 10.66 | 0.00 | 10.66 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 18.33 | 0.01 | 6.61 | 143.66 | 7.37 | 10.66 | 0.00 | 10.66 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 18.33 | 0.01 | 6.61 | 143.66 | 7.37 | 10.65 | 0.00 | 10.65 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 18.33 | 0.01 | 6.61 | 143.66 | 7.37 | 10.65 | 0.00 | 10.65 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 18.33 | 0.01 | 6.61 | 143.66 | 7.38 | 10.65 | 0.00 | 10.65 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 18.33 | 0.01 | 6.61 | 143.66 | 7.38 | 10.64 | 0.00 | 10.64 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 18.33 | 0.01 | 6.61 | 143.66 | 7.38 | 10.64 | 0.00 | 10.64 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 18.33 | 0.01 | 6.61 | 143.66 | 7.38 | 10.63 | 0.00 | 10.63 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 18.33 | 0.01 | 6.61 | 143.66 | 7.39 | 10.63 | 0.00 | 10.63 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 18.33 | 0.01 | 6.61 | 143.66 | 7.39 | 10.62 | 0.00 | 10.62 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 18.33 | 0.01 | 6.61 | 143.66 | 7.39 | 10.62 | 0.00 | 10.62 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 18.33 | 0.01 | 6.61 | 143.66 | 7.39 | 10.62 | 0.00 | 10.62 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 18.33 | 0.01 | 6.61 | 143.66 | 7.40 | 10.61 | 0.00 | 10.61 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 18.33 | 0.01 | 6.61 | 143.66 | 7.40 | 10.61 | 0.00 | 10.61 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 18.33 | 0.02 | 6.61 | 143.66 | 7.40 | 10.60 | 0.00 | 10.60 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 18.33 | 0.02 | 6.61 | 143.66 | 7.40 | 10.60 | 0.00 | 10.60 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 18.33 | 0.02 | 6.61 | 143.66 | 7.41 | 10.60 | 0.00 | 10.60 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 18.33 | 0.02 | 6.61 | 143.66 | 7.41 | 10.59 | 0.00 | 10.59 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 18.33 | 0.02 | 6.61 | 143.66 | 7.41 | 10.59 | 0.00 | 10.59 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 18.33 | 0.02 | 6.61 | 143.66 | 7.41 | 10.58 | 0.00 | 10.58 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 18.33 | 0.02 | 6.61 | 143.66 | 7.41 | 10.58 | 0.00 | 10.58 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 18.33 | 0.02 | 6.61 | 143.66 | 7.42 | 10.58 | 0.00 | 10.58 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 18.33 | 0.02 | 6.61 | 143.66 | 7.42 | 10.57 | 0.00 | 10.57 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 18.33 | 0.02 | 6.61 | 143.66 | 7.42 | 10.57 | 0.00 | 10.57 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 18.33 | 0.02 | 6.61 | 143.66 | 7.42 | 10.56 | 0.00 | 10.56 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 18.33 | 0.02 | 6.61 | 143.66 | 7.42 | 10.56 | 0.00 | 10.56 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.56 | 0.00 | 10.56 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.55 | 0.00 | 10.55 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | 4.100 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.55 | 0.00 | 10.55 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 422 | 4.000 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.54 | 0.00 | 10.54 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.54 | 0.00 | 10.54 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 18.33 | 0.02 | 6.61 | 143.66 | 7.43 | 10.54 | 0.00 | 10.54 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 18.33 | 0.02 | 6.61 | 143.66 | 7.44 | 10.53 | 0.00 | 10.53 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 18.33 | 0.02 | 6.61 | 143.66 | 7.44 | 10.53 | 0.00 | 10.53 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 18.33 | 0.02 | 6.61 | 143.66 | 7.44 | 10.52 | 0.00 | 10.52 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 18.33 | 0.02 | 6.61 | 143.66 | 7.44 | 10.52 | 0.00 | 10.52 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 18.33 | 0.03 | 6.61 | 143.66 | 7.44 | 10.52 | 0.00 | 10.52 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 18.33 | 0.03 | 6.61 | 143.66 | 7.44 | 10.51 | 0.00 | 10.51 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 18.33 | 0.03 | 6.61 | 143.66 | 7.44 | 10.51 | 0.00 | 10.51 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.50 | 0.00 | 10.50 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.50 | 0.00 | 10.50 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.50 | 0.00 | 10.50 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.49 | 0.00 | 10.49 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.49 | 0.00 | 10.49 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.48 | 0.00 | 10.48 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.48 | 0.00 | 10.48 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 18.33 | 0.03 | 6.61 | 143.66 | 7.45 | 10.48 | 0.00 | 10.48 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.47 | 0.00 | 10.47 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.47 | 0.00 | 10.47 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.47 | 0.00 | 10.47 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.46 | 0.00 | 10.46 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.46 | 0.00 | 10.46 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.45 | 0.00 | 10.45 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.45 | 0.00 | 10.45 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.45 | 0.00 | 10.45 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.44 | 0.00 | 10.44 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 18.33 | 0.03 | 6.61 | 143.66 | 7.46 | 10.44 | 0.00 | 10.44 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 18.33 | 0.03 | 6.61 | 143.66 | 7.47 | 10.44 | 0.00 | 10.44 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.43 | 0.00 | 10.43 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.43 | 0.00 | 10.43 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.42 | 0.00 | 10.42 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.42 | 0.00 | 10.42 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.42 | 0.00 | 10.42 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.41 | 0.00 | 10.41 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.41 | 0.00 | 10.41 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.41 | 0.00 | 10.41 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.40 | 0.00 | 10.40 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 18.33 | 0.04 | 6.61 | 143.66 | 7.47 | 10.40 | 0.00 | 10.40 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 18.33 | 0.04 | 6.61 | 143.66 | 7.48 | 10.40 | 0.00 | 10.40 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 18.33 | 0.04 | 6.61 | 143.66 | 7.48 | 10.39 | 0.00 | 10.39 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER

IATT CREEK WATERSHED MODEL
IATT CREEK WINTER RUN WITH 60% REDUCTION

TRAVEL TIME = 6.49 DAYS

MAXIMUM EFFLUENT = 20.10 PERCENT

FLOW = 0.19497 TO 0.31886 $m^3/s$

```
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.04421 TO    3.20234   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   11.13      m

 BOD DECAY         =    0.04   TO    0.06      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.28   TO    1.84      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.27   TO   24.17      per day
 BOD SETTLING      =    0.05   TO    0.19      per day
 NBOD DECAY        =    0.05   TO    0.08      per day
 NBOD SETTLING     =    0.19   TO    0.29      per day

 TEMPERATURE       =   18.33   TO   18.33      deg C
 DISSOLVED OXYGEN  =    7.14   TO    8.47      mg/L


     .....EXECUTION COMPLETED
```

# Appendix D4 – Winter Justifications

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| OCEAN EXCHANGE RATIO | 0 | | This was done to allow dispersion in the model but not to force the bottom element through the boundary conditions. |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| Reach | ID | Name | Upstream River Kilometer | Downstream River Kilometer | Element Length, meters | Data Source |
| 1 | PC | IC1-IC3 | 46.20 | 44.90 | 100.0000 | ARC MAP Calc. |
| 2 | PC | IC3-IC4 | 44.90 | 38.10 | 100.0000 | ARC MAP Calc. |
| 3 | PC | IC4-IC5 | 38.10 | 29.20 | 100.0000 | ARC MAP Calc. |
| 4 | PC | IC5-IC6 | 29.20 | 24.10 | 100.0000 | ARC MAP Calc. |
| 5 | PC | IC6-IC8 | 24.10 | 8.90 | 100.0000 | ARC MAP Calc. |
| 6 | PC | IC8-IC9 | 8.90 | 0.00 | 100.0000 | ARC MAP Calc. |

| | | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|---|---|
| Reach | Name | Width Coeff. "a" | Width Exp. "b" | Width Const. "c" | Data Source |
| 1 | IC1-IC3 | 0 | 0.2 | 1.321 | Constant - IC1 and Coefficients and Exponent - calibration |
| 2 | IC3-IC4 | 0 | 0.2 | 2.073 | Constant - IC3 and Coefficients and Exponent - calibration |
| 3 | IC4-IC5 | 0 | 0.2 | 3.886 | Constant - IC4 and Coefficients and Exponent - calibration |
| 4 | IC5-IC6 | 0 | 0.2 | 8.077 | Constant - IC5 and Coefficients and Exponent - calibration |
| 5 | IC6-IC8 | 2.5 | 0.2 | 9.144 | Constant - IC6 and Coefficients and Exponent - calibration |
| 6 | IC8-IC9 | 0 | 0.2 | 7.622 | Constant - IC8 and Coefficients and Exponent - calibration |

| DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|
| Depth Coeff. "d" | Depth Exp. "e" | Depth Const. "f" | Data Source |
| 0 | 0.3 | 0.048 | Constant - IC1 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.120 | Constant - IC3 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.253 | Constant - IC4 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.440 | Constant - IC5 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.593 | Constant - IC6 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.628 | Constant - IC8 and Coefficients and Exponent - calibration |

| | | DATA TYPE 11 - INITIAL CONDITIONS | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Temp, deg C** | **Data Source** | **DO, mg/l** | **Data Source** | **Chlorophyll a** | **Data Source** |
| 1 | IC1-IC3 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | 38.0 | IC1 Lab Data |
| 2 | IC3-IC4 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | 7.0 | IC3 Lab Data |
| 3 | IC4-IC5 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | | |
| 4 | IC5-IC6 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | 0 | IC5 Lab Data |
| 5 | IC6-IC8 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | | |
| 6 | IC8-IC9 | 18.33 | Winter 90th Percentile Temperature | 5.00 | DO Standard for 101303 | | |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** | **Aerobic BOD Dec Rate (1/day)** | **Data Source** | **BOD SETT RATE (1/day)** | **Data Source** |
| 1 | IC1-IC3 | 11 | Texas Equation | 0.31 | 60% Reduction Calc. | 0.0404 | AVG(IC1,IC2,IC3) | 0.20 | Calibration |
| 2 | IC3-IC4 | 11 | Texas Equation | 2.04 | 60% Reduction Calc. | 0.0555 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 11 | Texas Equation | 1.67 | 60% Reduction Calc. | 0.0640 | AVG(IC4,IC5) | 0.15 | Calibration |
| 4 | IC5-IC6 | 11 | Texas Equation | 1.47 | 60% Reduction Calc. | 0.0669 | AVG(IC5,IC6) | 0.15 | Calibration |
| 5 | IC6-IC8 | 11 | Texas Equation | 1.28 | 60% Reduction Calc. | 0.0646 | AVG(IC6,IC8) | 0.05 | Calibration |
| 6 | IC8-IC9 | 11 | Texas Equation | 1.26 | 60% Reduction Calc. | 0.0611 | IC8 | 0.10 | Calibration |

| | | DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | IC1-IC3 | 0.0692 | AVG(IC1,IC2,IC3) | 0.30 | Calibration |
| 2 | IC3-IC4 | 0.0634 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 0.0531 | AVG(IC4,IC5) | 0.20 | Calibration |
| 4 | IC5-IC6 | 0.0732 | AVG(IC5,IC6) | 0.20 | Calibration |
| 5 | IC6-IC8 | 0.0904 | AVG(IC6,IC8) | 0.20 | Calibration |
| 6 | IC8-IC9 | 0.0944 | IC8 | 0.20 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, deg C** | **Data Source** |
| 1 | IC1-IC3 | -0.0028 | 0.0000 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |
| 2 | IC3-IC4 | 0.0000 | 0.0187 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |
| 3 | IC4-IC5 | 0.0000 | 0.0442 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |
| 4 | IC5-IC6 | 0.0000 | 0.0000 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |
| 5 | IC6-IC8 | -0.0079 | 0.0000 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |
| 6 | IC8-IC9 | 0.0000 | 0.0000 | Flow Balance Calculation | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | |
|---|---|---|---|
| Reach | Reach Name | DO, mg/l | Data Source |
| 1 | IC1-IC3 | 2 | Normal Groundwater DO |
| 2 | IC3-IC4 | 2 | Normal Groundwater DO |
| 3 | IC4-IC5 | 2 | Normal Groundwater DO |
| 4 | IC5-IC6 | 2 | Normal Groundwater DO |
| 5 | IC6-IC8 | 2 | Normal Groundwater DO |
| 6 | IC8-IC9 | 2 | Normal Groundwater DO |

| | DATA TYPE 19 - NONPOINT SOURCES | | | | |
|---|---|---|---|---|---|
| Reach | Reach Name | Length of Reach, km | UCBOD, kg/day | NBOD, kg/day | Data Source |
| 1 | IC1-IC3 | 1.30 | 0.0 | 1.00 | 60% Reduction Calc. |
| 2 | IC3-IC4 | 6.8 | 0.0 | 0.00 | 60% Reduction Calc. |
| 3 | IC4-IC5 | 8.9 | 35.0 | 4.00 | 60% Reduction Calc. |
| 4 | IC5-IC6 | 5.1 | 29.0 | 8.00 | 60% Reduction Calc. |
| 5 | IC6-IC8 | 15.2 | 112.0 | 48.00 | 60% Reduction Calc. |
| 6 | IC8-IC9 | 8.9 | 59.0 | 17.00 | 60% Reduction Calc. |

| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Headwater Name | Element No. | Logical Unit Number | Headwater Flow, cms | Data Source | Temp, deg C | Data Source | Conservative Material I | Conservative Material II | Salinity | Data Source |
| Headwater 1 | 1 | 1 | 0.1954 | 7Q10 for Iatt Creek | 18.33 | Winter 90 percentile temp for WQ Site 1222 | 4.8 | 167.1 | 0.07 | IC1 Lab Data - CMI Insitu - Salinity and CMII |

| | | DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | | |
|---|---|---|---|---|---|---|
| Headwater Name | Dissolved Oxygen, mg/L | Data Source | UCBOD, mg/l | NBOD, mg/l | Data Source | |
| Headwater 1 | 8.46 | Winter 90 % DO Sat. for WQ Site 1222 | 15.93 | 0.92 | 60% Reduction Calc. | |

| DATA TYPES 22 - HEADWATER DATA FOR CHLOROPHYLL | | | | | |
|---|---|---|---|---|---|
| **Headwater Name** | **Chlorophyll a, ug/L** | **Date Source** | | | |
| Headwater 1 | 38 | IC1 Lab Data | | | |

| | | | DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **Flow, cms** | **Data Source** | **Temperature, deg C** | **Data Source** | **Salinity** | **Chlorides** | **Data Source** | **Conductivity** | **Data Source** |
| WINN CORRECTIONAL | 3 | 0.0083 | Permit Limit with MOS | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 | 0.35 | 76.1 | IN SITU DATA AT IC2 | 680.8 | LAB DATA AT IC2 |
| Redland/Cow Creek | 91 | 0.0280 | Winter LTP Default | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 | 0.03 | 8.6 | IN SITU DATA AT RC1 | 89.1 | LAB DATA AT RC1 |
| Cruie Creek | 239 | 0.0280 | Winter LTP Default | 18.33 | Winter 90 th Percentile Temp. for WQ Site 1222 | 0.05 | 11.5 | IN SITU DATA AT CC1 | 123.4 | LAB DATA AT CC1 |

| DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN | | | | | | |
|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **DO, mg/l** | **Data Source** | **UCBOD, mg/l** | **UNBOD, mg/l** | **Data Source** |
| WINN CORRECTIONAL | 3 | 5 | DO Standard for Subsegment 101303 | 23 | 43 | Permit Limit for CBOD1 and LTP default for NBOD |
| Redland/Cow Creek | 91 | 5 | DO Standard for Subsegment 101303 | 5.52 | 0.67 | RLC1 with 60% Reduction |
| Cruie Creek | 239 | 5 | DO Standard for Subsegment 101303 | 6.94 | 2.03 | CC1 with 60% Reduction |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 18.33 | $^{O}C$ | Winter 90th percentile temp. for WQ Site 1222 |
| SALINITY | 0.04 | mg/L | Insitu at IC9 |
| CONSERVATIVE MATERIAL I | 17.9 | ppm | IC9 Lab Data |
| CONSERVATIVE MATERIAL II | 107.8 | umhos/cm | Insitu at IC9 |
| DISSOLVED OXYGEN | 5 | mg/L | DO Standard for Subsegment 101303 |
| CBOD | 10.04 | mg/L | IC9 Lab Data |
| NBOD | 1.6 | mg/L | IC9 Lab Data |

# Appendix E – Projection Model Development

# Appendix E1 – Summer Loading

Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

## Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

| Modeled stream or water body: | Iatt Creek 101303 |
|---|---|

Shaded cells are input values for calculations.
Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | | Projection Model Equivalents | | | | Projected Model Loads | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Total Calb. Benthic Load (TCBL) | Reach Length | Back-ground Benthic Load | Back-ground percentage reduction | Back-ground Benthic Load adjusted for % reduction | Proj. Model Avg. Reach Width | Proj. Temp. | Percentage Reduction of man-made sources | Man-Made Calibration Benthic Load adjusted for % reduction (Reduced CBL) | Total Calibration Benthic Load (TCBL) adjusted for % reduction (Reduced TCBL) | Reduced TCBL adjusted for MOS | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Total Projection Benthic Load **(LA+MOS)** |
| | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | Kilo-meters | gm $O_2$ / [($m^2$)(day)] | % | gm $O_2$ / [($m^2$)(day)] | Meters | (degrees Celcius) | % | gm O2 / [(m2)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| | **A,** (note 1) | **B,** (note 1) | **C,** (note 1) | **D,** (note 1) | **E,** (note 1) | **F1** | **F2** | **F = F1*(1-F2)** | **G** | **H** | **I** | **J,** (note 2) | **K = F + J** | **L,** (note 3) | **M = (L)(A / D)** | **N = (L)(B / D)** | **O = (L)(C / D)** | **P = (E)(G)(M)** | **Q = (E)(G)(N)** | **R,** (note 4) | **P + Q + R** |
| 1 - IC1 to IC3 | 0.000 | 0.582 | 0.50 | 1.082 | 1.30 | 2.00 | 0% | 1.08 | 1.32 | 26.92 | 60.0% | -0.37 | 0.72 | 0.67 | 0.000 | 0.363 | 0.31 | 0 | 1 | 1 | 1.45 |
| 2 - IC3 to IC4 | 0.000 | 0.000 | 2.10 | 2.100 | 6.80 | 2.00 | 0% | 2.00 | 2.07 | 26.92 | 60.0% | 0.04 | 2.04 | 2.04 | 0.000 | 0.000 | 2.04 | 0 | 0 | 45 | 44.56 |
| 3 - IC4 to IC5 | 1.359 | 0.145 | 2.25 | 3.754 | 8.90 | 2.00 | 0% | 2.00 | 3.89 | 26.92 | 60.0% | 0.70 | 2.70 | 2.78 | 1.006 | 0.107 | 1.67 | 35 | 4 | 89 | 127.60 |
| 4 - IC5 to IC6 | 0.850 | 0.218 | 1.75 | 2.818 | 5.10 | 2.00 | 0% | 2.00 | 8.08 | 26.92 | 60.0% | 0.33 | 2.33 | 2.36 | 0.713 | 0.183 | 1.47 | 29 | 8 | 93 | 130.39 |
| 5 - IC6 to IC8 | 0.756 | 0.324 | 1.45 | 2.530 | 15.20 | 2.00 | 0% | 2.00 | 11.06 | 26.92 | 60.0% | 0.21 | 2.21 | 2.24 | 0.668 | 0.286 | 1.28 | 112 | 48 | 333 | 493.45 |
| 6 - IC8 to IC9 | 1.032 | 0.295 | 1.50 | 2.827 | 8.90 | 2.00 | 0% | 2.00 | 7.62 | 26.92 | 60.0% | 0.33 | 2.33 | 2.37 | 0.864 | 0.247 | 1.26 | 59 | 17 | 132 | 207.10 |
| **Sub-Total** | | | | | | | | | | | | | 12.33 | | | | | 235 | 77 | 693 | **1005** |

| Margin of Safety Loads | | | | | | Man-made Model equivalents | | | | Man-made Model loads | | | | Background Model loads | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOS Total Benthic Load @ 20°C | MOS SOD @ 20°C | Non-Point UCBOD MOS Loads | Non-Point UNBOD MOS Loads | Adjusted SOD MOS @ Proj. temp | Adjusted Total MOS @ Proj. temp | Manmade portion of TCBL | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load |
| (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| **S = (L-K)(E)(G)** | **T = (S)(C/D)** | **U = (S)(A/D)** | **V = (S)(B/D)** | **W,** (note 5) | **U + V + W** | **X = L - F** | **Y = (X)(A / D)** | **Z = (X)(B / D)** | **AA = (X)(C / D)** | **AB = (E)(G)(Y)** | **AC = (E)(G)(Z)** | **AD,** (note 6) | **AB + AC + AD** | **AE = P - AB** | **AF = Q - AC** | **AG = R - AD** | **AE + AF + AG** |
| 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 1 | 1 | 1.45 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0.000 | 0.000 | 0.04 | 0 | 0 | 1 | 0.97 | 0 | 0 | 44 | 43.59 |
| 3 | 2 | 1 | 0 | 2 | 4 | 0.78 | 0.282 | 0.030 | 0.47 | 10 | 1 | 25 | 35.78 | 25 | 3 | 64 | 91.82 |
| 1 | 1 | 0 | 0 | 1 | 2 | 0.36 | 0.110 | 0.028 | 0.23 | 5 | 1 | 14 | 20.06 | 25 | 6 | 79 | 110.33 |
| 4 | 2 | 1 | 1 | 4 | 5 | 0.24 | 0.070 | 0.030 | 0.13 | 12 | 5 | 35 | 51.97 | 100 | 43 | 298 | 441.48 |
| 2 | 1 | 1 | 0 | 2 | 3 | 0.37 | 0.134 | 0.038 | 0.20 | 9 | 3 | 20 | 32.15 | 50 | 14 | 111 | 174.94 |
| 11 | | 4 | 1 | 10 | **14** | | | | | 35 | 10 | 96 | **141** | 200 | 67 | 597 | **864** |

## Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**Iatt Creek 101303**

**Headwater / Tributary load determinations**

| Headwater / Tributary Description and Reach # | Seasonal Critical flow (cms) | UCBOD (mg/l) | UNBOD (mg/l) | UCBOD (kg/day) | UNBOD (kg/day) | Background UCBOD conc. (mg/l) | Background UNBOD conc. (mg/l) | Background % Reduction | Background UCBOD Load (kg/day) | Background UNBOD Load (kg/day) | Percent reduction of Man-Made loads | Projection UCBOD input conc. (mg/l) | Projection UNBOD input conc. (mg/l) | **Total MOS (kg/day)** | **Total LA (kg/day)** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **A** | **B** | **C** | **D = (86.4)(A)(B)** | **E = (86.4)(A)(C)** | **F** | **G** | **H1** | **H = (1-H1) (86.4)(A)(F)** | **I = (1-H1) (86.4)(A)(G)** | **J** | **(M)/[(A)(86.4)]** | **(N)/[(A)(86.4)]** | **(M+N) - (K+L)** | **K + L** |
| Iatt Creek Headwater | 0.1954 | 26.3 | 1.51 | 444.01 | 25.49 | 5.56 | 0.32 | 0% | 93.87 | 5.40 | 60% | 15.93 | 0.92 | **37.02** | **247.36** |
| Redland/Cow Creek | 0.0028 | 5.8 | 0.70 | 1.40 | 0.17 | 5.24 | 0.64 | 0% | 1.27 | 0.15 | 60% | 5.52 | 0.67 | **0.01** | **1.48** |
| Cruie Creek | 0.0028 | 9.32 | 2.72 | 2.25 | 0.66 | 4.55 | 1.33 | 0% | 1.10 | 0.32 | 60% | 6.94 | 2.03 | **0.15** | **2.02** |
| **SUB-TOTAL TMDL LOADING** | | | | **448** | **26** | | | | **96** | **6** | | | | **37** | **251** |

# Summer TMDL calculations and Projection model calculations for Incremental loads:

## Iatt Creek 101303

Shaded cells are input values for calculations.
Values to be used in the projection models.

### *Incremental Load Determinations:*

| Reach Description and # | Calibration Load determinations: | | | | | | | | | | Percentage Reduction calculations: | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Projection Flow (cms) | Calb. UCBOD conc. (mg/l) | Unadjusted UCBOD (kg/day) | Calb. UNBOD conc. (mg/l) | Unadjusted UNBOD (kg/day) | Background Conc. UCBOD (mg/l) | Background Conc. UNBOD (mg/l) | Background % Reduction | Background Load UCBOD (kg/day) | Background Load UNBOD (kg/day) | Actual % Reduction of Man-Made Loads | Increm. UCBOD Load Adjusted For % Reduction **(LA load)** | Increm. UNBOD Load Adjusted For % Reduction **(LA load)** |
| | **A** | **B** | **C** = (86.4)(**A**)(**B**) | **D** | **E** = (86.4)(**A**)(**D**) | **F** | **G** | **H1** | **H** = (1-**H1**) (86.4)(**A**)(**F**) | **I** = (1-**H1**) (86.4)(**A**)(**G**) | **J,** Note 1 | **K** = (**C-H**)(1-**J**) + **H** | **L** = (**E-I**)(1-**J**) + **I** |
| 1 - IC1 to IC3 | 0.0067 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| 2 - IC3 to IC4 | 0.0187 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| 3 - IC4 to IC5 | 0.0442 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| 4 - IC5 to IC6 | 0.0000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| 5 - IC6 to IC8 | -0.0079 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| 6 - IC8 to IC9 | 0.0000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0% | 0.00 | 0.00 | 60% | 0.00 | 0.00 |
| **Sub-Total benthic loading** | | | | | | | | | **0** | **0** | | **0** | **0** |

| Projection Model Input determinations: | | | | Projection Model Input determinations: | | | |
|---|---|---|---|---|---|---|---|
| Increm. UCBOD Adjusted for MOS (kg/day) (1) | Increm. UNBOD Adjusted for MOS (kg/day) (1) | Projection UCBOD conc. (mg/l) | Projection UNBOD conc. (mg/l) | Proj. UCBOD MOS load (kg/day) | Proj. UNBOD MOS load (kg/day) | **Sub-total MOS load (kg/day)** | **Sub-total LA load (kg/day)** |
| **M = (K-H)** / (1-**MOS**) + H | **N = (L-I)** / (1-**MOS**) + I | **M** / [(**A**)(86.4)] | **N** / [(**A**)(86.4)] | **O = M - K** | **P = N - L** | **O + P** | **K + L** |
| 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 |
| 0 | 0 | #DIV/0! | #DIV/0! | 0 | 0 | 0 | 0 |
| 0 | 0 | 0.00 | 0.00 | 0 | 0 | 0 | 0 |
| 0 | 0 | #DIV/0! | #DIV/0! | 0 | 0 | 0 | 0 |
| **0** | **0** | | | **0** | **0** | **0** | **0** |

# Appendix E2 – Winter Loading

# Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Shaded cells are input values for calculations.

Values to be used in the projection models.

| | Projection Model Equivalents | | | | Projected Model Loads | | | | Margin of Safety Loads | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Reduced TCBL adjusted for MOS | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Total Projection Benthic Load **(LA+MOS)** | MOS Total Benthic Load @ 20°C | MOS SOD @ 20°C | Non-Point UCBOD MOS Loads | Non-Point UNBOD MOS Loads | Adjusted SOD MOS @ Proj. temp | Adjusted Total MOS @ Proj. temp |
| | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| | **L,** (note 3) | **M = (L)(A / D)** | **N = (L)(B / D)** | **O = (L)(C / D)** | **P = (E)(G)(M)** | **Q = (E)(G)(N)** | **R,** (note 4) | **P + Q + R** | **S = (L-K)(E)(G)** | **T = (S)(C/D)** | **U = (S)(A/D)** | **V = (S)(B/D)** | **W,** (note 5) | **U + V + W** |
| 1 - IC1 to IC3 | 1.08 | 0.000 | 0.582 | 0.50 | 0 | 1 | 1 | 1.77 | -3 | -2 | 0 | -2 | -1 | -3 |
| 2 - IC3 to IC4 | 2.05 | 0.000 | 0.000 | 2.05 | 0 | 0 | 26 | 26.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 - IC4 to IC5 | 2.88 | 1.042 | 0.111 | 1.72 | 36 | 4 | 54 | 93.54 | 6 | 4 | 2 | 0 | 3 | 6 |
| 4 - IC5 to IC6 | 2.41 | 0.726 | 0.187 | 1.50 | 30 | 8 | 55 | 93.08 | 3 | 2 | 1 | 0 | 2 | 3 |
| 5 - IC6 to IC8 | 2.26 | 0.677 | 0.290 | 1.30 | 114 | 49 | 196 | 358.96 | 9 | 5 | 3 | 1 | 5 | 8 |
| 6 - IC8 to IC9 | 2.41 | 0.881 | 0.252 | 1.28 | 60 | 17 | 78 | 155.01 | 6 | 3 | 2 | 1 | 3 | 5 |
| **Sub-Total** | | | | | 239 | 78 | 411 | **728** | 21 | | 8 | 0 | 11 | **19** |

# Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Shaded cells are input values for calculations.

Values to be used in the projection models.

| | Man-made Model equivalents | | | | Man-made Model loads | | | | Background Model loads | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Manmade portion of TCBL | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load |
| | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| | **X = L - F** | **Y = (X)(A / D)** | **Z = (X)(B / D)** | **AA = (X)(C / D)** | **AB = (E)(G)(Y)** | **AC = (E)(G)(Z)** | **AD,** (note 6) | **AB + AC + AD** | **AE = P - AB** | **AF = Q - AC** | **AG = R - AD** | **AE + AF + AG** |
| 1 - IC1 to IC3 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 1 | 1 | 1.77 |
| 2 - IC3 to IC4 | 0.05 | 0.000 | 0.000 | 0.05 | 0 | 0 | 1 | 0.63 | 0 | 0 | 25 | 25.38 |
| 3 - IC4 to IC5 | 0.88 | 0.317 | 0.034 | 0.53 | 11 | 1 | 16 | 28.51 | 25 | 3 | 37 | 65.03 |
| 4 - IC5 to IC6 | 0.41 | 0.123 | 0.032 | 0.25 | 5 | 1 | 9 | 15.81 | 25 | 6 | 46 | 77.28 |
| 5 - IC6 to IC8 | 0.26 | 0.079 | 0.034 | 0.15 | 13 | 6 | 23 | 41.98 | 100 | 43 | 173 | 316.99 |
| 6 - IC8 to IC9 | 0.41 | 0.151 | 0.043 | 0.22 | 10 | 3 | 13 | 26.56 | 50 | 14 | 65 | 128.45 |
| **Sub-Total** | | | | | 40 | 11 | 63 | **113** | 200 | 67 | 348 | **615** |

# Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

| Modeled stream or water body: | Iatt Creek 101303 |
|---|---|

Shaded cells are input values for calculations.

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Total Calb. Benthic Load (TCBL) | Reach Length | Back-ground Benthic Load | Back-ground percentage reduction | Back-ground Benthic Load adjusted for % reduction | Proj. Model Avg. Reach Width | Proj. Temp. | Percentage Reduction of man-made sources | Man-Made Calibration Benthic Load adjusted for % reduction (Reduced CBL) | Total Calibration Benthic Load (TCBL) adjusted for % reduction (Reduced TCBL) |
| | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | Kilo-meters | gm $O_2$ / [($m^2$)(day)] | % | gm $O_2$ / [($m^2$)(day)] | Meters | (degrees Celcius) | % | gm O2 / [(m2)(day)] | gm $O_2$ / [($m^2$)(day)] |
| | **A,** (note 1) | **B,** (note 1) | **C,** (note 1) | **D,** (note 1) | **E,** (note 1) | **F1** | **F2** | **F = F1*(1-F2)** | **G** | **H** | **I** | **J,** (note 2) | **K = F + J** |
| 1 - IC1 to IC3 | 0.000 | 0.582 | 0.50 | 1.082 | 1.30 | 2.00 | 0% | 2.00 | 1.32 | 18.33 | 60.0% | 1.08 | 3.08 |
| 2 - IC3 to IC4 | 0.000 | 0.000 | 2.10 | 2.100 | 6.80 | 2.00 | 0% | 2.00 | 2.07 | 18.33 | 60.0% | 0.04 | 2.04 |
| 3 - IC4 to IC5 | 1.359 | 0.145 | 2.25 | 3.754 | 8.90 | 2.00 | 0% | 2.00 | 3.89 | 18.33 | 60.0% | 0.70 | 2.70 |
| 4 - IC5 to IC6 | 0.850 | 0.218 | 1.75 | 2.818 | 5.10 | 2.00 | 0% | 2.00 | 8.08 | 18.33 | 60.0% | 0.33 | 2.33 |
| 5 - IC6 to IC8 | 0.756 | 0.324 | 1.45 | 2.530 | 15.20 | 2.00 | 0% | 2.00 | 11.06 | 18.33 | 60.0% | 0.21 | 2.21 |
| 6 - IC8 to IC9 | 1.032 | 0.295 | 1.50 | 2.827 | 8.90 | 2.00 | 0% | 2.00 | 7.62 | 18.33 | 60.0% | 0.33 | 2.33 |
| **Sub-Total** | | | | | | | | | | | | | 14.69 |

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.
Note 2, **J** = [(1 - **I**) x (**D** - **F1**) ]
Note 3, **L** = [(**K** - **F**) / (1 - MOS) + **F**]
Note 4, **R** = **E** x **G** x **O** x $1.065^{(H-20)}$
Note 5, **W** = **T** x $1.065^{(H-20)}$
Note 6, **AD** = **E** x **G** x **AA** x $1.065^{(H-20)}$

## Winter TMDL Calculations for Point Source loads:

### Iatt Creek 101303

| Point Source Loadir | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Proposed Permit Limits | | |
| Pt. Source / Facility Description and Reach # | Receiving Stream | Included in the Projection Model (Yes/No) | Anticipated/ design flow (cms) | Flow with MOS (cms) | $CBOD_5$ (mg/l) | $NH_3N$ (mg/l) | MOS (%) |
| | | | **A** | **A1 = A/(1-D)** | **B** | **C** | **D** |
| Winn Correctional Facility STP | Iatt Creek | Yes | 0.0066 | 0.0083 | 10.0 | 10.0 | 20% |
| | | | | | | | |
| **SUB-TOTAL Loads** | | | | | | | |

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

## Winter TMDL Calculations for Point Source loads:

### Iatt Creek 101303

*Input data into the shaded cells.*

| Point Source Loading Calculations | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | UCBOD | | | | UNBOD | | | | Sub-total of Point Source Loads | | |
| Pt. Source / Facility Description and Reach # | Ultimate Conc. (mg/l) (2) | Loads (kg/day) (1) | WLA (kg/day) | Reserve/ MOS Load (kg/day) | Ultimate Conc. (mg/l) (2) | Loads (kg/day) (1) | WLA (kg/day) | Reserve/ MOS Load (kg/day) | **Loads (kg/day)** | **WLA (kg/day)** | **Reserve/ MOS (kg/day)** |
| | **E** = 2.3 x **B** | **F = (**86.4)(**A1**)(**E**) | **G =** (1-**D**) x **F** | **H = (D)(F)** | **I** = 4.3 x **B** | **J = (**86.4)(**A1**)(**I**) | **K =** (1-**D**) x **J** | **L = (D)(J)** | **F + J** | **G + K** | **H + L** |
| Winn Correctional Facility STP | 23.0 | 16 | 13 | 3 | 43.0 | 31 | 25 | 6 | **47** | **38** | **9** |
| | | | | | | | | | | | |
| **SUB-TOTAL Loads** | | **16** | **13** | **3** | | **31** | **25** | **6** | **47** | **38** | **9** |

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

## Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**Iatt Creek 101303**

Shaded cells are input values for calculations.
Values to be used in the projection models.

**Headwater / Tributary load determinations**

| Headwater / Tributary Description and Reach # | Seasonal Critical flow (cms) | UCBOD (mg/l) | UNBOD (mg/l) | UCBOD (kg/day) | UNBOD (kg/day) | Background UCBOD conc. (mg/l) | Background UNBOD conc. (mg/l) | Background % Reduction | Percent reduction of Man-Made loads | UCBOD load adjusted for % Reduction (kg/day) | UNBOD load adjusted for % Reduction (kg/day) | Reduced UCBOD load adjusted for MOS (kg/day) | Reduced UNBOD load adjusted for MOS (kg/day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **A** | **B** | **C** | **D = (86.4)(A)(B)** | **E = (86.4)(A)(C)** | **F** | **G** | **H1** | **J** | **K = (D-H)(1-J) + H** | **L = (D-I)(1-J) + I** | **M = (K - H) / (1 - MOS) + H** | **N = (L - I) / (1 - MOS) + I** |
| Iatt Creek Headwater | 0.1954 | 26.3 | 1.51 | 444.01 | 25.49 | 5.56 | 0.32 | 0% | 60% | 233.92 | 13.44 | 268.94 | 15.45 |
| Redland/Cow Creek | 0.0280 | 5.8 | 0.70 | 14.03 | 1.69 | 5.24 | 0.64 | 0% | 60% | 13.22 | 1.61 | 13.35 | 1.62 |
| Cruie Creek | 0.0280 | 9.32 | 2.72 | 22.55 | 6.58 | 4.55 | 1.33 | 0% | 60% | 15.62 | 4.56 | 16.78 | 4.90 |
| | | | | | | | | | | | | | |
| **SUB-TOTAL TMDL LOADING** | | | | **481** | **34** | | | | | **263** | **20** | **299** | **22** |

MARGIN OF SAFETY (MOS) (%) = **20%**

## Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**Iatt Creek 101303**

**Headwater / Tributary load determinations**

| Headwater / Tributary Description and Reach # | Projection UCBOD input conc. (mg/l) | Projection UNBOD input conc. (mg/l) | **Total MOS (kg/day)** | **Total LA (kg/day)** |
|---|---|---|---|---|
| | (M)/[(A)(86.4)] | (N)/[(A)(86.4)] | (M+N) - (K+L) | K + L |
| Iatt Creek Headwater | 15.93 | 0.92 | **37.02** | **247.36** |
| Redland/Cow Creek | 5.52 | 0.67 | **0.15** | **14.82** |
| Cruie Creek | 6.94 | 2.03 | **1.49** | **20.19** |
| | | | | |
| **SUB-TOTAL TMDL LOADING** | | | **39** | **282** |

# Appendix E3 – Summer No Load Loading

Shaded cells are input values for calculations.

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Total Calb. Benthic Load (TCBL) | Reach Length | Back-ground Benthic Load | Back-ground percentage reduction | Back-ground Benthic Load adjusted for % reduction | Proj. Model Avg. Reach Width | Proj. Temp. | Percentage Reduction of man-made sources |
| | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | Kilo-meters | gm $O_2$ / [($m^2$)(day)] | % | gm $O_2$ / [($m^2$)(day)] | Meters | (degrees Celcius) | % |
| | **A,** (note 1) | **B,** (note 1) | **C,** (note 1) | **D,** (note 1) | **E,** (note 1) | **F1** | **F2** | **F = F1*(1-F2)** | **G** | **H** | **I** |
| 1 - IC1 to IC3 | 0.000 | 0.582 | 0.50 | 1.082 | 1.30 | 2.00 | 0% | 1.08 | 1.32 | 26.92 | 100.0% |
| 2 - IC3 to IC4 | 0.000 | 0.000 | 2.10 | 2.100 | 6.80 | 2.00 | 0% | 2.00 | 2.07 | 26.92 | 100.0% |
| 3 - IC4 to IC5 | 1.359 | 0.145 | 2.25 | 3.754 | 8.90 | 2.00 | 0% | 2.00 | 3.89 | 26.92 | 100.0% |
| 4 - IC5 to IC6 | 0.850 | 0.218 | 1.75 | 2.818 | 5.10 | 2.00 | 0% | 2.00 | 8.08 | 26.92 | 100.0% |
| 5 - IC6 to IC8 | 0.755 | 0.324 | 1.45 | 2.529 | 15.20 | 2.00 | 0% | 2.00 | 11.06 | 26.92 | 100.0% |
| 6 - IC8 to IC9 | 1.032 | 0.295 | 1.50 | 2.827 | 8.90 | 2.00 | 0% | 2.00 | 7.62 | 26.92 | 100.0% |
| **Sub-Total** | | | | | | | | | | | |

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.
Note 2, **J** = [(1 - **I**) x (**D** - **F1**) ]
Note 3, **L** = [(**K** - **F**) / (1 - MOS) + **F**]
Note 4, **R** = **E** x **G** x **O** x $1.065^{(H-20)}$
Note 5, **W** = **T** x $1.065^{(H-20)}$
Note 6, **AD** = **E** x **G** x **AA** x $1.065^{(H-20)}$

**EXPLICIT MARGINS:**

| | |
|---|---|
| MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = | **20%** |

Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

Shaded cells are input values for calculations.
Values to be used in the projection models.

| | | | Projection Model Equivalents | | | | Projected Model Loads | | | | Margin of Safety Loads | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Man-Made Calibration Benthic Load adjusted for % reduction (Reduced CBL) | Total Calibration Benthic Load (TCBL) adjusted for % reduction (Reduced TCBL) | Reduced TCBL adjusted for MOS | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Total Projection Benthic Load **(LA+MOS)** | MOS Total Benthic Load @ 20°C | MOS SOD @ 20°C | Non-Point UCBOD MOS Loads | Non-Point UNBOD MOS Loads | Adjusted SOD MOS @ Proj. temp |
| | gm O2 / [(m2)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| | **J,** (note 2) | **K = F + J** | **L,** (note 3) | **M = (L)(A / D)** | **N = (L)(B / D)** | **O = (L)(C / D)** | **P = (E)(G)(M)** | **Q = (E)(G)(N)** | **R,** (note 4) | **P + Q + R** | **S = (L-K)(E)(G)** | **T = (S)(C/D)** | **U = (S)(A/D)** | **V = (S)(B/D)** | **W,** (note 5) |
| 1 - IC1 to IC3 | 0.00 | 1.08 | 1.08 | 0.000 | 0.582 | 0.50 | 0 | 1 | 1 | 2.33 | 0 | 0 | 0 | 0 | 0 |
| 2 - IC3 to IC4 | 0.00 | 2.00 | 2.00 | 0.000 | 0.000 | 2.00 | 0 | 0 | 44 | 43.59 | 0 | 0 | 0 | 0 | 0 |
| 3 - IC4 to IC5 | 0.00 | 2.00 | 2.00 | 0.724 | 0.077 | 1.20 | 25 | 3 | 64 | 91.82 | 0 | 0 | 0 | 0 | 0 |
| 4 - IC5 to IC6 | 0.00 | 2.00 | 2.00 | 0.603 | 0.155 | 1.24 | 25 | 6 | 79 | 110.33 | 0 | 0 | 0 | 0 | 0 |
| 5 - IC6 to IC8 | 0.00 | 2.00 | 2.00 | 0.597 | 0.256 | 1.15 | 100 | 43 | 298 | 441.50 | 0 | 0 | 0 | 0 | 0 |
| 6 - IC8 to IC9 | 0.00 | 2.00 | 2.00 | 0.730 | 0.209 | 1.06 | 50 | 14 | 111 | 174.94 | 0 | 0 | 0 | 0 | 0 |
| **Sub-Total** | | 11.08 | | | | | 200 | 67 | 597 | **865** | 0 | | 0 | 0 | 0 |

Shaded cells are input values for calculations.
Values to be used in the projection models.

| | | Man-made Model equivalents | | | | Man-made Model loads | | | | Background Model loads | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Adjusted Total MOS @ Proj. temp | Manmade portion of TCBL | Non-Point UCBOD | Non-Point UNBOD | SOD @ 20°C | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load | Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | SOD load @ Proj. temp. | Man-made Total Projection Benthic Load |
| | (kg/day) | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | gm $O_2$ / [($m^2$)(day)] | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) | (kg/day) |
| | **U + V + W** | **X = L - F** | **Y = (X)(A / D)** | **Z = (X)(B / D)** | **AA = (X)(C / D)** | **AB = (E)(G)(Y)** | **AC = (E)(G)(Z)** | **AD,** (note 6) | **AB + AC + AD** | **AE = P - AB** | **AF = Q - AC** | **AG = R - AD** | **AE + AF + AG** |
| 1 - IC1 to IC3 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 1 | 1 | 2.33 |
| 2 - IC3 to IC4 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 0 | 44 | 43.59 |
| 3 - IC4 to IC5 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 25 | 3 | 64 | 91.82 |
| 4 - IC5 to IC6 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 25 | 6 | 79 | 110.33 |
| 5 - IC6 to IC8 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 100 | 43 | 298 | 441.50 |
| 6 - IC8 to IC9 | 0 | 0.00 | 0.000 | 0.000 | 0.00 | 0 | 0 | 0 | 0.00 | 50 | 14 | 111 | 174.94 |
| **Sub-Total** | **0** | | | | | 0 | 0 | 0 | **0** | 200 | 67 | 597 | **865** |

## Summer TMDL Calculations for Point Source loads:

### Iatt Creek 101303

| Point Source Loadir | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | Proposed Permit Limits | | |
| Pt. Source / Facility Description and Reach # | Receiving Stream | Included in the Projection Model (Yes/No) | Anticipated/ design flow (cms) | Flow with MOS (cms) | $CBOD_5$ (mg/l) | $NH_3N$ (mg/l) | MOS (%) |
| | | | **A** | **A1 = A/(1-D)** | **B** | **C** | **D** |
| Winn Correctional Facility STP | Iatt Creek | Yes | 0.0066 | 0.0066 | 10.0 | 10.0 | 20% |
| | | | | | | | |
| **SUB-TOTAL Loads** | | | | | | | |

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

## Summer TMDL Calculations for Point Source loads:

### Iatt Creek 101303

*Input data into the shaded cells.*

| Point Source Loading Calculations | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | UCBOD | | | | UNBOD | | | | Sub-total of Point Source Loads | | |
| Pt. Source / Facility Description and Reach # | Ultimate Conc. (mg/l) (2) | Loads (kg/day) (1) | WLA (kg/day) | Reserve/ MOS Load (kg/day) | Ultimate Conc. (mg/l) (2) | Loads (kg/day) (1) | WLA (kg/day) | Reserve/ MOS Load (kg/day) | **Loads (kg/day)** | **WLA (kg/day)** | **Reserve/ MOS (kg/day)** |
| | **E** = 2.3 x **B** | **F = (**86.4)**(A1)(E)** | **G =** (1-**D**) x **F** | **H = (D)(F)** | **I** = 4.3 x **B** | **J = (**86.4)**(A1)(I)** | **K =** (1-**D**) x **J** | **L = (D)(J)** | **F + J** | **G + K** | **H + L** |
| Winn Correctional Facility STP | 23.0 | 13 | 10 | 3 | 43.0 | 25 | 20 | 5 | **38** | **30** | **8** |
| | | | | | | | | | | | |
| **SUB-TOTAL Loads** | | **13** | **10** | **3** | | **25** | **20** | **5** | **38** | **30** | **8** |

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

## Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**Iatt Creek 101303**

**Headwater / Tributary load determinati**

| Headwater / Tributary Description and Reach # | Seasonal Critical flow (cms) | UCBOD (mg/l) | UNBOD (mg/l) | UCBOD (kg/day) | UNBOD (kg/day) | Background UCBOD conc. (mg/l) | Background UNBOD conc. (mg/l) | Background % Reduction | Percent reduction of Man-Made loads |
|---|---|---|---|---|---|---|---|---|---|
| | **A** | **B** | **C** | **D = (86.4)(A)(B)** | **E = (86.4)(A)(C)** | **F** | **G** | **H1** | **J** |
| Iatt Creek Headwater | 0.1954 | 26.3 | 1.51 | 444.01 | 25.49 | 5.56 | 0.32 | 0% | 100% |
| Redland/Cow Creek | 0.0028 | 5.8 | 0.70 | 1.40 | 0.17 | 5.24 | 0.64 | 0% | 100% |
| Cruie Creek | 0.0028 | 9.32 | 2.72 | 2.25 | 0.66 | 4.55 | 1.33 | 0% | 100% |
| **SUB-TOTAL TMDL LOADING** | | | | **448** | **26** | | | | |

## Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**Iatt Creek 101303**

Shaded cells are input values for calculations.

Values to be used in the projection models.

**Headwater / Tributary load determinations**

| Headwater / Tributary Description and Reach # | UCBOD load adjusted for % Reduction (kg/day) | UNBOD load adjusted for % Reduction (kg/day) | Reduced UCBOD load adjusted for MOS (kg/day) | Reduced UNBOD load adjusted for MOS (kg/day) | Projection UCBOD input conc. (mg/l) | Projection UNBOD input conc. (mg/l) | **Total MOS (kg/day)** | **Total LA (kg/day)** |
|---|---|---|---|---|---|---|---|---|
| | **K = (D-H)(1-J) + H** | **L = (D-I)(1-J) + I** | **M = (K - H) / (1 - MOS) + H** | **N = (L - I) / (1 - MOS) + I** | **(M)/[(A)(86.4)]** | **(N)/[(A)(86.4)]** | **(M+N) - (K+L)** | **K + L** |
| Iatt Creek Headwater | 93.87 | 5.40 | 93.87 | 5.40 | 5.56 | 0.32 | **0.00** | **99.27** |
| Redland/Cow Creek | 1.27 | 0.15 | 1.27 | 0.15 | 5.24 | 0.64 | **0.00** | **1.42** |
| Cruie Creek | 1.10 | 0.32 | 1.10 | 0.32 | 4.55 | 1.33 | **0.00** | **1.42** |
| **SUB-TOTAL TMDL LOADING** | **96** | **6** | **96** | **6** | | | **0** | **102** |

MARGIN OF SAFETY (MOS) (%) = **20%**

# Appendix E4 – Critical Temp DO Saturation Calculations

# *Critical Temperature and DO Determinations:*

***SITE NUMBER:*** 1222

***SITE DESCRIPTION:*** Iatt Creek southeast of Iatt, Louisiana

| | ***Summer Season*** | ***Winter Season*** |
|---|---|---|
| ***90th Percentile Temperature(°C):*** | 26.92 | 18.33 |
| ***90 % DO Sat (mg/L):*** | 7.18 | 8.46 |
| ***Months:*** | May To Oct | Nov To Apr |

| ***Date*** | ***Water Temp. (°C)*** | ***DO (mg/L)*** |
|---|---|---|
| 12/16/2002 | 10.59 | 10.60 |
| 11/19/2002 | 13.13 | 3.85 |
| 10/21/2002 | 18.00 | 3.35 |
| 9/23/2002 | 23.81 | 1.95 |
| 8/19/2002 | 26.64 | 3.55 |
| 7/22/2002 | 27.35 | 0.21 |
| 6/17/2002 | 24.11 | 1.90 |
| 5/20/2002 | 18.65 | 1.12 |
| 4/15/2002 | 21.55 | 2.96 |
| 3/25/2002 | 16.18 | 5.35 |
| 2/25/2002 | 13.21 | 7.04 |
| 1/28/2002 | 12.41 | 7.63 |

# Appendix F – Survey Data Measurements and Analysis Results

# Appendix F1 – Water Quality Data

# Iatt Creek 101303 Lab Data

| Site_Number | Lab_ID | Lab_Sample_Type | Analysis_Name | Result | Units | Analysis_Read | Date_Nitrates_Sampled |
|---|---|---|---|---|---|---|---|
| IC1 | AG18468 | TRG | TSS | 14.0 | ppm | 7/16/2004 | |
| IC1 | AG18468 | TRG | TDS | 176 | ppm | 7/16/2004 | |
| IC1 | AG18468 | TRG | Alkalinity | 22.0 | ppm | 7/21/2004 | |
| IC1 | AG18468 | TRG | Turbidity | 13 | NTU | 7/15/2004 | |
| IC1 | AG18468 | TRG | Specific Conductance | 168 | umhos/cm | 7/21/2004 | |
| IC1 | AG18468 | TRG | True Color | 400 | PCU | 7/15/2004 | |
| IC1 | AG18468 | TRG | Chloride, Ion Chromatograph | 4.8 | ppm | 7/26/2004 | |
| IC1 | AG18468 | TRG | Sulfate | 43.8 | ppm | 7/26/2004 | |
| IC1 | AG18469 | TRG | Hardness | 75.1 | ppm | 7/27/2004 | |
| IC1 | AG18469 | TRG | Nitrate+Nitrite Nitrogen | 0.27 | ppm | 7/26/2004 | |
| IC1 | AG18469 | TRG | TP | 0.09 | ppm | 7/29/2004 | |
| IC1 | AG18469 | TRG | TKN | 1.12 | ppm | 7/29/2004 | |
| IC1 | AG18469 | TRG | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC1 | AG18470 | TRG | TOC | 35.5 | ppm | 7/22/2004 | |
| IC1 | AG18471 | TRG | pH, Ultimate BOD survey | 6.7 | pH units | 9/13/2004 | |
| IC1 | AG18471 | TRG | TOC (60 Day BOD) | 25.2 | ppm | 9/23/2004 | |
| IC1 | AG18471 | TRG | TKN (60 Day BOD) | 0.76 | ppm | 9/22/2004 | |
| IC1 | AG18471 | TRG | NO2NO3 - Initial Reading | ND | ppm | 8/3/2004 | 7/15/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 1 | ND | ppm | 8/3/2004 | 7/16/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 2 | ND | ppm | 8/3/2004 | 7/19/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 3 | ND | ppm | 8/10/2004 | 7/21/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 4 | ND | ppm | 8/10/2004 | 7/23/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 5 | ND | ppm | 8/18/2004 | 7/26/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 6 | ND | ppm | 8/18/2004 | 7/30/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 7 | ND | ppm | 8/24/2004 | 8/4/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 8 | 0.16 | ppm | 8/24/2004 | 8/13/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 9 | 0.22 | ppm | 9/14/2004 | 8/24/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Reading 10 | 0.28 | ppm | 9/14/2004 | 9/3/2004 |
| IC1 | AG18471 | TRG | NO2NO3 - Final | 0.31 | ppm | 10/5/2004 | 9/13/2004 |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 7/16/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.2 | ppm | 7/19/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.5 | ppm | 7/21/2004 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.6 | ppm | 7/23/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 5 | 7.2 | ppm | 7/26/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 6 | 9.5 | ppm | 7/30/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 7 | 11.7 | ppm | 8/4/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 8 | 16.0 | ppm | 8/13/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 9 | 19.2 | ppm | 8/24/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Reading 10 | 21.8 | ppm | 9/3/2004 | |
| IC1 | AG18471 | TRG | Non-Filtered BOD 60 - Final | 23.7 | ppm | 9/13/2004 | |
| IC1 | AG18472 | TRG | Chlorophyll A (raw) | 760 | ug/L | 8/4/2004 | |
| IC1 | AG18472 | TRG | Volume of sample, Chlorophyll A (raw) | 200 | ml | 8/3/2004 | |
| IC1 | AG18472 | TRG | Chlorophyll A (calculated) | 38.0 | ug/L | 8/4/2004 | |
| IC2 | AG18473 | TRG | TSS | 8.0 | ppm | 7/16/2004 | |
| IC2 | AG18473 | TRG | TDS | 436 | ppm | 7/16/2004 | |
| IC2 | AG18473 | TRG | Alkalinity | 230 | ppm | 7/21/2004 | |
| IC2 | AG18473 | TRG | Turbidity | 10 | NTU | 7/15/2004 | |
| IC2 | AG18473 | TRG | Specific Conductance | 696 | umhos/cm | 7/21/2004 | |
| IC2 | AG18473 | TRG | True Color | 55 | PCU | 7/15/2004 | |
| IC2 | AG18473 | TRG | Chloride, Ion Chromatograph | 76.1 | ppm | 7/26/2004 | |
| IC2 | AG18473 | TRG | Sulfate | 9.7 | ppm | 7/26/2004 | |
| IC2 | AG18474 | TRG | Hardness | 14.2 | ppm | 7/27/2004 | |
| IC2 | AG18474 | TRG | Nitrate+Nitrite Nitrogen | ND | ppm | 7/26/2004 | |
| IC2 | AG18474 | TRG | TP | 3.57 | ppm | 7/29/2004 | |
| IC2 | AG18474 | TRG | TKN | 1.91 | ppm | 7/29/2004 | |
| IC2 | AG18474 | TRG | Ammonia-Nitrogen | 0.44 | ppm | 7/22/2004 | |
| IC2 | AG18475 | TRG | TOC | 19.3 | ppm | 7/22/2004 | |
| IC2 | AG18476 | TRG | pH, Ultimate BOD survey | 8.1 | pH units | 9/13/2004 | |
| IC2 | AG18476 | TRG | TOC (60 Day BOD) | 11.8 | ppm | 9/23/2004 | |
| IC2 | AG18476 | TRG | TKN (60 Day BOD) | 0.71 | ppm | 9/22/2004 | |
| IC2 | AG18476 | TRG | NO2NO3 - Initial Reading | 0.29 | ppm | 8/3/2004 | 7/15/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 1 | 0.29 | ppm | 8/3/2004 | 7/16/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 2 | 0.44 | ppm | 8/3/2004 | 7/19/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 3 | 0.86 | ppm | 8/10/2004 | 7/21/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 4 | 0.92 | ppm | 8/10/2004 | 7/23/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 5 | 1.07 | ppm | 8/18/2004 | 7/26/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 6 | 1.32 | ppm | 8/18/2004 | 7/30/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 7 | 1.29 | ppm | 8/24/2004 | 8/4/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 8 | 1.44 | ppm | 8/24/2004 | 8/13/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Reading 9 | 1.58 | ppm | 9/14/2004 | 8/24/2004 |

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|---|---|---|---|---|---|---|---|
| IC2 | AG18476 | TRG | NO2NO3 - Reading 10 | 1.66 | ppm | 9/14/2004 | 9/3/2004 |
| IC2 | AG18476 | TRG | NO2NO3 - Final | 2.01 | ppm | 10/5/2004 | 9/13/2004 |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.2 | ppm | 7/16/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.1 | ppm | 7/19/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 3 | 8.1 | ppm | 7/21/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 4 | 9.9 | ppm | 7/23/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 5 | 13.0 | ppm | 7/26/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 6 | 16.7 | ppm | 7/30/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 7 | 18.9 | ppm | 8/4/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 8 | 22.2 | ppm | 8/13/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 9 | 25.6 | ppm | 8/24/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Reading 10 | 28.4 | ppm | 9/3/2004 | |
| IC2 | AG18476 | TRG | Non-Filtered BOD 60 - Final | 30.2 | ppm | 9/13/2004 | |
| IC2 | AG18477 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 8/3/2004 | |
| IC2 | AG18477 | TRG | Chlorophyll A (raw) | 198 | ug/L | 8/4/2004 | |
| IC2 | AG18477 | TRG | Chlorophyll A (calculated) | 7.9 | ug/L | 8/4/2004 | |
| IC3 | AG18478 | TRG | TSS | 6.0 | ppm | 7/16/2004 | |
| IC3 | AG18478 | TRG | TDS | 412 | ppm | 7/16/2004 | |
| IC3 | AG18478 | TRG | Alkalinity | 215 | ppm | 7/21/2004 | |
| IC3 | AG18478 | TRG | Turbidity | 13 | NTU | 7/15/2004 | |
| IC3 | AG18478 | TRG | Specific Conductance | 655 | umhos/cm | 7/21/2004 | |
| IC3 | AG18478 | TRG | True Color | 75 | PCU | 7/15/2004 | |
| IC3 | AG18478 | TRG | Chloride, Ion Chromatograph | 71.8 | ppm | 7/26/2004 | |
| IC3 | AG18478 | TRG | Sulfate | 9.4 | ppm | 7/26/2004 | |
| IC3 | AG18479 | TRG | Hardness | 18.1 | ppm | 7/27/2004 | |
| IC3 | AG18479 | TRG | Nitrate+Nitrite Nitrogen | 0.10 | ppm | 7/26/2004 | |
| IC3 | AG18479 | TRG | TP | 3.35 | ppm | 7/29/2004 | |
| IC3 | AG18479 | TRG | TKN | 1.95 | ppm | 7/29/2004 | |
| IC3 | AG18479 | TRG | Ammonia-Nitrogen | 0.49 | ppm | 7/22/2004 | |
| IC3 | AG18480 | TRG | TOC | 18.1 | ppm | 7/22/2004 | |
| IC3 | AG18481 | TRG | pH, Ultimate BOD survey | 8.1 | pH units | 9/13/2004 | |
| IC3 | AG18481 | TRG | TOC (60 Day BOD) | 11.8 | ppm | 9/23/2004 | |
| IC3 | AG18481 | TRG | TKN (60 Day BOD) | 0.61 | ppm | 9/22/2004 | |
| IC3 | AG18481 | TRG | NO2NO3 - Initial Reading | 0.37 | ppm | 8/3/2004 | 7/15/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 1 | 0.37 | ppm | 8/3/2004 | 7/16/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 2 | 0.52 | ppm | 8/3/2004 | 7/19/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 3 | 0.96 | ppm | 8/10/2004 | 7/21/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 4 | 1.05 | ppm | 8/10/2004 | 7/23/2004 |

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|---|---|---|---|---|---|---|---|
| IC3 | AG18481 | TRG | NO2NO3 - Reading 5 | 1.26 | ppm | 8/18/2004 | 7/26/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 6 | 1.38 | ppm | 8/18/2004 | 7/30/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 7 | 1.34 | ppm | 8/24/2004 | 8/4/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 8 | 1.53 | ppm | 8/24/2004 | 8/13/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 9 | 1.62 | ppm | 9/14/2004 | 8/24/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Reading 10 | 1.68 | ppm | 9/14/2004 | 9/3/2004 |
| IC3 | AG18481 | TRG | NO2NO3 - Final | 2.01 | ppm | 10/5/2004 | 9/13/2004 |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 7/16/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.8 | ppm | 7/19/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 3 | 8.1 | ppm | 7/21/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 4 | 10.0 | ppm | 7/23/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 5 | 13.1 | ppm | 7/26/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 6 | 15.6 | ppm | 7/30/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 7 | 18.2 | ppm | 8/4/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 8 | 21.4 | ppm | 8/13/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 9 | 23.8 | ppm | 8/24/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Reading 10 | 25.8 | ppm | 9/3/2004 | |
| IC3 | AG18481 | TRG | Non-Filtered BOD 60 - Final | 27.5 | ppm | 9/13/2004 | |
| IC3 | AG18482 | TRG | Chlorophyll A (raw) | 176 | ug/L | 8/4/2004 | |
| IC3 | AG18482 | TRG | Chlorophyll A (calculated) | 7.0 | ug/L | 8/4/2004 | |
| IC3 | AG18482 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 8/3/2004 | |
| IC4 | AG18483 | TRG | TSS | ND | ppm | 7/16/2004 | |
| IC4 | AG18483 | TRG | TDS | 165 | ppm | 7/16/2004 | |
| IC4 | AG18483 | TRG | Alkalinity | 59.1 | ppm | 7/21/2004 | |
| IC4 | AG18483 | TRG | Turbidity | 19 | NTU | 7/15/2004 | |
| IC4 | AG18483 | TRG | Specific Conductance | 206 | umhos/cm | 7/21/2004 | |
| IC4 | AG18483 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| IC4 | AG18483 | TRG | Chloride, Ion Chromatograph | 21.1 | ppm | 7/27/2004 | |
| IC4 | AG18483 | TRG | Sulfate | 11.5 | ppm | 7/27/2004 | |
| IC4 | AG18484 | TRG | Hardness | 24.1 | ppm | 7/22/2004 | |
| IC4 | AG18484 | TRG | Nitrate+Nitrite Nitrogen | 0.41 | ppm | 7/26/2004 | |
| IC4 | AG18484 | TRG | TP | 0.35 | ppm | 7/29/2004 | |
| IC4 | AG18484 | TRG | TKN | 0.43 | ppm | 7/29/2004 | |
| IC4 | AG18484 | TRG | Ammonia-Nitrogen | 0.12 | ppm | 7/22/2004 | |
| IC4 | AG18485 | TRG | TOC | 12.8 | ppm | 7/22/2004 | |
| IC4 | AG18486 | TRG | pH, Ultimate BOD survey | 7.6 | pH units | 9/13/2004 | |
| IC4 | AG18486 | TRG | TOC (60 Day BOD) | 11.2 | ppm | 9/23/2004 | |
| IC4 | AG18486 | TRG | TKN (60 Day BOD) | 0.18 | ppm | 9/22/2004 | |

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|---|---|---|---|---|---|---|---|
| IC4 | AG18486 | TRG | NO2NO3 - Initial Reading | 0.10 | ppm | 8/3/2004 | 7/15/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 1 | 0.10 | ppm | 8/3/2004 | 7/16/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 2 | 0.13 | ppm | 8/3/2004 | 7/19/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 3 | 0.10 | ppm | 8/10/2004 | 7/21/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 4 | 0.10 | ppm | 8/10/2004 | 7/23/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 5 | 0.12 | ppm | 8/18/2004 | 7/26/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 6 | 0.20 | ppm | 8/18/2004 | 7/30/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 7 | 0.23 | ppm | 8/24/2004 | 8/4/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 8 | 0.27 | ppm | 8/24/2004 | 8/13/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 9 | 0.32 | ppm | 9/14/2004 | 8/24/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Reading 10 | 0.33 | ppm | 9/14/2004 | 9/3/2004 |
| IC4 | AG18486 | TRG | NO2NO3 - Final | 0.38 | ppm | 9/14/2004 | 9/13/2004 |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.5 | ppm | 7/16/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 2 | 1.5 | ppm | 7/19/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 3 | 2.7 | ppm | 7/19/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.1 | ppm | 7/19/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 5 | 4.1 | ppm | 7/26/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 6 | 4.9 | ppm | 7/30/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 7 | 5.8 | ppm | 8/4/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 8 | 6.6 | ppm | 8/13/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 9 | 7.5 | ppm | 8/24/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Reading 10 | 8.1 | ppm | 9/3/2004 | |
| IC4 | AG18486 | TRG | Non-Filtered BOD 60 - Final | 8.9 | ppm | 9/13/2004 | |
| IC5 | AG18487 | TRG | TSS | 10.0 | ppm | 7/16/2004 | |
| IC5 | AG18487 | TRG | TDS | 133 | ppm | 7/16/2004 | |
| IC5 | AG18487 | TRG | Alkalinity | 34.9 | ppm | 7/21/2004 | |
| IC5 | AG18487 | TRG | Turbidity | 24 | NTU | 7/15/2004 | |
| IC5 | AG18487 | TRG | Specific Conductance | 140 | umhos/cm | 7/21/2004 | |
| IC5 | AG18487 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| IC5 | AG18487 | TRG | Chloride, Ion Chromatograph | 13.9 | ppm | 7/26/2004 | |
| IC5 | AG18487 | TRG | Sulfate | 10.7 | ppm | 7/26/2004 | |
| IC5 | AG18488 | TRG | Hardness | 27.9 | ppm | 7/22/2004 | |
| IC5 | AG18488 | TRG | Nitrate+Nitrite Nitrogen | 0.10 | ppm | 7/26/2004 | |
| IC5 | AG18488 | TRG | TP | 0.17 | ppm | 7/29/2004 | |
| IC5 | AG18488 | TRG | TKN | 0.38 | ppm | 7/29/2004 | |
| IC5 | AG18488 | TRG | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC5 | AG18489 | TRG | TOC | 12.8 | ppm | 7/22/2004 | |
| IC5 | AG18490 | TRG | pH, Ultimate BOD survey | 7.3 | pH units | 9/13/2004 | |

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|---|---|---|---|---|---|---|---|
| IC5 | AG18490 | TRG | TOC (60 Day BOD) | 11.3 | ppm | 9/23/2004 | |
| IC5 | AG18490 | TRG | TKN (60 Day BOD) | 0.32 | ppm | 9/22/2004 | |
| IC5 | AG18490 | TRG | NO2NO3 - Initial Reading | 0.10 | ppm | 8/3/2004 | 7/15/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 1 | 0.09 | ppm | 8/3/2004 | 7/16/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 2 | 0.10 | ppm | 8/3/2004 | 7/19/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 3 | 0.09 | ppm | 8/10/2004 | 7/21/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 4 | 0.09 | ppm | 8/10/2004 | 7/23/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 5 | 0.14 | ppm | 8/18/2004 | 7/26/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 6 | 0.22 | ppm | 8/18/2004 | 7/30/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 7 | 0.22 | ppm | 8/24/2004 | 8/4/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 8 | 0.25 | ppm | 8/24/2004 | 8/13/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 9 | 0.29 | ppm | 9/14/2004 | 8/24/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Reading 10 | 0.30 | ppm | 9/14/2004 | 9/3/2004 |
| IC5 | AG18490 | TRG | NO2NO3 - Final | 0.34 | ppm | 10/5/2004 | 9/13/2004 |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.6 | ppm | 7/16/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 2 | 1.8 | ppm | 7/19/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 3 | 2.8 | ppm | 7/21/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.4 | ppm | 7/23/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 5 | 4.1 | ppm | 7/26/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 6 | 4.9 | ppm | 7/30/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 7 | 5.6 | ppm | 8/4/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 8 | 6.6 | ppm | 8/13/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 9 | 7.4 | ppm | 8/24/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Reading 10 | 8.1 | ppm | 9/3/2004 | |
| IC5 | AG18490 | TRG | Non-Filtered BOD 60 - Final | 8.7 | ppm | 9/13/2004 | |
| IC5 | AG18491 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 8/3/2004 | |
| IC5 | AG18491 | TRG | Chlorophyll A (calculated) | n.d. | ug/L | 8/4/2004 | |
| IC5 | AG18491 | TRG | Chlorophyll A (raw) | 6.23 | ug/L | 8/4/2004 | |
| IC6 | AG18492 | TRG | TSS | ND | ppm | 7/16/2004 | |
| IC6 | AG18492 | TRG | TDS | 130 | ppm | 7/16/2004 | |
| IC6 | AG18492 | TRG | Alkalinity | 31.9 | ppm | 7/21/2004 | |
| IC6 | AG18492 | TRG | Turbidity | 23 | NTU | 7/15/2004 | |
| IC6 | AG18492 | TRG | Specific Conductance | 131 | umhos/cm | 7/21/2004 | |
| IC6 | AG18492 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| IC6 | AG18492 | TRG | Chloride, Ion Chromatograph | 11.7 | ppm | 7/26/2004 | |
| IC6 | AG18492 | TRG | Sulfate | 12.7 | ppm | 7/26/2004 | |
| IC6 | AG18493 | TRG | Hardness | 30.3 | ppm | 7/27/2004 | |
| IC6 | AG18493 | TRG | Nitrate+Nitrite Nitrogen | 0.09 | ppm | 7/26/2004 | |

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|---|---|---|---|---|---|---|---|
| IC6 | AG18493 | TRG | TP | 0.15 | ppm | 7/29/2004 | |
| IC6 | AG18493 | TRG | TKN | 0.12 | ppm | 7/29/2004 | |
| IC6 | AG18493 | TRG | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC6 | AG18494 | TRG | TOC | 13.8 | ppm | 7/26/2004 | |
| IC6 | AG18495 | TRG | pH, Ultimate BOD survey | 7.4 | pH units | 9/13/2004 | |
| IC6 | AG18495 | TRG | TOC (60 Day BOD) | 11.3 | ppm | 9/23/2004 | |
| IC6 | AG18495 | TRG | TKN (60 Day BOD) | 0.32 | ppm | 9/22/2004 | |
| IC6 | AG18495 | TRG | NO2NO3 - Initial Reading | 0.09 | ppm | 8/3/2004 | 7/15/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 1 | 0.09 | ppm | 8/3/2004 | 7/16/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 2 | 0.09 | ppm | 8/3/2004 | 7/19/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 3 | 0.08 | ppm | 8/10/2004 | 7/21/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 4 | 0.08 | ppm | 8/10/2004 | 7/23/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 5 | 0.14 | ppm | 8/18/2004 | 7/26/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 6 | 0.24 | ppm | 8/18/2004 | 7/30/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 7 | 0.28 | ppm | 8/24/2004 | 8/4/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 8 | 0.31 | ppm | 8/24/2004 | 8/13/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 9 | 0.34 | ppm | 9/14/2004 | 8/24/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Reading 10 | 0.35 | ppm | 9/14/2004 | 9/3/2004 |
| IC6 | AG18495 | TRG | NO2NO3 - Final | 0.40 | ppm | 10/5/2004 | 9/13/2004 |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.8 | ppm | 7/16/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 2 | 1.9 | ppm | 7/19/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 3 | 2.8 | ppm | 7/21/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.3 | ppm | 7/23/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 5 | 4.1 | ppm | 7/26/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 6 | 5.1 | ppm | 7/30/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 7 | 5.9 | ppm | 8/4/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 8 | 6.8 | ppm | 8/13/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 9 | 7.6 | ppm | 8/24/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Reading 10 | 8.3 | ppm | 9/3/2004 | |
| IC6 | AG18495 | TRG | Non-Filtered BOD 60 - Final | 8.9 | ppm | 9/13/2004 | |
| IC8 | AG18496 | FB | TSS | ND | ppm | 7/16/2004 | |
| IC8 | AG18496 | FB | TDS | ND | ppm | 7/16/2004 | |
| IC8 | AG18496 | FB | Alkalinity | ND | ppm | 7/21/2004 | |
| IC8 | AG18496 | FB | Turbidity | ND | NTU | 7/15/2004 | |
| IC8 | AG18496 | FB | Specific Conductance | ND | umhos/cm | 7/21/2004 | |
| IC8 | AG18496 | FB | True Color | ND | PCU | 7/15/2004 | |
| IC8 | AG18496 | FB | Chloride, Ion Chromatograph | ND | ppm | 7/26/2004 | |
| IC8 | AG18496 | FB | Sulfate | ND | ppm | 7/26/2004 | |

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|---|---|---|---|---|---|---|---|
| IC8 | AG18497 | FB | Hardness | ND | ppm | 7/23/2004 | |
| IC8 | AG18497 | FB | Nitrate+Nitrite Nitrogen | ND | ppm | 7/26/2004 | |
| IC8 | AG18497 | FB | TP | ND | ppm | 7/29/2004 | |
| IC8 | AG18497 | FB | TKN | ND | ppm | 7/29/2004 | |
| IC8 | AG18497 | FB | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC8 | AG18498 | FB | TOC | ND | ppm | 7/26/2004 | |
| IC8 | AG18499 | FB | pH, Ultimate BOD survey | 7.4 | pH units | 9/13/2004 | |
| IC8 | AG18499 | FB | TOC (60 Day BOD) | ND | ppm | 9/23/2004 | |
| IC8 | AG18499 | FB | TKN (60 Day BOD) | ND | ppm | 9/22/2004 | |
| IC8 | AG18499 | FB | NO2NO3 - Initial Reading | ND | ppm | 8/3/2004 | 7/15/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 1 | ND | ppm | 8/3/2004 | 7/16/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 2 | ND | ppm | 8/3/2004 | 7/19/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 3 | ND | ppm | 8/10/2004 | 7/21/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 4 | ND | ppm | 8/10/2004 | 7/23/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 5 | ND | ppm | 8/18/2004 | 7/26/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 6 | ND | ppm | 8/18/2004 | 7/30/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 7 | ND | ppm | 8/24/2004 | 8/4/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 8 | ND | ppm | 8/24/2004 | 8/13/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 9 | ND | ppm | 9/14/2004 | 8/24/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Reading 10 | ND | ppm | 9/14/2004 | 9/3/2004 |
| IC8 | AG18499 | FB | NO2NO3 - Final | ND | ppm | 10/5/2004 | 9/13/2004 |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 1 | 0.0 | ppm | 7/16/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 2 | 0.1 | ppm | 7/19/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 3 | 0.2 | ppm | 7/21/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 4 | 0.1 | ppm | 7/23/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 5 | 0.0 | ppm | 7/26/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 6 | 0.1 | ppm | 7/30/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 7 | 0.1 | ppm | 8/4/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 8 | 0.2 | ppm | 8/13/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 9 | 0.2 | ppm | 8/24/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Reading 10 | 0.2 | ppm | 9/3/2004 | |
| IC8 | AG18499 | FB | Non-Filtered BOD 60 - Final | 0.3 | ppm | 9/13/2004 | |
| IC8 | AG18500 | TRG | TSS | 6.0 | ppm | 7/16/2004 | |
| IC8 | AG18500 | TRG | TDS | 130 | ppm | 7/16/2004 | |
| IC8 | AG18500 | TRG | Alkalinity | 28.6 | ppm | 7/21/2004 | |
| IC8 | AG18500 | TRG | Turbidity | 29 | NTU | 7/15/2004 | |
| IC8 | AG18500 | TRG | Specific Conductance | 133 | umhos/cm | 7/21/2004 | |
| IC8 | AG18500 | TRG | True Color | 110 | PCU | 7/15/2004 | |

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|---|---|---|---|---|---|---|---|
| IC8 | AG18500 | TRG | Chloride, Ion Chromatograph | 10.7 | ppm | 7/27/2004 | |
| IC8 | AG18500 | TRG | Sulfate | 18.1 | ppm | 7/27/2004 | |
| IC8 | AG18501 | TRG | Hardness | 35.0 | ppm | 7/23/2004 | |
| IC8 | AG18501 | TRG | Nitrate+Nitrite Nitrogen | 0.12 | ppm | 7/26/2004 | |
| IC8 | AG18501 | TRG | TP | 0.10 | ppm | 7/29/2004 | |
| IC8 | AG18501 | TRG | TKN | 0.45 | ppm | 7/29/2004 | |
| IC8 | AG18501 | TRG | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC8 | AG18502 | TRG | TOC | 13.3 | ppm | 7/27/2004 | |
| IC8 | AG18503 | TRG | pH, Ultimate BOD survey | 7.1 | pH units | 9/13/2004 | |
| IC8 | AG18503 | TRG | TOC (60 Day BOD) | 11.5 | ppm | 9/23/2004 | |
| IC8 | AG18503 | TRG | TKN (60 Day BOD) | 0.45 | ppm | 9/23/2004 | |
| IC8 | AG18503 | TRG | NO2NO3 - Initial Reading | 0.11 | ppm | 8/3/2004 | 7/15/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 1 | 0.11 | ppm | 8/3/2004 | 7/16/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 2 | 0.12 | ppm | 8/3/2004 | 7/19/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 3 | 0.11 | ppm | 8/10/2004 | 7/21/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 4 | 0.10 | ppm | 8/10/2004 | 7/23/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 5 | 0.17 | ppm | 8/18/2004 | 7/26/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 6 | 0.28 | ppm | 8/18/2004 | 7/30/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 7 | 0.32 | ppm | 8/24/2004 | 8/4/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 8 | 0.33 | ppm | 8/24/2004 | 8/13/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 9 | 0.37 | ppm | 9/14/2004 | 8/24/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Reading 10 | 0.38 | ppm | 9/14/2004 | 9/3/2004 |
| IC8 | AG18503 | TRG | NO2NO3 - Final | 0.44 | ppm | 10/5/2004 | 9/13/2004 |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 7/16/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.2 | ppm | 7/19/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 3 | 2.8 | ppm | 7/21/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.1 | ppm | 7/23/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 5 | 4.0 | ppm | 7/26/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 6 | 5.0 | ppm | 7/30/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 7 | 6.0 | ppm | 8/4/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 8 | 6.9 | ppm | 8/13/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 9 | 7.9 | ppm | 8/24/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Reading 10 | 8.6 | ppm | 9/3/2004 | |
| IC8 | AG18503 | TRG | Non-Filtered BOD 60 - Final | 9.2 | ppm | 9/13/2004 | |
| IC8 | AG18504 | FD | TSS | 6.5 | ppm | 7/16/2004 | |
| IC8 | AG18504 | FD | TDS | 130 | ppm | 7/16/2004 | |
| IC8 | AG18504 | FD | Alkalinity | 28.7 | ppm | 7/21/2004 | |
| IC8 | AG18504 | FD | Turbidity | 30 | NTU | 7/15/2004 | |

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|---|---|---|---|---|---|---|---|
| IC8 | AG18504 | FD | Specific Conductance | 133 | umhos/cm | 7/21/2004 | |
| IC8 | AG18504 | FD | True Color | 110 | PCU | 7/15/2004 | |
| IC8 | AG18504 | FD | Chloride, Ion Chromatograph | 10.9 | ppm | 7/27/2004 | |
| IC8 | AG18504 | FD | Sulfate | 18.2 | ppm | 7/27/2004 | |
| IC8 | AG18505 | FD | Hardness | 37.5 | ppm | 7/23/2004 | |
| IC8 | AG18505 | FD | Nitrate+Nitrite Nitrogen | 0.12 | ppm | 7/26/2004 | |
| IC8 | AG18505 | FD | TP | 0.12 | ppm | 7/29/2004 | |
| IC8 | AG18505 | FD | TKN | 0.46 | ppm | 7/29/2004 | |
| IC8 | AG18505 | FD | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC8 | AG18506 | FD | TOC | 12.9 | ppm | 7/26/2004 | |
| IC8 | AG18507 | FD | pH, Ultimate BOD survey | 7.1 | pH units | 9/13/2004 | |
| IC8 | AG18507 | FD | TOC (60 Day BOD) | 11.8 | ppm | 9/23/2004 | |
| IC8 | AG18507 | FD | TKN (60 Day BOD) | 0.53 | ppm | 9/23/2004 | |
| IC8 | AG18507 | FD | NO2NO3 - Initial Reading | 0.11 | ppm | 8/3/2004 | 7/15/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 1 | 0.11 | ppm | 8/3/2004 | 7/16/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 2 | 0.11 | ppm | 8/3/2004 | 7/19/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 3 | 0.10 | ppm | 8/10/2004 | 7/21/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 4 | 0.11 | ppm | 8/10/2004 | 7/23/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 5 | 0.18 | ppm | 8/18/2004 | 7/26/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 6 | 0.27 | ppm | 8/18/2004 | 7/30/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 7 | 0.30 | ppm | 8/24/2004 | 8/4/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 8 | 0.32 | ppm | 8/24/2004 | 8/13/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 9 | 0.35 | ppm | 9/14/2004 | 8/24/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Reading 10 | 0.36 | ppm | 9/14/2004 | 9/3/2004 |
| IC8 | AG18507 | FD | NO2NO3 - Final | 0.42 | ppm | 10/5/2004 | 9/13/2004 |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 1 | 0.7 | ppm | 7/16/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 2 | 1.9 | ppm | 7/19/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 3 | 2.5 | ppm | 7/21/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 4 | 2.8 | ppm | 7/23/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 5 | 3.6 | ppm | 7/26/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 6 | 4.5 | ppm | 7/30/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 7 | 5.3 | ppm | 8/4/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 8 | 6.2 | ppm | 8/13/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 9 | 7.0 | ppm | 8/24/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Reading 10 | 7.7 | ppm | 9/3/2004 | |
| IC8 | AG18507 | FD | Non-Filtered BOD 60 - Final | 8.4 | ppm | 9/13/2004 | |
| IC9 | AG18508 | TRG | TSS | 7.0 | ppm | 7/16/2004 | |
| IC9 | AG18508 | TRG | TDS | 120 | ppm | 7/16/2004 | |

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|---|---|---|---|---|---|---|---|
| IC9 | AG18508 | TRG | Alkalinity | 24.4 | ppm | 7/21/2004 | |
| IC9 | AG18508 | TRG | Turbidity | 27 | NTU | 7/15/2004 | |
| IC9 | AG18508 | TRG | Specific Conductance | 116 | umhos/cm | 7/21/2004 | |
| IC9 | AG18508 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| IC9 | AG18508 | TRG | Chloride, Ion Chromatograph | 9.0 | ppm | 7/27/2004 | |
| IC9 | AG18508 | TRG | Sulfate | 17.0 | ppm | 7/27/2004 | |
| IC9 | AG18509 | TRG | Hardness | 34.0 | ppm | 7/23/2004 | |
| IC9 | AG18509 | TRG | Nitrate+Nitrite Nitrogen | 0.09 | ppm | 7/26/2004 | |
| IC9 | AG18509 | TRG | TP | 0.11 | ppm | 7/29/2004 | |
| IC9 | AG18509 | TRG | TKN | 0.41 | ppm | 7/29/2004 | |
| IC9 | AG18509 | TRG | Ammonia-Nitrogen | ND | ppm | 7/22/2004 | |
| IC9 | AG18510 | TRG | TOC | 14.4 | ppm | 7/26/2004 | |
| IC9 | AG18511 | TRG | pH, Ultimate BOD survey | 7.1 | pH units | 9/13/2004 | |
| IC9 | AG18511 | TRG | TOC (60 Day BOD) | 12.0 | ppm | 9/23/2004 | |
| IC9 | AG18511 | TRG | TKN (60 Day BOD) | 0.35 | ppm | 9/22/2004 | |
| IC9 | AG18511 | TRG | NO2NO3 - Initial Reading | 0.08 | ppm | 8/3/2004 | 7/15/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 1 | 0.08 | ppm | 8/3/2004 | 7/16/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 2 | 0.09 | ppm | 8/3/2004 | 7/19/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 3 | 0.08 | ppm | 8/10/2004 | 7/21/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 4 | 0.07 | ppm | 8/10/2004 | 7/23/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 5 | 0.11 | ppm | 8/18/2004 | 7/26/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 6 | 0.20 | ppm | 8/18/2004 | 7/30/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 7 | 0.32 | ppm | 8/24/2004 | 8/4/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 8 | 0.34 | ppm | 8/24/2004 | 8/13/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 9 | 0.39 | ppm | 9/14/2004 | 8/24/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Reading 10 | 0.40 | ppm | 9/14/2004 | 9/3/2004 |
| IC9 | AG18511 | TRG | NO2NO3 - Final | 0.46 | ppm | 10/5/2004 | 9/13/2004 |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 1 | 2.6 | ppm | 7/16/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.4 | ppm | 7/19/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.1 | ppm | 7/21/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.5 | ppm | 7/23/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.2 | ppm | 7/26/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.7 | ppm | 7/30/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 7 | 9.0 | ppm | 8/4/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.2 | ppm | 8/13/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 9 | 11.1 | ppm | 8/24/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Reading 10 | 11.8 | ppm | 9/3/2004 | |
| IC9 | AG18511 | TRG | Non-Filtered BOD 60 - Final | 12.6 | ppm | 9/13/2004 | |

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|---|---|---|---|---|---|---|---|
| RLC1 | AG18512 | TRG | TSS | 7.0 | ppm | 7/16/2004 | |
| RLC1 | AG18512 | TRG | TDS | 110 | ppm | 7/16/2004 | |
| RLC1 | AG18512 | TRG | Alkalinity | 25.5 | ppm | 7/21/2004 | |
| RLC1 | AG18512 | TRG | Turbidity | 25 | NTU | 7/15/2004 | |
| RLC1 | AG18512 | TRG | Specific Conductance | 102 | umhos/cm | 7/21/2004 | |
| RLC1 | AG18512 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| RLC1 | AG18512 | TRG | Chloride, Ion Chromatograph | 8.6 | ppm | 7/27/2004 | |
| RLC1 | AG18512 | TRG | Sulfate | 8.3 | ppm | 7/27/2004 | |
| RLC1 | AG18513 | TRG | Hardness | 28.0 | ppm | 7/23/2004 | |
| RLC1 | AG18513 | TRG | Nitrate+Nitrite Nitrogen | 0.07 | ppm | 7/26/2004 | |
| RLC1 | AG18513 | TRG | TP | 0.10 | ppm | 7/29/2004 | |
| RLC1 | AG18513 | TRG | TKN | 0.66 | ppm | 8/5/2004 | |
| RLC1 | AG18513 | TRG | Ammonia-Nitrogen | 0.22 | ppm | 7/23/2004 | |
| RLC1 | AG18514 | TRG | TOC | 13.3 | ppm | 7/26/2004 | |
| RLC1 | AG18515 | TRG | pH, Ultimate BOD survey | 7.1 | pH units | 9/13/2004 | |
| RLC1 | AG18515 | TRG | TOC (60 Day BOD) | 10.8 | ppm | 9/23/2004 | |
| RLC1 | AG18515 | TRG | TKN (60 Day BOD) | 0.19 | ppm | 9/22/2004 | |
| RLC1 | AG18515 | TRG | NO2NO3 - Initial Reading | 0.06 | ppm | 8/3/2004 | 7/15/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 1 | 0.06 | ppm | 8/3/2004 | 7/16/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 2 | 0.06 | ppm | 8/3/2004 | 7/19/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 3 | 0.05 | ppm | 8/10/2004 | 7/21/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 4 | 0.05 | ppm | 8/10/2004 | 7/23/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 5 | 0.09 | ppm | 8/18/2004 | 7/26/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 6 | 0.16 | ppm | 8/18/2004 | 7/30/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 7 | 0.13 | ppm | 8/24/2004 | 8/4/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 8 | 0.16 | ppm | 8/24/2004 | 8/13/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 9 | 0.19 | ppm | 9/14/2004 | 8/24/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Reading 10 | 0.20 | ppm | 9/14/2004 | 9/3/2004 |
| RLC1 | AG18515 | TRG | NO2NO3 - Final | 0.22 | ppm | 10/5/2004 | 9/13/2004 |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.3 | ppm | 7/16/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 2 | 1.1 | ppm | 7/19/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 3 | 1.6 | ppm | 7/21/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 4 | 1.9 | ppm | 7/23/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 5 | 2.5 | ppm | 7/26/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 6 | 3.1 | ppm | 7/30/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 7 | 3.6 | ppm | 8/4/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 8 | 4.5 | ppm | 8/13/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 9 | 5.2 | ppm | 8/24/2004 | |

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|---|---|---|---|---|---|---|---|
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Reading 10 | 5.8 | ppm | 9/3/2004 | |
| RLC1 | AG18515 | TRG | Non-Filtered BOD 60 - Final | 6.4 | ppm | 9/13/2004 | |
| CRC1 | AG18516 | TRG | TSS | 26.5 | ppm | 7/16/2004 | |
| CRC1 | AG18516 | TRG | TDS | 138 | ppm | 7/16/2004 | |
| CRC1 | AG18516 | TRG | Alkalinity | 28.0 | ppm | 7/22/2004 | |
| CRC1 | AG18516 | TRG | Turbidity | 54 | NTU | 7/15/2004 | |
| CRC1 | AG18516 | TRG | Specific Conductance | 135 | umhos/cm | 7/22/2004 | |
| CRC1 | AG18516 | TRG | True Color | 110 | PCU | 7/15/2004 | |
| CRC1 | AG18516 | TRG | Chloride, Ion Chromatograph | 11.5 | ppm | 7/27/2004 | |
| CRC1 | AG18516 | TRG | Sulfate | 21.7 | ppm | 7/27/2004 | |
| CRC1 | AG18517 | TRG | Hardness | 42.4 | ppm | 7/23/2004 | |
| CRC1 | AG18517 | TRG | Nitrate+Nitrite Nitrogen | ND | ppm | 7/26/2004 | |
| CRC1 | AG18517 | TRG | TP | 0.12 | ppm | 7/29/2004 | |
| CRC1 | AG18517 | TRG | TKN | 0.64 | ppm | 7/29/2004 | |
| CRC1 | AG18517 | TRG | Ammonia-Nitrogen | 0.29 | ppm | 7/23/2004 | |
| CRC1 | AG18518 | TRG | TOC | 12.9 | ppm | 7/26/2004 | |
| CRC1 | AG18519 | TRG | pH, Ultimate BOD survey | 7.1 | pH units | 9/13/2004 | |
| CRC1 | AG18519 | TRG | TOC (60 Day BOD) | 10.6 | ppm | 9/23/2004 | |
| CRC1 | AG18519 | TRG | TKN (60 Day BOD) | 0.31 | ppm | 9/22/2004 | |
| CRC1 | AG18519 | TRG | NO2NO3 - Initial Reading | ND | ppm | 8/3/2004 | 7/15/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 1 | ND | ppm | 8/3/2004 | 7/16/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 2 | 0.05 | ppm | 8/3/2004 | 7/19/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 3 | ND | ppm | 8/10/2004 | 7/21/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 4 | 0.11 | ppm | 8/10/2004 | 7/23/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 5 | 0.25 | ppm | 8/18/2004 | 7/26/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 6 | 0.43 | ppm | 8/18/2004 | 7/30/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 7 | 0.45 | ppm | 8/24/2004 | 8/4/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 8 | 0.53 | ppm | 8/24/2004 | 8/13/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 9 | 0.55 | ppm | 9/14/2004 | 8/24/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Reading 10 | 0.58 | ppm | 9/14/2004 | 9/3/2004 |
| CRC1 | AG18519 | TRG | NO2NO3 - Final | 0.65 | ppm | 10/5/2004 | 9/13/2004 |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.5 | ppm | 7/16/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.1 | ppm | 7/19/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 3 | 3.4 | ppm | 7/21/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.4 | ppm | 7/23/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.3 | ppm | 7/26/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.7 | ppm | 7/30/2004 | |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 7 | 8.7 | ppm | 8/4/2004 | |

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|---|---|---|---|---|---|---|
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.0 | ppm | 8/13/2004 |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 9 | 10.9 | ppm | 8/24/2004 |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Reading 10 | 11.7 | ppm | 9/3/2004 |
| CRC1 | AG18519 | TRG | Non-Filtered BOD 60 - Final | 12.4 | ppm | 9/13/2004 |

## Iatt Creek 101303 Lab WQ Cross Tab Report

| SITE | Chloride | Sulfate | Hardness | Alkalinity | Conductivity | TOC | TP | TDS | TSS | NH3 | Nit Nit | TKN | Chl A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CRC1 | 11.5 | 21.7 | 42.4 | 28 | 135 | 12.9 | 0.1 | 138 | 26.5 | 0.29 | ND | 0.64 | |
| IC1 | 4.8 | 43.8 | 75.1 | 22 | 168 | 35.5 | 0.1 | 176 | 14 | ND | 0.27 | 1.12 | 38 |
| IC2 | 76.1 | 9.7 | 14.2 | 230 | 696 | 19.3 | 3.6 | 436 | 8 | 0.44 | ND | 1.91 | 7.9 |
| IC3 | 71.8 | 9.4 | 18.1 | 215 | 655 | 18.1 | 3.4 | 412 | 6 | 0.49 | 0.1 | 1.95 | 7 |
| IC4 | 21.1 | 11.5 | 24.1 | 59.1 | 206 | 12.8 | 0.4 | 165 | ND | 0.12 | 0.41 | 0.43 | |
| IC5 | 13.9 | 10.7 | 27.9 | 34.9 | 140 | 12.8 | 0.2 | 133 | 10 | ND | 0.1 | 0.38 | n.d. |
| IC6 | 11.7 | 12.7 | 30.3 | 31.9 | 131 | 13.8 | 0.2 | 130 | ND | ND | 0.09 | 0.12 | |
| IC8 | 10.7 | 18.1 | 35 | 28.6 | 133 | 13.3 | 0.1 | 130 | 6 | ND | 0.12 | 0.45 | |
| IC9 | 9 | 17 | 34 | 24.4 | 116 | 14.4 | 0.1 | 120 | 7 | ND | 0.09 | 0.41 | |
| RLC1 | 8.6 | 8.3 | 28 | 25.5 | 102 | 13.3 | 0.1 | 110 | 7 | 0.22 | 0.07 | 0.66 | |

## Iatt Creek 101303 Survey Insitu Measurements

| SITE ID | Date | Time | DEPTH (meters) | TEMP ($^oC$) | DO (mg/L) | DO SAT | pH | COND | SECCHI (inches) | SALINITY (ppt) |
|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | 7/14/2004 | 11:00:00 AM | 0.15 | 27.13 | 1.69 | 21.3 | 6.00 | 167.1 | 18 | 0.07 |
| IC2 | 7/14/2004 | 12:30:00 PM | 0.30 | 30.26 | 6.86 | 91.4 | 7.80 | 680.8 | 18 | 0.35 |
| IC3 | 7/14/2004 | 11:30:00 AM | 0.15 | 26.58 | 3.51 | 43.8 | 7.48 | 637.1 | 6 | 0.33 |
| IC4 | 7/14/2004 | 8:45:00 AM | 0.15 | 24.60 | 4.13 | 50.0 | 6.99 | 192.4 | | 0.09 |
| IC5 | 7/14/2004 | 11:30:00 AM | 0.50 | 25.18 | 5.96 | 72.2 | 6.71 | 116.7 | 16 | 0.05 |
| IC6 | 7/14/2004 | 10:35:00 AM | 0.50 | 25.52 | 3.96 | 48.5 | 6.69 | 109.5 | 6 | 0.04 |
| IC8 | 7/14/2004 | 10:00:00 AM | 1.00 | 25.88 | 3.85 | 47.6 | 6.69 | 123.0 | | 0.05 |
| IC9 | 7/14/2004 | 12:35:00 PM | 1.00 | 27.18 | 2.07 | 25.8 | 6.67 | 107.8 | 24 | 0.04 |
| RLC1 | 7/14/2004 | 9:45:00 AM | 0.15 | 24.29 | 4.00 | 47.7 | 6.44 | 89.1 | | 0.03 |
| CRC1 | 7/14/2004 | 9:30:00 AM | 0.50 | 24.96 | 3.31 | 40.0 | 6.41 | 123.4 | 6 | 0.05 |

# Appendix F2 – Cross Sections and Discharge Measurements

## Iatt Creek 101303

### Field Data Summary -- Discharges and Cross Sections

| Site # | Width (ft) | Width (m) | Depth (ft) | Depth (m) | Flow (cfs) | Flow (cms) |
|---|---|---|---|---|---|---|
| 1 | 2.2 | 0.671 | 0.10 | 0.030 | 0.070 | 0.0020 |
| 2 | 4.7 | 1.433 | 0.18 | 0.055 | 0.450 | 0.0127 |
| 3 | 6.1 | 1.859 | 0.19 | 0.058 | 0.420 | 0.0119 |
| 4 | 7.5 | 2.286 | 0.60 | 0.183 | 1.080 | 0.0306 |
| 5 | 18.0 | 5.486 | 1.06 | 0.323 | 3.300 | 0.0935 |
| 6 | 35.0 | 10.668 | 1.83 | 0.558 | | |
| 8 | 25.0 | 7.620 | 2.06 | 0.628 | 4.320 | 0.1223 |
| RLC | 6.4 | 1.951 | 0.24 | 0.073 | 0.660 | 0.0187 |
| CRC | 8.3 | 2.530 | 0.24 | 0.073 | 1.300 | 0.0368 |

## Iatt Creek 101303

### Width and Depth Input Values

| Reach # | Calculation | Width (m) | Depth (m) |
|---|---|---|---|
| 1 | Average (IC1,IC2,IC3) | 1.321 | 0.048 |
| 2 | Average (IC3,IC4) | 2.073 | 0.120 |
| 3 | Average (IC4,IC5) | 3.886 | 0.253 |
| 4 | Average (IC5,IC6) | 8.077 | 0.440 |
| 5 | Average (IC6,IC8) | 9.144 | 0.593 |
| 6 | IC8 | 7.620 | 0.628 |

| Iatt Creek 101303 Flow Input | | Calculation | Flow (cms) |
|---|---|---|---|
| Headwater | | IC1 | 0.0020 |
| Incremental Outflow | Reach 1 | IC3 - IC1 - IC2 | -0.0028 |
| Incremental Inflow | Reach 2 | IC4 - IC3 | 0.0187 |
| Incremental Inflow | Reach 3 | IC5 - IC4 - RLC | 0.0442 |
| Incremental Inflow | Reach 4 | | |
| Incremental Outflow | Reach 5 | IC8 - IC5 - CC | -0.0079 |
| Incremental Inflow | Reach 6 | | |
| Discharger | WINN | IC2 | 0.0127 |
| Tributary | RLC | RC1 | 0.0187 |
| Tributary | CC | CC1 | 0.0368 |

**Iatt Creek 101303 Flow Calculations For Sites 1 and 8**

**Site 1 Wading Measurement**

| Site | Distance (ft) | Time (sec) | Velocity (ft/s) | Area(ft*2) |
|---|---|---|---|---|
| Meas 1 | N/A | 40 | 0.21 | 0.22 |
| Meas 2 | N/A | 40 | 0.45 | 0.22 |
| Meas 3 | N/A | 40 | 0.29 | 0.22 |
| | | **Average** | **0.32** | |

**Site 1 Average Flow = 0.07 cfs** **0.002 cms**

**Average Flow = Velocity * Cross-Sectional Area**

**Site 8 Drogue Measurement**

| Site | Distance (ft) | Time (sec) | Velocity (ft/s) | Area(ft*2) |
|---|---|---|---|---|
| Meas 1 | 30 | 202 | 0.15 | 51.4 |
| Meas 2 | 30 | 200 | 0.15 | 51.4 |
| Meas 3 | 30 | 225 | 0.13 | 51.4 |
| | | **Average** | **0.14** | |

**Site 8 Average Flow = 4.32 cfs** **0.122 cms**

**Average Flow = 0.6 * Velocity * Cross-Sectional Area**

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 1 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** behind Winn Correctional Center
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:**
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 2.20 |
| AREA[2] ($ft^2$): | 0.22 |
| AVG. DEPTH[3](ft): | 0.10 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 1.0 | 0.05 | 0.00 | 0.00 | 0.00% |
| 2 | 1.1 | 0.10 | 0.05 | 0.01 | 2.25% |
| 3 | 1.2 | 0.10 | 0.05 | 0.01 | 2.25% |
| 4 | 1.3 | 0.15 | 0.05 | 0.01 | 3.37% |
| 5 | 1.5 | 0.20 | 0.10 | 0.02 | 8.99% |
| 6 | 1.7 | 0.25 | 0.20 | 0.05 | 22.47% |
| 7 | 2.0 | 0.30 | 0.20 | 0.06 | 26.97% |
| 8 | 2.3 | 0.30 | 0.10 | 0.03 | 13.48% |
| 9 | 2.6 | 0.25 | 0.10 | 0.03 | 11.24% |
| 10 | 2.8 | 0.20 | 0.05 | 0.01 | 4.49% |
| 11 | 3.0 | 0.20 | 0.05 | 0.01 | 4.49% |
| 12 | 3.2 | 0.10 | 0.00 | 0.00 | 0.00% |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
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| 29 | | | | | |
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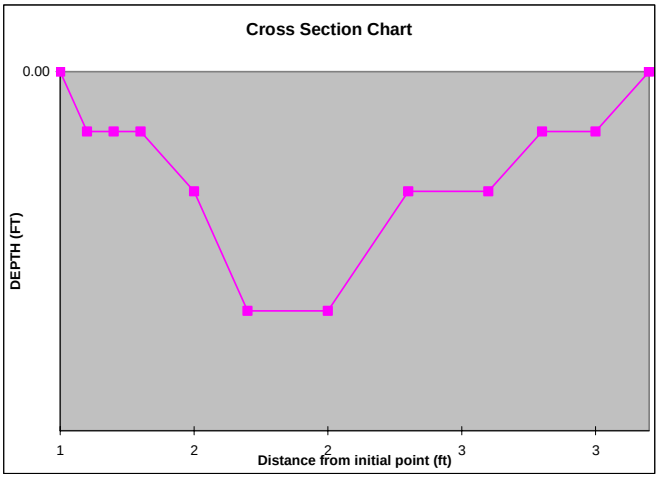
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 2.20 | | 0.22 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Garner/Dickinson/Hughes | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Garner/Dickinson/Hughes | Data Input Checked by / Date: | |
| Other: | | | |

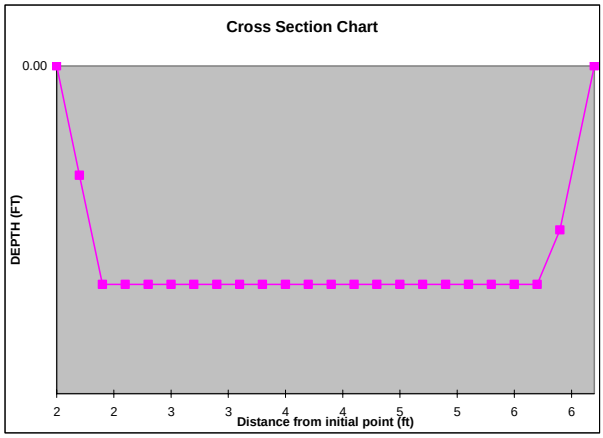
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 2 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** below Winn Correctional Center wastewater outflow
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:**
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 4.70 |
| AREA[2] ($ft^2$): | 0.86 |
| AVG. DEPTH[3](ft): | 0.18 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 1.7 | 0.10 | 0.00 | 0.00 | 0.00% |
| 2 | 1.9 | 0.20 | 0.10 | 0.02 | 2.33% |
| 3 | 2.1 | 0.20 | 0.20 | 0.04 | 4.66% |
| 4 | 2.3 | 0.20 | 0.20 | 0.04 | 4.66% |
| 5 | 2.5 | 0.20 | 0.20 | 0.04 | 4.66% |
| 6 | 2.7 | 0.20 | 0.20 | 0.04 | 4.66% |
| 7 | 2.9 | 0.20 | 0.20 | 0.04 | 4.66% |
| 8 | 3.1 | 0.20 | 0.20 | 0.04 | 4.66% |
| 9 | 3.3 | 0.20 | 0.20 | 0.04 | 4.66% |
| 10 | 3.5 | 0.20 | 0.20 | 0.04 | 4.66% |
| 11 | 3.7 | 0.20 | 0.20 | 0.04 | 4.66% |
| 12 | 3.9 | 0.20 | 0.20 | 0.04 | 4.66% |
| 13 | 4.1 | 0.20 | 0.20 | 0.04 | 4.66% |
| 14 | 4.3 | 0.20 | 0.20 | 0.04 | 4.66% |
| 15 | 4.5 | 0.20 | 0.20 | 0.04 | 4.66% |
| 16 | 4.7 | 0.20 | 0.20 | 0.04 | 4.66% |
| 17 | 4.9 | 0.20 | 0.20 | 0.04 | 4.66% |
| 18 | 5.1 | 0.20 | 0.20 | 0.04 | 4.66% |
| 19 | 5.3 | 0.20 | 0.20 | 0.04 | 4.66% |
| 20 | 5.5 | 0.20 | 0.20 | 0.04 | 4.66% |
| 21 | 5.7 | 0.20 | 0.20 | 0.04 | 4.66% |
| 22 | 5.9 | 0.20 | 0.20 | 0.04 | 4.66% |
| 23 | 6.1 | 0.25 | 0.15 | 0.04 | 4.37% |
| 24 | 6.4 | 0.15 | 0.00 | 0.00 | 0.00% |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 4.70 | | 0.86 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Garner/Dickinson/Hughes | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Garner/Dickinson/Hughes | Data Input Checked by / Date: | |
| Other: | | | |

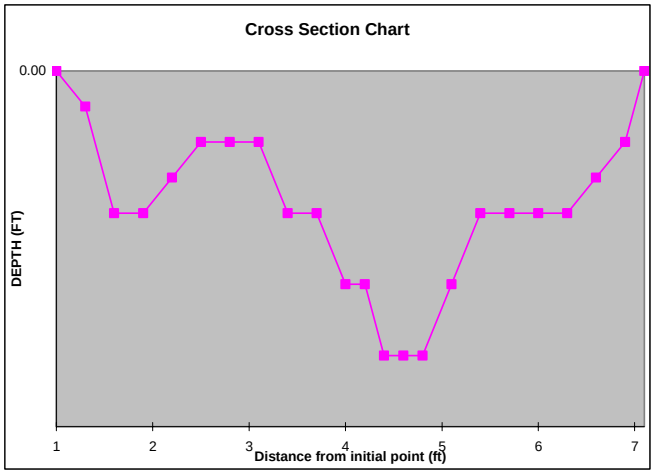
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 3 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** at Unnamed Road off Archie Jones Rd.
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** 7.05 ft at 1130hrs
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 6.10 |
| AREA[2] (ft$^2$): | 1.19 |
| AVG. DEPTH[3](ft): | 0.19 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 1.0 | 0.15 | 0.00 | 0.00 | 0.00% |
| 2 | 1.3 | 0.30 | 0.05 | 0.02 | 1.27% |
| 3 | 1.6 | 0.30 | 0.20 | 0.06 | 5.06% |
| 4 | 1.9 | 0.30 | 0.20 | 0.06 | 5.06% |
| 5 | 2.2 | 0.30 | 0.15 | 0.05 | 3.80% |
| 6 | 2.5 | 0.30 | 0.10 | 0.03 | 2.53% |
| 7 | 2.8 | 0.30 | 0.10 | 0.03 | 2.53% |
| 8 | 3.1 | 0.30 | 0.10 | 0.03 | 2.53% |
| 9 | 3.4 | 0.30 | 0.20 | 0.06 | 5.06% |
| 10 | 3.7 | 0.30 | 0.20 | 0.06 | 5.06% |
| 11 | 4.0 | 0.25 | 0.30 | 0.08 | 6.33% |
| 12 | 4.2 | 0.20 | 0.30 | 0.06 | 5.06% |
| 13 | 4.4 | 0.20 | 0.40 | 0.08 | 6.75% |
| 14 | 4.6 | 0.20 | 0.40 | 0.08 | 6.75% |
| 15 | 4.8 | 0.25 | 0.40 | 0.10 | 8.44% |
| 16 | 5.1 | 0.30 | 0.30 | 0.09 | 7.59% |
| 17 | 5.4 | 0.30 | 0.20 | 0.06 | 5.06% |
| 18 | 5.7 | 0.30 | 0.20 | 0.06 | 5.06% |
| 19 | 6.0 | 0.30 | 0.20 | 0.06 | 5.06% |
| 20 | 6.3 | 0.30 | 0.20 | 0.06 | 5.06% |
| 21 | 6.6 | 0.30 | 0.15 | 0.05 | 3.80% |
| 22 | 6.9 | 0.25 | 0.10 | 0.03 | 2.11% |
| 23 | 7.1 | 0.10 | 0.00 | 0.00 | 0.00% |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 6.10 | | 1.19 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Garner/Dickinson/Hughes | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Garner/Dickinson/Hughes | Data Input Checked by / Date: | |
| Other: | | | |

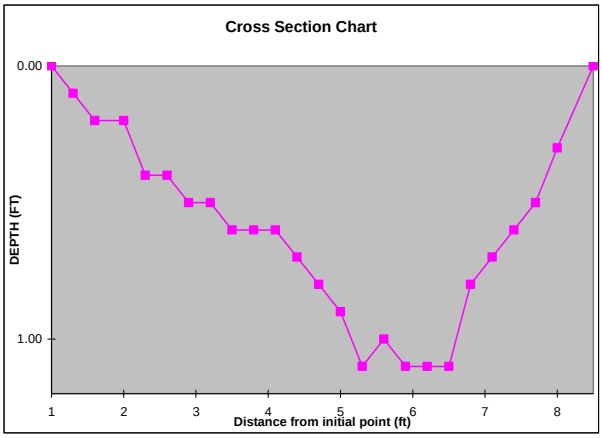
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 4 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** at LA Hwy 34
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** 14.44 ft at 0845hrs.
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 7.50 |
| AREA[2] ($ft^2$): | 4.49 |
| AVG. DEPTH[3](ft): | 0.60 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 1.0 | 0.15 | 0.00 | 0.00 | 0.00% |
| 2 | 1.3 | 0.30 | 0.10 | 0.03 | 0.67% |
| 3 | 1.6 | 0.35 | 0.20 | 0.07 | 1.56% |
| 4 | 2.0 | 0.35 | 0.20 | 0.07 | 1.56% |
| 5 | 2.3 | 0.30 | 0.40 | 0.12 | 2.67% |
| 6 | 2.6 | 0.30 | 0.40 | 0.12 | 2.67% |
| 7 | 2.9 | 0.30 | 0.50 | 0.15 | 3.34% |
| 8 | 3.2 | 0.30 | 0.50 | 0.15 | 3.34% |
| 9 | 3.5 | 0.30 | 0.60 | 0.18 | 4.01% |
| 10 | 3.8 | 0.30 | 0.60 | 0.18 | 4.01% |
| 11 | 4.1 | 0.30 | 0.60 | 0.18 | 4.01% |
| 12 | 4.4 | 0.30 | 0.70 | 0.21 | 4.68% |
| 13 | 4.7 | 0.30 | 0.80 | 0.24 | 5.35% |
| 14 | 5.0 | 0.30 | 0.90 | 0.27 | 6.01% |
| 15 | 5.3 | 0.30 | 1.10 | 0.33 | 7.35% |
| 16 | 5.6 | 0.30 | 1.00 | 0.30 | 6.68% |
| 17 | 5.9 | 0.30 | 1.10 | 0.33 | 7.35% |
| 18 | 6.2 | 0.30 | 1.10 | 0.33 | 7.35% |
| 19 | 6.5 | 0.30 | 1.10 | 0.33 | 7.35% |
| 20 | 6.8 | 0.30 | 0.80 | 0.24 | 5.35% |
| 21 | 7.1 | 0.30 | 0.70 | 0.21 | 4.68% |
| 22 | 7.4 | 0.30 | 0.60 | 0.18 | 4.01% |
| 23 | 7.7 | 0.30 | 0.50 | 0.15 | 3.34% |
| 24 | 8.0 | 0.40 | 0.30 | 0.12 | 2.67% |
| 25 | 8.5 | 0.25 | 0.00 | 0.00 | 0.00% |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 7.50 | | 4.49 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Garner/Dickinson/Hughes | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Garner/Dickinson/Hughes | Data Input Checked by / Date: | |
| Other: | | | |

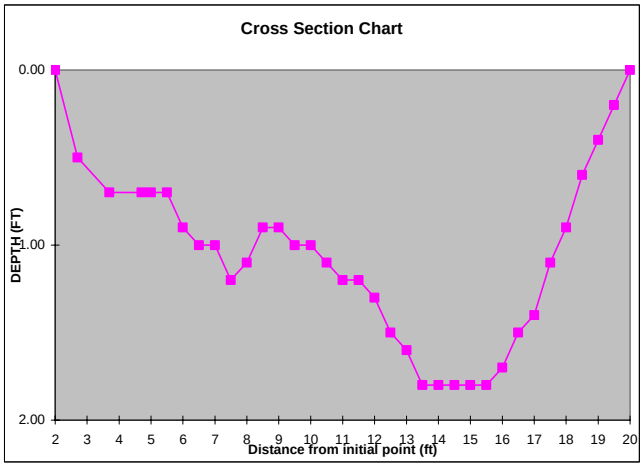
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 5 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** at Harrisonburg Rd.
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** 12.1 ft. at 1130 hrs
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 18.00 |
| AREA[2] (ft$^2$): | 19.06 |
| AVG. DEPTH[3](ft): | 1.06 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 2.0 | 0.35 | 0.00 | 0.00 | 0.00% |
| 2 | 2.7 | 0.85 | 0.50 | 0.43 | 2.23% |
| 3 | 3.7 | 1.00 | 0.70 | 0.70 | 3.67% |
| 4 | 4.7 | 0.65 | 0.70 | 0.46 | 2.39% |
| 5 | 5.0 | 0.40 | 0.70 | 0.28 | 1.47% |
| 6 | 5.5 | 0.50 | 0.70 | 0.35 | 1.84% |
| 7 | 6.0 | 0.50 | 0.90 | 0.45 | 2.36% |
| 8 | 6.5 | 0.50 | 1.00 | 0.50 | 2.62% |
| 9 | 7.0 | 0.50 | 1.00 | 0.50 | 2.62% |
| 10 | 7.5 | 0.50 | 1.20 | 0.60 | 3.15% |
| 11 | 8.0 | 0.50 | 1.10 | 0.55 | 2.89% |
| 12 | 8.5 | 0.50 | 0.90 | 0.45 | 2.36% |
| 13 | 9.0 | 0.50 | 0.90 | 0.45 | 2.36% |
| 14 | 9.5 | 0.50 | 1.00 | 0.50 | 2.62% |
| 15 | 10.0 | 0.50 | 1.00 | 0.50 | 2.62% |
| 16 | 10.5 | 0.50 | 1.10 | 0.55 | 2.89% |
| 17 | 11.0 | 0.50 | 1.20 | 0.60 | 3.15% |
| 18 | 11.5 | 0.50 | 1.20 | 0.60 | 3.15% |
| 19 | 12.0 | 0.50 | 1.30 | 0.65 | 3.41% |
| 20 | 12.5 | 0.50 | 1.50 | 0.75 | 3.93% |
| 21 | 13.0 | 0.50 | 1.60 | 0.80 | 4.20% |
| 22 | 13.5 | 0.50 | 1.80 | 0.90 | 4.72% |
| 23 | 14.0 | 0.50 | 1.80 | 0.90 | 4.72% |
| 24 | 14.5 | 0.50 | 1.80 | 0.90 | 4.72% |
| 25 | 15.0 | 0.50 | 1.80 | 0.90 | 4.72% |
| 26 | 15.5 | 0.50 | 1.80 | 0.90 | 4.72% |
| 27 | 16.0 | 0.50 | 1.70 | 0.85 | 4.46% |
| 28 | 16.5 | 0.50 | 1.50 | 0.75 | 3.93% |
| 29 | 17.0 | 0.50 | 1.40 | 0.70 | 3.67% |
| 30 | 17.5 | 0.50 | 1.10 | 0.55 | 2.89% |
| 31 | 18.0 | 0.50 | 0.90 | 0.45 | 2.36% |
| 32 | 18.5 | 0.50 | 0.60 | 0.30 | 1.57% |
| 33 | 19.0 | 0.50 | 0.40 | 0.20 | 1.05% |
| 34 | 19.5 | 0.50 | 0.20 | 0.10 | 0.52% |
| 35 | 20.0 | 0.25 | 0.00 | 0.00 | 0.00% |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 18.00 | | 19.06 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Boffy/Jones/Savant/Earles | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Boffy/Jones/Savant/Earles | Data Input Checked by / Date: | |
| Other: | | | |

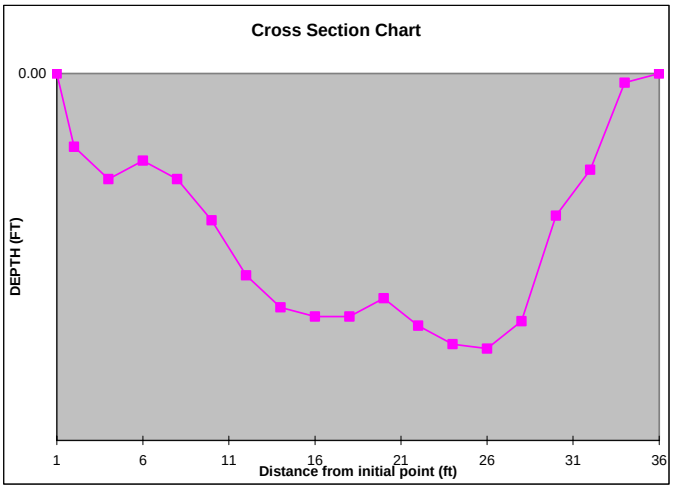
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 6 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** at Buddy Taylor Road
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** 12.1 ft at 1730 hrs
**Guage Height:**
**Date:** 7/28/2004

| | |
|---|---|
| WIDTH[1] (ft): | 35.00 |
| AREA[2] (ft$^2$): | 64.10 |
| AVG. DEPTH[3] (ft): | 1.83 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 1.0 | 0.50 | 0.00 | 0.00 | 0.00% |
| 2 | 2.0 | 1.50 | 0.80 | 1.20 | 1.87% |
| 3 | 4.0 | 2.00 | 1.15 | 2.30 | 3.59% |
| 4 | 6.0 | 2.00 | 0.95 | 1.90 | 2.96% |
| 5 | 8.0 | 2.00 | 1.15 | 2.30 | 3.59% |
| 6 | 10.0 | 2.00 | 1.60 | 3.20 | 4.99% |
| 7 | 12.0 | 2.00 | 2.20 | 4.40 | 6.86% |
| 8 | 14.0 | 2.00 | 2.55 | 5.10 | 7.96% |
| 9 | 16.0 | 2.00 | 2.65 | 5.30 | 8.27% |
| 10 | 18.0 | 2.00 | 2.65 | 5.30 | 8.27% |
| 11 | 20.0 | 2.00 | 2.45 | 4.90 | 7.64% |
| 12 | 22.0 | 2.00 | 2.75 | 5.50 | 8.58% |
| 13 | 24.0 | 2.00 | 2.95 | 5.90 | 9.20% |
| 14 | 26.0 | 2.00 | 3.00 | 6.00 | 9.36% |
| 15 | 28.0 | 2.00 | 2.70 | 5.40 | 8.42% |
| 16 | 30.0 | 2.00 | 1.55 | 3.10 | 4.84% |
| 17 | 32.0 | 2.00 | 1.05 | 2.10 | 3.28% |
| 18 | 34.0 | 2.00 | 0.10 | 0.20 | 0.31% |
| 19 | 36.0 | 1.00 | 0.00 | 0.00 | 0.00% |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 35.00 | | 64.10 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Boffy/Jones/Savant/Earles | Data Inputed by / Date: | Phillippe 08/02/04 |
| Notetaker/Recorder: | Boffy/Jones/Savant/Earles | Data Input Checked by / Date: | |
| Other: | | | |

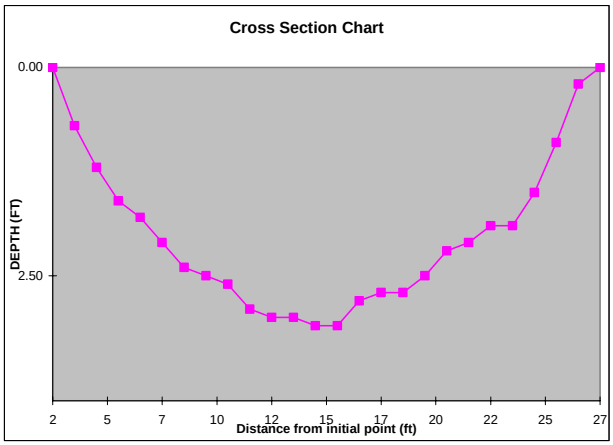
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** IC 8 **Subsegment:** 101303 **Waterbody:** Iatt Creek
**Site Description:** at Nelms Road
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☑ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** 14.90 ft at 0925hrs.
**Guage Height:**
**Date:** 7/14/2004

| | |
|---|---|
| WIDTH[1] (ft): | 25.00 |
| AREA[2] (ft[2]): | 51.40 |
| AVG. DEPTH[3](ft): | 2.06 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 2.0 | 0.50 | 0.00 | 0.00 | 0.00% |
| 2 | 3.0 | 1.00 | 0.70 | 0.70 | 1.36% |
| 3 | 4.0 | 1.00 | 1.20 | 1.20 | 2.33% |
| 4 | 5.0 | 1.00 | 1.60 | 1.60 | 3.11% |
| 5 | 6.0 | 1.00 | 1.80 | 1.80 | 3.50% |
| 6 | 7.0 | 1.00 | 2.10 | 2.10 | 4.09% |
| 7 | 8.0 | 1.00 | 2.40 | 2.40 | 4.67% |
| 8 | 9.0 | 1.00 | 2.50 | 2.50 | 4.86% |
| 9 | 10.0 | 1.00 | 2.60 | 2.60 | 5.06% |
| 10 | 11.0 | 1.00 | 2.90 | 2.90 | 5.64% |
| 11 | 12.0 | 1.00 | 3.00 | 3.00 | 5.84% |
| 12 | 13.0 | 1.00 | 3.00 | 3.00 | 5.84% |
| 13 | 14.0 | 1.00 | 3.10 | 3.10 | 6.03% |
| 14 | 15.0 | 1.00 | 3.10 | 3.10 | 6.03% |
| 15 | 16.0 | 1.00 | 2.80 | 2.80 | 5.45% |
| 16 | 17.0 | 1.00 | 2.70 | 2.70 | 5.25% |
| 17 | 18.0 | 1.00 | 2.70 | 2.70 | 5.25% |
| 18 | 19.0 | 1.00 | 2.50 | 2.50 | 4.86% |
| 19 | 20.0 | 1.00 | 2.20 | 2.20 | 4.28% |
| 20 | 21.0 | 1.00 | 2.10 | 2.10 | 4.09% |
| 21 | 22.0 | 1.00 | 1.90 | 1.90 | 3.70% |
| 22 | 23.0 | 1.00 | 1.90 | 1.90 | 3.70% |
| 23 | 24.0 | 1.00 | 1.50 | 1.50 | 2.92% |
| 24 | 25.0 | 1.00 | 0.90 | 0.90 | 1.75% |
| 25 | 26.0 | 1.00 | 0.20 | 0.20 | 0.39% |
| 26 | 27.0 | 0.50 | 0.00 | 0.00 | 0.00% |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 25.00 | | 51.40 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Phillippe/Richard | Data Inputed by / Date: | Phillippe 07/26/04 |
| Notetaker/Recorder: | Phillippe/Richard | Data Input Checked by / Date: | |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

# Iatt Creek (101303)
# Estimated Flow Measurements

## Wading Measurement

| IC 1 | Distance (feet) | Time (seconds) | Velocity (ft/sec) |
|---|---|---|---|
| Measurement #1: | NA | 40 | 0.21 |
| Measurement #2: | NA | 40 | 0.45 |
| Measurement #3: | NA | 40 | 0.29 |
| | | **Average Velocity:** | **0.32 ft/sec** |
| | | **Cross-sectional Area:** | **0.22 $ft^2$** |
| | | **Estimated Discharge:** | **0.07 $ft^3$/sec** |

## Drogue Measurement

| IC 8 | Distance (feet) | Time (seconds) | Velocity (ft/sec) |
|---|---|---|---|
| Measurement #1: | 30 | 202 | 0.149 |
| Measurement #2: | 30 | 200 | 0.150 |
| Measurement #3: | 30 | 225 | 0.133 |
| | | **Average Velocity:** | **0.14 ft/sec** |
| | | **Cross-sectional Area:** | **51.4 $ft^2$** |
| | | **Estimated Discharge:** | **7.20 * 0.6 = 4.32 $ft^3$/sec** |

# IC 2 Discharge Sheet

<csv>
AquaCalc Pro (tm) by JBS Instruments (c)2002

| | |
|---|---|
| S/N: | 0000006F6ACE |
| Firmware Version: | AQP-1V1.0.12 |
| File Version: | V1.5 |
| Gage ID: | IC 2 D1 071404 |
| User ID: | |
| Meter name: | PYGMY std2 |
| Meter id: | 0-00B |
| Meter type: | PYGMY |
| Meter Standard: | SAE |
| Meter Revs/Pulses: | 1/1 |
| Meter Const.S1: | 0.96 04 |
| Meter Const.O1: | 0.03 12 |
| Meter Const.C1: | 0 |
| Meter Const.S2: | 0 |
| Meter Const.O2: | 0 |
| Meter Const.C1: | 0 |
| Meter Const.S3: | 0 |
| Meter Const.O3: | 0 |
| Beg Time: | 07/14/04 10:57 |
| End Time: | 07/14/04 11:22 |
| Meas Time: | 0.42 |
| Section Diff: | - 0.55 |
| Beg Gage height: | 0 |
| End Gage height: | 0 |
| Beg Staff height: | 0 |
| End Staff height: | 0 |
| Estimated Q: | 1 |
| Adjusted Q: | 0.45 |
| Measure time: | 40 |

| | |
|---|---|
| Measure standard: | SAE |
| Measure equipment: | TopSet Rod |
| Sounding Weight: | NA |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10% |
| Percent Slope: | 0 |
| Measure Start at: | REW |
| Vertical Count: | 24 |
| Section Velocity: | 0.52 |
| Section Width: | 4.7 |
| Section Area: | 0.86 |
| Section Q: | 0.45 |
| Section Diff: | -0.55 |
| Section Pct Err: | -55.00% |
| Section Quality: | na |
| Section WetPerim: | 4.79 |
| Section Hyd Rad: | 0.18 |
| Section Manning: | 0 |
| Section Chezy: | 0 |

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.7 | 0 | 0 | 0 | E | | | | | | 10:57 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 1.9 | 0.1 | 0 | 0.1 | o6 | 46.28 | 8 | 0 | 1 | 1 | 10:59 | 0.2 | 0.2 | 0.2 | 0.02 | 0 | 0.00% | |
| 3 | 2.1 | 0.2 | 0 | 0.2 | o6 | 41.15 | 21 | 0 | 1 | 1 | 11:00 | 0.52 | 0.52 | 0.52 | 0.04 | 0.02 | 4.40% | |
| 4 | 2.3 | 0.2 | 0 | 0.2 | o6 | 41.17 | 23 | 0 | 1 | 1 | 11:01 | 0.57 | 0.57 | 0.57 | 0.04 | 0.02 | 4.40% | |
| 5 | 2.5 | 0.2 | 0 | 0.2 | o6 | 41.54 | 15 | 0 | 1 | 1 | 11:02 | 0.38 | 0.38 | 0.38 | 0.04 | 0.02 | 4.40% | |
| 6 | 2.7 | 0.2 | 0 | 0.2 | o6 | 41.2 | 20 | 0 | 1 | 1 | 11:03 | 0.5 | 0.5 | 0.5 | 0.04 | 0.02 | 4.40% | |
| 7 | 2.9 | 0.2 | 0 | 0.2 | o6 | 40.74 | 23 | 0 | 1 | 1 | 11:04 | 0.57 | 0.57 | 0.57 | 0.04 | 0.02 | 4.40% | |
| 8 | 3.1 | 0.2 | 0 | 0.2 | o6 | 41.98 | 22 | 0 | 1 | 1 | 11:06 | 0.53 | 0.53 | 0.53 | 0.04 | 0.02 | 4.40% | |
| 9 | 3.3 | 0.2 | 0 | 0.2 | o6 | 40.03 | 28 | 0 | 1 | 1 | 11:07 | 0.7 | 0.7 | 0.7 | 0.04 | 0.03 | 6.70% | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 3.5 | 0.2 | 0 | 0.2 | o6 | 40.73 | 24 | 0 | 1 | 1 | 11:09 | 0.6 | 0.6 | 0.6 | 0.04 | 0.02 | 4.40% |
| 11 | 3.7 | 0.2 | 0 | 0.2 | o6 | 41.37 | 26 | 0 | 1 | 1 | 11:10 | 0.63 | 0.63 | 0.63 | 0.04 | 0.03 | 6.70% |
| 12 | 3.9 | 0.2 | 0 | 0.2 | o6 | 40.39 | 29 | 0 | 1 | 1 | 11:10 | 0.72 | 0.72 | 0.72 | 0.04 | 0.03 | 6.70% |
| 13 | 4.1 | 0.2 | 0 | 0.2 | o6 | 40.66 | 25 | 0 | 1 | 1 | 11:12 | 0.62 | 0.62 | 0.62 | 0.04 | 0.02 | 4.40% |
| 14 | 4.3 | 0.2 | 0 | 0.2 | o6 | 40.34 | 31 | 0 | 1 | 1 | 11:13 | 0.77 | 0.77 | 0.77 | 0.04 | 0.03 | 6.70% |
| 15 | 4.5 | 0.2 | 0 | 0.2 | o6 | 40.35 | 24 | 0 | 1 | 1 | 11:14 | 0.6 | 0.6 | 0.6 | 0.04 | 0.02 | 4.40% |
| 16 | 4.7 | 0.2 | 0 | 0.2 | o6 | 41.65 | 12 | 0 | 1 | 1 | 11:15 | 0.31 | 0.31 | 0.31 | 0.04 | 0.01 | 2.20% |
| 17 | 4.9 | 0.2 | 0 | 0.2 | o6 | 41.85 | 18 | 0 | 1 | 1 | 11:16 | 0.44 | 0.44 | 0.44 | 0.04 | 0.02 | 4.40% |
| 18 | 5.1 | 0.2 | 0 | 0.2 | o6 | 40.07 | 16 | 0 | 1 | 1 | 11:17 | 0.41 | 0.41 | 0.41 | 0.04 | 0.02 | 4.40% |
| 19 | 5.3 | 0.2 | 0 | 0.2 | o6 | 40.49 | 17 | 0 | 1 | 1 | 11:18 | 0.43 | 0.43 | 0.43 | 0.04 | 0.02 | 4.40% |
| 20 | 5.5 | 0.2 | 0 | 0.2 | o6 | 41.43 | 16 | 0 | 1 | 1 | 11:19 | 0.4 | 0.4 | 0.4 | 0.04 | 0.02 | 4.40% |
| 21 | 5.7 | 0.2 | 0 | 0.2 | o6 | 40.28 | 15 | 0 | 1 | 1 | 11:20 | 0.39 | 0.39 | 0.39 | 0.04 | 0.02 | 4.40% |
| 22 | 5.9 | 0.2 | 0 | 0.2 | o6 | 41.22 | 19 | 0 | 1 | 1 | 11:21 | 0.47 | 0.47 | 0.47 | 0.04 | 0.02 | 4.40% |
| 23 | 6.1 | 0.15 | 0 | 0.15 | o6 | 41 | 17 | 0 | 1 | 1 | 11:22 | 0.43 | 0.43 | 0.43 | 0.04 | 0.02 | 4.40% |
| 24 | 6.4 | 0 | 0 | 0 | E | | | | | | 11:22 | | | 0 | 0 | 0 | 0.00% |

# IC3 Discharge Sheet

<csv>
AquaCalc Pro (tm) by JBS Instruments (c)2002

S/N: 0000006F6ACE
Firmware Version: AQP-1V1.0.12
File Version: V1.5

Gage ID: IC 3 D1 071404
User ID:
Meter name: PYGMY std2
Meter id: 0-00B
Meter type: PYGMY
Meter Standard: SAE
Meter Revs/Pulses: 1/1
Meter Const.S1: 0.96 04
Meter Const.O1: 0.03 12
Meter Const.C1: 0
Meter Const.S2: 0
Meter Const.O2: 0
Meter Const.C1: 0
Meter Const.S3: 0
Meter Const.O3: 0
Beg Time: 07/14/04 10:03
End Time: 07/14/04 10:27
Meas Time: 0.4
Section Diff: -0.58
Beg Gage height: 0
End Gage height: 0
Beg Staff height: 0
End Staff height: 0
Estimated Q: 1
Adjusted Q: 0.42
Measure time: 40
Measure SAE

| | |
|---|---|
| standard: | |
| Measure equipment: | TopSet Rod |
| Sounding Weight: | NA |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10% |
| Percent Slope: | 0 |
| Measure Start at: | REW |
| Vertical Count: | 23 |
| Section Velocity: | 0.35 |
| Section Width: | 6.1 |
| Section Area: | 1.18 |
| Section Q: | 0.42 |
| Section Diff: | -0.58 |
| Section Pct Err: | -58.00% |
| Section Quality: | na |
| Section WetPerim: | 6.27 |
| Section Hyd Rad: | 0.19 |
| Section Manning: | 0 |
| Section Chezy: | 0 |

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | E | | | | | | 10:03 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 1.3 | 0.05 | 0 | 0.05 | | | | | | | 10:04 | | | 0 | 0.02 | 0 | 0.00% | |
| 3 | 1.6 | 0.2 | 0 | 0.2 | o6 | 41.61 | 9 | 0 | 1 | 1 | 10:05 | 0.24 | 0.24 | 0.24 | 0.06 | 0.01 | 2.40% | |
| 4 | 1.9 | 0.2 | 0 | 0.2 | o6 | 47.36 | 6 | 0 | 1 | 1 | 10:06 | 0.15 | 0.15 | 0.15 | 0.06 | 0.01 | 2.40% | |
| 5 | 2.2 | 0.15 | 0 | 0.15 | o6 | 41.7 | 10 | 0 | 1 | 1 | 10:07 | 0.26 | 0.26 | 0.26 | 0.05 | 0.01 | 2.40% | |
| 6 | 2.5 | 0.1 | 0 | 0.1 | o6 | 40.86 | 10 | 0 | 1 | 1 | 10:09 | 0.27 | 0.27 | 0.27 | 0.03 | 0.01 | 2.40% | |
| 7 | 2.8 | 0.1 | 0 | 0.1 | o6 | 42.11 | 14 | 0 | 1 | 1 | 10:10 | 0.35 | 0.35 | 0.35 | 0.03 | 0.01 | 2.40% | |
| 8 | 3.1 | 0.1 | 0 | 0.1 | o6 | 41.72 | 15 | 0 | 1 | 1 | 10:11 | 0.38 | 0.38 | 0.38 | 0.03 | 0.01 | 2.40% | |
| 9 | 3.4 | 0.2 | 0 | 0.2 | o6 | 40.55 | 16 | 0 | 1 | 1 | 10:12 | 0.41 | 0.41 | 0.41 | 0.06 | 0.02 | 4.80% | |
| 10 | 3.7 | 0.2 | 0 | 0.2 | o6 | 42.95 | 13 | 0 | 1 | 1 | 10:14 | 0.32 | 0.32 | 0.32 | 0.06 | 0.02 | 4.80% | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 4 | 0.3 | 0 | 0.3 | o6 | 40.46 | 22 | 0 | 1 | 1 | 10:15 | 0.55 | 0.55 | 0.55 | 0.07 | 0.04 | 9.50% |
| 12 | 4.2 | 0.3 | 0 | 0.3 | o6 | 40.88 | 20 | 0 | 1 | 1 | 10:16 | 0.5 | 0.5 | 0.5 | 0.06 | 0.03 | 7.10% |
| 13 | 4.4 | 0.4 | 0 | 0.4 | o6 | 40.58 | 12 | 0 | 1 | 1 | 10:17 | 0.32 | 0.32 | 0.32 | 0.08 | 0.03 | 7.10% |
| 14 | 4.6 | 0.4 | 0 | 0.4 | o6 | 42.42 | 15 | 0 | 1 | 1 | 10:18 | 0.37 | 0.37 | 0.37 | 0.08 | 0.03 | 7.10% |
| 15 | 4.8 | 0.4 | 0 | 0.4 | o6 | 40.12 | 18 | 0 | 1 | 1 | 10:19 | 0.46 | 0.46 | 0.46 | 0.1 | 0.05 | 11.90 % |
| 16 | 5.1 | 0.3 | 0 | 0.3 | o6 | 43.63 | 8 | 0 | 1 | 1 | 10:20 | 0.21 | 0.21 | 0.21 | 0.09 | 0.02 | 4.80% |
| 17 | 5.4 | 0.2 | 0 | 0.2 | o6 | 41.46 | 23 | 0 | 1 | 1 | 10:22 | 0.56 | 0.56 | 0.56 | 0.06 | 0.03 | 7.10% |
| 18 | 5.7 | 0.2 | 0 | 0.2 | o6 | 40.56 | 20 | 0 | 1 | 1 | 10:23 | 0.5 | 0.5 | 0.5 | 0.06 | 0.03 | 7.10% |
| 19 | 6 | 0.2 | 0 | 0.2 | o6 | 40.5 | 21 | 0 | 1 | 1 | 10:24 | 0.53 | 0.53 | 0.53 | 0.06 | 0.03 | 7.10% |
| 20 | 6.3 | 0.2 | 0 | 0.2 | o6 | 42.37 | 12 | 0 | 1 | 1 | 10:25 | 0.3 | 0.3 | 0.3 | 0.06 | 0.02 | 4.80% |
| 21 | 6.6 | 0.15 | 0 | 0.15 | o6 | 40.8 | 10 | 0 | 1 | 1 | 10:27 | 0.27 | 0.27 | 0.27 | 0.04 | 0.01 | 2.40% |
| 22 | 6.9 | 0.1 | 0 | 0.1 | | | | | | | 10:27 | | | 0 | 0.03 | 0 | 0.00% |
| 23 | 7.1 | 0 | 0 | 0 | E | | | | | | 10:27 | | | 0 | 0 | 0 | 0.00% |

## IC4 Discharge Sheet

<csv>
AquaCalc Pro (tm) by JBS Instruments (c)2002

S/N: 0000006F6ACE
Firmware Version: AQP-1V1.0.12
File Version: V1.5

Gage ID: IC 4 D1 071404
User ID:
Meter name: PYGMY std2
Meter id: 0-00B
Meter type: PYGMY
Meter Standard: SAE
Meter Revs/Pulses: 1/1
Meter Const.S1: 0.96 04
Meter Const.O1: 0.03 12
Meter Const.C1: 0
Meter Const.S2: 0
Meter Const.O2: 0
Meter Const.C1: 0
Meter Const.S3: 0

| | |
|---|---|
| Const.O3: | |
| Beg Time: | 07/14/04 07:15 |
| End Time: | 07/14/04 07:43 |
| Meas Time: | 0.47 |
| Section Diff: | -1.92 |
| Beg Gage height: | 0 |
| End Gage height: | 0 |
| Beg Staff height: | 0 |
| End Staff height: | 0 |
| Estimated Q: | 3 |
| Adjusted Q: | 1.08 |
| Measure time: | 40 |
| Measure standard: | SAE |
| Measure equipment: | TopSet Rod |
| Sounding Weight: | NA |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10% |
| Percent Slope: | 0 |
| Measure Start at: | REW |
| Vertical Count: | 25 |
| Section Velocity: | 0.24 |
| Section Width: | 7.5 |
| Section Area: | 4.49 |
| Section Q: | 1.08 |
| Section Diff: | -1.92 |
| Section Pct Err: | -64.00% |
| Section Quality: | na |
| Section WetPerim: | 8.08 |
| Section Hyd Rad: | 0.56 |
| Section Manning: | 0 |

Section Chezy: 0

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | E | | | | | | 7:15 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 1.3 | 0.1 | 0 | 0.1 | | | | | | | 7:15 | | | 0 | 0.03 | 0 | 0.00% | |
| 3 | 1.6 | 0.2 | 0 | 0.2 | | | | | | | 7:16 | | | 0 | 0.07 | 0 | 0.00% | |
| 4 | 2 | 0.2 | 0 | 0.2 | | | | | | | 7:17 | | | 0 | 0.07 | 0 | 0.00% | |
| 5 | 2.3 | 0.4 | 0 | 0.4 | o6 | 41.12 | 7 | 0 | 1 | 1 | 7:19 | 0.19 | 0.19 | 0.19 | 0.12 | 0.02 | 1.90% | |
| 6 | 2.6 | 0.4 | 0 | 0.4 | o6 | 43.26 | 9 | 0 | 1 | 1 | 7:20 | 0.23 | 0.23 | 0.23 | 0.12 | 0.03 | 2.80% | |
| 7 | 2.9 | 0.5 | 0 | 0.5 | o6 | 43.95 | 8 | 0 | 1 | 1 | 7:22 | 0.21 | 0.21 | 0.21 | 0.15 | 0.03 | 2.80% | |
| 8 | 3.2 | 0.5 | 0 | 0.5 | o6 | 43.62 | 8 | 0 | 1 | 1 | 7:23 | 0.21 | 0.21 | 0.21 | 0.15 | 0.03 | 2.80% | |
| 9 | 3.5 | 0.6 | 0 | 0.6 | o6 | 40.24 | 12 | 0 | 1 | 1 | 7:24 | 0.32 | 0.32 | 0.32 | 0.18 | 0.06 | 5.60% | |
| 10 | 3.8 | 0.6 | 0 | 0.6 | o6 | 42.53 | 15 | 0 | 1 | 1 | 7:25 | 0.37 | 0.37 | 0.37 | 0.18 | 0.07 | 6.50% | |
| 11 | 4.1 | 0.6 | 0 | 0.6 | o6 | 43.18 | 14 | 0 | 1 | 1 | 7:27 | 0.34 | 0.34 | 0.34 | 0.18 | 0.06 | 5.60% | |
| 12 | 4.4 | 0.7 | 0 | 0.7 | o6 | 42.15 | 13 | 0 | 1 | 1 | 7:28 | 0.33 | 0.33 | 0.33 | 0.21 | 0.07 | 6.50% | |
| 13 | 4.7 | 0.8 | 0 | 0.8 | o6 | 42.54 | 10 | 0 | 1 | 1 | 7:29 | 0.26 | 0.26 | 0.26 | 0.24 | 0.06 | 5.60% | |
| 14 | 5 | 0.9 | 0 | 0.9 | o6 | 40.72 | 10 | 0 | 1 | 1 | 7:31 | 0.27 | 0.27 | 0.27 | 0.27 | 0.07 | 6.50% | |
| 15 | 5.3 | 1.1 | 0 | 1.1 | o6 | 41.52 | 11 | 0 | 1 | 1 | 7:32 | 0.29 | 0.29 | 0.29 | 0.33 | 0.09 | 8.30% | |
| 16 | 5.6 | 1 | 0 | 1 | o6 | 42.21 | 9 | 0 | 1 | 1 | 7:33 | 0.24 | 0.24 | 0.24 | 0.3 | 0.07 | 6.50% | |
| 17 | 5.9 | 1.1 | 0 | 1.1 | o6 | 44.38 | 10 | 0 | 1 | 1 | 7:34 | 0.25 | 0.25 | 0.25 | 0.33 | 0.08 | 7.40% | |
| 18 | 6.2 | 1.1 | 0 | 1.1 | o6 | 41.55 | 9 | 0 | 1 | 1 | 7:35 | 0.24 | 0.24 | 0.24 | 0.33 | 0.08 | 7.40% | |
| 19 | 6.5 | 1.1 | 0 | 1.1 | o6 | 41.72 | 8 | 0 | 1 | 1 | 7:37 | 0.22 | 0.22 | 0.22 | 0.33 | 0.07 | 6.50% | |
| 20 | 6.8 | 0.8 | 0 | 0.8 | o6 | 41.68 | 11 | 0 | 1 | 1 | 7:38 | 0.28 | 0.28 | 0.28 | 0.24 | 0.07 | 6.50% | |
| 21 | 7.1 | 0.7 | 0 | 0.7 | o6 | 42.32 | 12 | 0 | 1 | 1 | 7:39 | 0.3 | 0.3 | 0.3 | 0.21 | 0.06 | 5.60% | |
| 22 | 7.4 | 0.6 | 0 | 0.6 | o6 | 46.85 | 8 | 0 | 1 | 1 | 7:41 | 0.2 | 0.2 | 0.2 | 0.18 | 0.04 | 3.70% | |
| 23 | 7.7 | 0.5 | 0 | 0.5 | o6 | 41.49 | 3 | 0 | 1 | 1 | 7:42 | 0.1 | 0.1 | 0.1 | 0.15 | 0.02 | 1.90% | |
| 24 | 8 | 0.3 | 0 | 0.3 | | | | | | | 7:42 | | | 0 | 0.12 | 0 | 0.00% | |
| 25 | 8.5 | 0 | 0 | 0 | E | | | | | | 7:43 | | | 0 | 0 | 0 | 0.00% | |

## IC5 Discharge Sheet

<csv>
AquaCalc Pro (tm) by JBS Instruments (c)2002

S/N: 0000006F6330
Firmware Version: AQP-1V1.0.5
File Version: V1.3

Gage ID: IC5 D1
User ID:
Meter name: PYGMY std2
Meter id: 0-00B
Meter PYGMY

| | |
|---|---|
| type: | |
| Meter Standard: | SAE |
| Meter Revs/Pulses: | 1/1 |
| Meter Const.S1: | 0.96 |
| Meter Const.O1: | 0.031 |
| Meter Const.C1: | 0 |
| Meter Const.S2: | 0 |
| Meter Const.O2: | 0 |
| Meter Const.C1: | 0 |
| Meter Const.S3: | 0 |
| Meter Const.O3: | 0 |
| Beg Time: | 07/14/04 12:06 |
| End Time: | 07/14/04 12:54 |
| Beg Gage height: | 0 |
| End Gage height: | 0 |
| Beg Staff height: | 0 |
| End Staff height: | 0 |
| Estimated Q: | 0 |
| Adjusted Q: | 0 |
| Measure time: | 40 |
| Measure standard: | SAE |
| Measure equipment: | TopSet Rod |
| Sounding Weight: | NA |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10 |
| Percent Slope: | 0 |
| Measure Start at: | REW |

| | |
|---|---|
| Vertical Count: | 35 |
| Section Velocity: | 0.17 |
| Section Width: | 18 |
| Section Area: | 19.06 |
| Section Q: | 3.3 |
| Section Diff: | 3.3 |
| Section Pct Err: | 0.0 0% |
| Section Quality: | na |
| Section WetPerim: | 18.82 |
| Section Hyd Rad: | 1.01 |
| Section Manning: | 0 |
| Section Chezy: | 0 |

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 0 | 0 | 0 | E | | | | | | 12:06 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 2.7 | 0.5 | 0 | 0.5 | o6 | 40 | 0 | 0 | 1 | 1 | 12:09 | 0 | 0 | 0 | 0.4 | 0 | 0.00% | |
| 3 | 3.7 | 0.7 | 0 | 0.7 | o6 | 40 | 0 | 0 | 1 | 1 | 12:12 | 0 | 0 | 0 | 0.7 | 0 | 0.00% | |
| 4 | 4.7 | 0.7 | 0 | 0.7 | o6 | 40.36 | 4 | 0 | 1 | 1 | 12:13 | 0.13 | 0.13 | 0.13 | 0.5 | 0.06 | 1.70% | |
| 5 | 5 | 0.7 | 0 | 0.7 | o6 | 48.33 | 5 | 0 | 1 | 1 | 12:15 | 0.13 | 0.13 | 0.13 | 0.3 | 0.04 | 1.10% | |
| 6 | 5.5 | 0.7 | 0 | 0.7 | o6 | 40.38 | 4 | 0 | 1 | 1 | 12:16 | 0.13 | 0.13 | 0.13 | 0.4 | 0.04 | 1.30% | |
| 7 | 6 | 0.9 | 0 | 0.9 | o6 | 47.42 | 6 | 0 | 1 | 1 | 12:18 | 0.15 | 0.15 | 0.15 | 0.5 | 0.07 | 2.10% | |
| 8 | 6.5 | 1 | 0 | 1 | o6 | 45.15 | 5 | 0 | 1 | 1 | 12:19 | 0.14 | 0.14 | 0.14 | 0.5 | 0.07 | 2.10% | |
| 9 | 7 | 1 | 0 | 1 | o6 | 48.84 | 5 | 0 | 1 | 1 | 12:20 | 0.13 | 0.13 | 0.13 | 0.5 | 0.06 | 2.00% | |
| 10 | 7.5 | 1.2 | 0 | 1.2 | o6 | 46.16 | 5 | 0 | 1 | 1 | 12:22 | 0.14 | 0.14 | 0.14 | 0.6 | 0.08 | 2.50% | |
| 11 | 8 | 1.1 | 0 | 1.1 | o6 | 41.18 | 4 | 0 | 1 | 1 | 12:24 | 0.12 | 0.12 | 0.12 | 0.6 | 0.07 | 2.10% | |
| 12 | 8.5 | 0.9 | 0 | 0.9 | o6 | 47.9 | 4 | 0 | 1 | 1 | 12:25 | 0.11 | 0.11 | 0.11 | 0.5 | 0.05 | 1.50% | |
| 13 | 9 | 0.9 | 0 | 0.9 | o6 | 48.88 | 3 | 0 | 1 | 1 | 12:26 | 0.09 | 0.09 | 0.09 | 0.5 | 0.04 | 1.20% | |
| 14 | 9.5 | 1 | 0 | 1 | o6 | 49.93 | 6 | 0 | 1 | 1 | 12:27 | 0.15 | 0.15 | 0.15 | 0.5 | 0.07 | 2.20% | |
| 15 | 10 | 1 | 0 | 1 | o6 | 50.35 | 4 | 0 | 1 | 1 | 12:29 | 0.11 | 0.11 | 0.11 | 0.5 | 0.05 | 1.60% | |
| 16 | 10.5 | 1.1 | 0 | 1.1 | o6 | 43.46 | 5 | 0 | 1 | 1 | 12:30 | 0.14 | 0.14 | 0.14 | 0.6 | 0.08 | 2.40% | |
| 17 | 11 | 1.2 | 0 | 1.2 | o6 | 41.48 | 9 | 0 | 1 | 1 | 12:31 | 0.24 | 0.24 | 0.24 | 0.6 | 0.14 | 4.40% | |
| 18 | 11.5 | 1.2 | 0 | 1.2 | o6 | 42.73 | 11 | 0 | 1 | 1 | 12:32 | 0.28 | 0.28 | 0.28 | 0.6 | 0.17 | 5.10% | |
| 19 | 12 | 1.3 | 0 | 1.3 | o6 | 42.86 | 12 | 0 | 1 | 1 | 12:33 | 0.3 | 0.3 | 0.3 | 0.7 | 0.2 | 5.90% | |
| 20 | 12.5 | 1.5 | 0 | 1.5 | o6 | 40.01 | 11 | 0 | 1 | 1 | 12:34 | 0.3 | 0.3 | 0.3 | 0.8 | 0.22 | 6.70% | |
| 21 | 13 | 1.6 | 0 | 1.6 | o6 | 40.25 | 10 | 0 | 1 | 1 | 12:36 | 0.27 | 0.27 | 0.27 | 0.8 | 0.22 | 6.50% | |
| 22 | 13.5 | 1.8 | 0 | 1.8 | o6 | 43.35 | 12 | 0 | 1 | 1 | 12:37 | 0.3 | 0.3 | 0.3 | 0.9 | 0.27 | 8.10% | |
| 23 | 14 | 1.8 | 0 | 1.8 | o6 | 41.19 | 10 | 0 | 1 | 1 | 12:39 | 0.26 | 0.26 | 0.26 | 0.9 | 0.24 | 7.20% | |
| 24 | 14.5 | 1.8 | 0 | 1.8 | o6 | 44.52 | 7 | 0 | 1 | 1 | 12:40 | 0.18 | 0.18 | 0.18 | 0.9 | 0.16 | 5.00% | |
| 25 | 15 | 1.8 | 0 | 1.8 | o6 | 43.61 | 7 | 0 | 1 | 1 | 12:41 | 0.19 | 0.19 | 0.19 | 0.9 | 0.17 | 5.10% | |
| 26 | 15.5 | 1.8 | 0 | 1.8 | o6 | 40.68 | 5 | 0 | 1 | 1 | 12:42 | 0.15 | 0.15 | 0.15 | 0.9 | 0.13 | 4.10% | |
| 27 | 16 | 1.7 | 0 | 1.7 | o6 | 45.29 | 6 | 0 | 1 | 1 | 12:43 | 0.16 | 0.16 | 0.16 | 0.9 | 0.13 | 4.10% | |
| 28 | 16.5 | 1.5 | 0 | 1.5 | o6 | 45.5 | 7 | 0 | 1 | 1 | 12:45 | 0.18 | 0.18 | 0.18 | 0.8 | 0.13 | 4.10% | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29 | 17 | 1.4 | 0 | 1.4 | o6 | 40.01 | 8 | 0 | 1 | 1 | 12:46 | 0.22 | 0.22 | 0.22 | 0.7 | 0.16 | 4.70% |
| 30 | 17.5 | 1.1 | 0 | 1.1 | o6 | 40.12 | 6 | 0 | 1 | 1 | 12:47 | 0.17 | 0.17 | 0.17 | 0.6 | 0.1 | 2.90% |
| 31 | 18 | 0.9 | 0 | 0.9 | o6 | 43.4 | 3 | 0 | 1 | 1 | 12:49 | 0.1 | 0.1 | 0.1 | 0.5 | 0.04 | 1.30% |
| 32 | 18.5 | 0.6 | 0 | 0.6 | o6 | 41.93 | 2 | 0 | 1 | 1 | 12:50 | 0.08 | 0.08 | 0.08 | 0.3 | 0.02 | 0.70% |
| 33 | 19 | 0.4 | 0 | 0.4 | o6 | 58.66 | 2 | 0 | 1 | 1 | 12:52 | 0.06 | 0.06 | 0.06 | 0.2 | 0.01 | 0.40% |
| 34 | 19.5 | 0.2 | 0 | 0.2 | o6 | 40 | 0 | 0 | 1 | 1 | 12:53 | 0 | 0 | 0 | 0.1 | 0 | 0.00% |
| 35 | 20 | 0 | 0 | 0 | E | | | | | | 12:54 | | | 0 | 0 | 0 | 0.00% |

## CRC1 Discharge Sheet

<csv>
AquaCalc Pro (tm) by JBS Instruments (c)2002

S/N: 0000006F6330
Firmware Version: AQP-1V1.0.5
File Version: V1.3

Gage ID: CRC 1
User ID:
Meter name: PYGMY std2
Meter id: 0-00B
Meter type: PYGMY
Meter Standard: SAE
Meter Revs/Pulses: 1/1
Meter Const.S1: 0.9
Meter Const.O1: 604
Meter Const.C1: 0.0
Meter Const.S2: 312
Meter Const.O2: 0
Meter Const.C1: 0
Meter Const.S3: 0
Meter Const.O3: 0
Beg Time: 07/14/04 10:18
End Time: 07/14/04 10:56
Beg Gage 0

| | |
|---|---|
| height: | |
| End Gage height: | 0 |
| Beg Staff height: | 0 |
| End Staff height: | 0 |
| Estimated Q: | 0 |
| Adjusted Q: | 0 |
| Measure time: | 40 |
| Measure standard: | SAE |
| Measure equipment: | TopSet Rod |
| Sounding Weight: | NA |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10 |
| Percent Slope: | 0 |
| Measure Start at: | REW |
| Vertical Count: | 37 |
| Section Velocity: | 0.65 |
| Section Width: | 8.4 |
| Section Area: | 1.97 |
| Section Q: | 1.29 |
| Section Diff: | 1.29 |
| Section Pct Err: | 0.0% |
| Section Quality: | na |
| Section WetPerim: | 8.79 |
| Section Hyd Rad: | 0.22 |
| Section Manning: | 0 |
| Section Chezy: | 0 |

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 0 | 0 | 0 | E | | | | | | 10:18 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 3.3 | 0.05 | 0 | 0.05 | | | | | | | | | | 0 | 0 | 0 | 0.00% | |
| 3 | 3.6 | 0.05 | 0 | 0.05 | | | | | | | | | | 0 | 0 | 0 | 0.00% | |
| 4 | 4 | 0.05 | 0 | 0.05 | | | | | | | | | | 0 | 0 | 0 | 0.00% | |
| 5 | 4.5 | 0.05 | 0 | 0.05 | | | | | | | | | | 0 | 0 | 0 | 0.00% | |
| 6 | 5 | 0.15 | 0 | 0.15 | | | | | | | | | | 0 | 0.1 | 0 | 0.00% | |
| 7 | 5.3 | 0.15 | 0 | 0.15 | o6 | 40 | 0 | 0 | 1 | 1 | 10:22 | 0 | 0 | 0 | 0 | 0 | 0.00% | |
| 8 | 5.5 | 0.15 | 0 | 0.15 | o6 | 50.65 | 3 | 0 | 1 | 1 | 10:24 | 0.09 | 0.09 | 0.09 | 0 | 0 | 0.20% | |
| 9 | 5.7 | 0.18 | 0 | 0.18 | o6 | 42.34 | 3 | 0 | 1 | 1 | 10:25 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0.30% | |
| 10 | 5.9 | 0.2 | 0 | 0.2 | o6 | 49.54 | 5 | 0 | 1 | 1 | 10:27 | 0.13 | 0.13 | 0.13 | 0 | 0.01 | 0.50% | |
| 11 | 6.16 | 0 | 0 | 0 | o6 | 41.48 | 7 | 0 | 1 | 1 | 10:28 | 0.19 | 0.19 | 0.19 | 0 | 0 | 0.00% | |
| 12 | 6.4 | 0.2 | 0 | 0.2 | o6 | 40.51 | 11 | 0 | 1 | 1 | 10:29 | 0.29 | 0.29 | 0.29 | 0 | 0.01 | 1.00% | |
| 13 | 6.6 | 0.2 | 0 | 0.2 | o6 | 40.92 | 15 | 0 | 1 | 1 | 10:30 | 0.38 | 0.38 | 0.38 | 0 | 0.02 | 1.20% | |
| 14 | 6.8 | 0.21 | 0 | 0.21 | o6 | 41.36 | 20 | 0 | 1 | 1 | 10:32 | 0.5 | 0.5 | 0.5 | 0 | 0.02 | 1.60% | |
| 15 | 7 | 0.21 | 0 | 0.21 | o6 | 40.19 | 22 | 0 | 1 | 1 | 10:33 | 0.56 | 0.56 | 0.56 | 0 | 0.02 | 1.80% | |
| 16 | 7.2 | 0.22 | 0 | 0.22 | o6 | 40.5 | 24 | 0 | 1 | 1 | 10:34 | 0.6 | 0.6 | 0.6 | 0 | 0.03 | 2.10% | |
| 17 | 7.4 | 0.28 | 0 | 0.28 | o6 | 40.62 | 26 | 0 | 1 | 1 | 10:35 | 0.65 | 0.65 | 0.65 | 0.1 | 0.04 | 2.80% | |
| 18 | 7.6 | 0.3 | 0 | 0.3 | o6 | 40.41 | 45 | 0 | 1 | 1 | 10:36 | 1.1 | 1.1 | 1.1 | 0.1 | 0.07 | 5.10% | |
| 19 | 7.8 | 0.35 | 0 | 0.35 | o6 | 40.56 | 46 | 0 | 1 | 1 | 10:37 | 1.12 | 1.12 | 1.12 | 0.1 | 0.08 | 6.10% | |
| 20 | 8 | 0.38 | 0 | 0.38 | o6 | 40.37 | 46 | 0 | 1 | 1 | 10:38 | 1.13 | 1.13 | 1.13 | 0.1 | 0.09 | 6.60% | |
| 21 | 8.2 | 0.4 | 0 | 0.4 | o6 | 40.72 | 54 | 0 | 1 | 1 | 10:39 | 1.3 | 1.3 | 1.3 | 0.1 | 0.1 | 8.10% | |
| 22 | 8.4 | 0.4 | 0 | 0.4 | o6 | 40.55 | 63 | 0 | 1 | 1 | 10:40 | 1.52 | 1.52 | 1.52 | 0.1 | 0.12 | 9.50% | |
| 23 | 8.6 | 0.4 | 0 | 0.4 | o6 | 40.3 | 50 | 0 | 1 | 1 | 10:41 | 1.22 | 1.22 | 1.22 | 0.1 | 0.1 | 7.60% | |
| 24 | 8.8 | 0.4 | 0 | 0.4 | o6 | 40.3 | 55 | 0 | 1 | 1 | 10:42 | 1.34 | 1.34 | 1.34 | 0.1 | 0.11 | 8.30% | |
| 25 | 9 | 0.4 | 0 | 0.4 | o6 | 40.03 | 61 | 0 | 1 | 1 | 10:43 | 1.49 | 1.49 | 1.49 | 0.1 | 0.12 | 9.30% | |
| 26 | 9.2 | 0.38 | 0 | 0.38 | o6 | 40.68 | 47 | 0 | 1 | 1 | 10:44 | 1.14 | 1.14 | 1.14 | 0.1 | 0.09 | 6.70% | |
| 27 | 9.4 | 0.33 | 0 | 0.33 | o6 | 40.59 | 45 | 0 | 1 | 1 | 10:45 | 1.1 | 1.1 | 1.1 | 0.1 | 0.07 | 5.60% | |
| 28 | 9.6 | 0.32 | 0 | 0.32 | o6 | 40.4 | 35 | 0 | 1 | 1 | 10:46 | 0.86 | 0.86 | 0.86 | 0.1 | 0.06 | 4.30% | |
| 29 | 9.8 | 0.32 | 0 | 0.32 | o6 | 40.08 | 24 | 0 | 1 | 1 | 10:47 | 0.61 | 0.61 | 0.61 | 0.1 | 0.04 | 3.00% | |
| 30 | 10 | 0.31 | 0 | 0.31 | o6 | 43.4 | 10 | 0 | 1 | 1 | 10:48 | 0.2 | 0.25 | 0.25 | 0.1 | 0.0 | 1.20% | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 10.2 | 0.4 | 0 | 0.4 | o6 | 2<br>41.18 | 7 | 0 | 1 | 1 | 10:49 | 5<br>0.19 | 0.19 | 0.19 | 0.1 | 2<br>0.02 | 1.20% |
| 32 | 10.4 | 0.45 | 0 | 0.45 | o6 | 44.43 | 9 | 0 | 1 | 1 | 10:50 | 0.23 | 0.23 | 0.23 | 0.1 | 2<br>0.02 | 1.60% |
| 33 | 10.6 | 0.45 | 0 | 0.45 | o6 | 40.08 | 7 | 0 | 1 | 1 | 10:52 | 3<br>0.2 | 0.2 | 0.2 | 0.1 | 2<br>0.02 | 1.40% |
| 34 | 10.8 | 0.4 | 0 | 0.4 | o6 | 45.89 | 8 | 0 | 1 | 1 | 10:53 | 0.2 | 0.2 | 0.2 | 0.1 | 2<br>0.02 | 1.20% |
| 35 | 11 | 0.38 | 0 | 0.38 | o6 | 40.14 | 5 | 0 | 1 | 1 | 10:54 | 0.15 | 0.15 | 0.15 | 0.1 | 2<br>0.01 | 0.90% |
| 36 | 11.2 | 0.3 | 0 | 0.3 | o6 | 45.71 | 6 | 0 | 1 | 1 | 10:56 | 0.16 | 0.16 | 0.16 | 0.1 | 1<br>0.01 | 0.70% |
| 37 | 11.4 | 0 | 0 | 0 | E | | | | | | 10:56 | | 0 | 0 | 0 | | 0.00% |

## RLC1 Discharge Sheet

| | |
|---|---|
| Meter Const.O1: | 0.03 12 |
| Meter Const.C1: | 0 |
| Meter Const.S2: | 0 |
| Meter Const.O2: | 0 |
| Meter Const.C1: | 0 |
| Meter Const.S3: | 0 |
| Meter Const.O3: | 0 |
| Beg Time: | 07/14/04 08:08 |
| End Time: | 07/14/04 08:35 |
| Meas Time: | 0.45 |
| Section Diff: | -0.34 |
| Beg Gage height: | 0 |
| End Gage height: | 0 |
| Beg Staff height: | 0 |
| End Staff height: | 0 |
| Estimated Q: | 1 |
| Adjusted Q: | 0.66 |
| Measure time: | 40 |
| Measure standard: | SAE |
| Measure equipment: | TopSet Rod |
| Sounding | NA |

| | |
|---|---|
| Weight: | |
| Measure ice: | No |
| Flood Measurement: | No |
| Flood Coef: | 0 |
| Max Vertical Q: | 10% |
| Percent Slope: | 0 |
| Measure Start at: | REW |
| Vertical Count: | 22 |
| Section Velocity: | 0.43 |
| Section Width: | 6.4 |
| Section Area: | 1.55 |
| Section Q: | 0.66 |
| Section Diff: | -0.34 |
| Section Pct Err: | -34.00% |
| Section Quality: | na |
| Section WetPerim: | 6.55 |
| Section Hyd Rad: | 0.24 |
| Section Manning: | 0 |
| Section Chezy: | 0 |

| VERT | DIST | TDPTH | IDRFT | EDPTH | OBS | TIME | REVS | HA | HC:VF | METH | CLOCK | MVEL | OVEL | VVEL | SSAREA | SSQ | SSPCT | FLAGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 0 | 0 | 0 | E | | | | | | 8:08 | | | 0 | 0 | 0 | 0.00% | |
| 2 | 2.3 | 0.2 | 0 | 0.2 | o6 | 41.09 | 3 | 0 | 1 | 1 | 8:10 | 0.1 | 0.1 | 0.1 | 0.06 | 0.01 | 1.50% | |
| 3 | 2.6 | 0.3 | 0 | 0.3 | o6 | 43.42 | 5 | 0 | 1 | 1 | 8:12 | 0.14 | 0.14 | 0.14 | 0.09 | 0.01 | 1.50% | |
| 4 | 2.9 | 0.4 | 0 | 0.4 | o6 | 42.31 | 17 | 0 | 1 | 1 | 8:13 | 0.42 | 0.42 | 0.42 | 0.12 | 0.05 | 7.60% | |
| 5 | 3.2 | 0.4 | 0 | 0.4 | o6 | 40.33 | 17 | 0 | 1 | 1 | 8:14 | 0.44 | 0.44 | 0.44 | 0.12 | 0.05 | 7.60% | |
| 6 | 3.5 | 0.4 | 0 | 0.4 | o6 | 41.4 | 14 | 0 | 1 | 1 | 8:16 | 0.36 | 0.36 | 0.36 | 0.12 | 0.04 | 6.10% | |
| 7 | 3.8 | 0.3 | 0 | 0.3 | o6 | 41.79 | 20 | 0 | 1 | 1 | 8:17 | 0.49 | 0.49 | 0.49 | 0.09 | 0.04 | 6.10% | |
| 8 | 4.1 | 0.3 | 0 | 0.3 | o6 | 41.35 | 19 | 0 | 1 | 1 | 8:18 | 0.47 | 0.47 | 0.47 | 0.09 | 0.04 | 6.10% | |
| 9 | 4.4 | 0.3 | 0 | 0.3 | o6 | 41.4 | 23 | 0 | 1 | 1 | 8:19 | 0.56 | 0.56 | 0.56 | 0.09 | 0.05 | 7.60% | |
| 10 | 4.7 | 0.3 | 0 | 0.3 | o6 | 41.8 | 19 | 0 | 1 | 1 | 8:20 | 0.47 | 0.47 | 0.47 | 0.09 | 0.04 | 6.10% | |
| 11 | 5 | 0.3 | 0 | 0.3 | o6 | 41.31 | 22 | 0 | 1 | 1 | 8:21 | 0.54 | 0.54 | 0.54 | 0.09 | 0.05 | 7.60% | |
| 12 | 5.3 | 0.3 | 0 | 0.3 | o6 | 40.96 | 22 | 0 | 1 | 1 | 8:22 | 0.55 | 0.55 | 0.55 | 0.09 | 0.05 | 7.60% | |
| 13 | 5.6 | 0.2 | 0 | 0.2 | o6 | 41.85 | 22 | 0 | 1 | 1 | 8:24 | 0.54 | 0.54 | 0.54 | 0.06 | 0.03 | 4.50% | |
| 14 | 5.9 | 0.2 | 0 | 0.2 | o6 | 41.81 | 19 | 0 | 1 | 1 | 8:25 | 0.47 | 0.47 | 0.47 | 0.06 | 0.03 | 4.50% | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 6.2 | 0.2 | 0 | 0.2 | o6 | 40.79 | 20 | 0 | 1 | 1 | 8:26 | 0.5 | 0.5 | 0.5 | 0.06 | 0.03 | 4.50% |
| 16 | 6.5 | 0.2 | 0 | 0.2 | o6 | 41.94 | 21 | 0 | 1 | 1 | 8:27 | 0.51 | 0.51 | 0.51 | 0.06 | 0.03 | 4.50% |
| 17 | 6.8 | 0.2 | 0 | 0.2 | o6 | 40.34 | 20 | 0 | 1 | 1 | 8:28 | 0.51 | 0.51 | 0.51 | 0.06 | 0.03 | 4.50% |
| 18 | 7.1 | 0.2 | 0 | 0.2 | o6 | 41.84 | 19 | 0 | 1 | 1 | 8:29 | 0.47 | 0.47 | 0.47 | 0.06 | 0.03 | 4.50% |
| 19 | 7.4 | 0.2 | 0 | 0.2 | o6 | 41.45 | 15 | 0 | 1 | 1 | 8:30 | 0.38 | 0.38 | 0.38 | 0.06 | 0.02 | 3.00% |
| 20 | 7.7 | 0.1 | 0 | 0.15 | o6 | 41.49 | 13 | 0 | 1 | 1 | 8:32 | 0.33 | 0.33 | 0.33 | 0.04 | 0.01 | 1.50% |
| | | 5 | | | | | | | | | | | | | | | |
| 21 | 8 | 0.1 | 0 | 0.1 | o6 | 40.08 | 17 | 0 | 1 | 1 | 8:35 | 0.44 | 0.44 | 0.44 | 0.03 | 0.02 | 3.00% |
| 22 | 8.4 | 0 | 0 | 0 | E | | | | | | 8:35 | | | 0 | 0 | 0 | 0.00% |

# Appendix F3 – Field Notes

# Iatt Creek TMDL Survey
# Final Report

## General

The Watershed Surveys group conducted this survey from July 13-15, 2004. The subsegment 101303 (Iatt Creek, Headwaters to Iatt Lake) is located in the Red River Basin. The main stem of Iatt Creek flows generally south-southeast, from behind the Winn Correctional Center, south of U.S. Hwy 84, to its confluence with Iatt Lake.

The upper half of the subsegment (from headwaters to IC 6) is mostly made up of hilly, pine forests with sandy, clay soils. The land in this area is used primarily for forestry, with some used for pasture.

The lower half of the subsegment (form IC 6 to Iatt Lake) differs from the upper half in several ways. The overall slope of the surrounding landscape is shallower along the stream, with swamps and braids becoming features on the main stem. The forests become more mixed, instead of being mostly pines. The soil become less sandy, and is mostly composed of silt. Most of the land, which drains the lower half of the subsegment, lies within the Catahoula National Wildlife Management Reserve; thus, the land is mostly used for recreational purposes, with some used for forestry.

## Designated Uses

The subsegment is qualified as being "Fully Supporting" water quality criteria on the EPA's 303d list for primary and secondary contact recreational uses, and for agriculture.

The subsegment is qualified as being "Not Supporting" water quality criteria on the EPA's 303d list for propagation of fish & wildlife. The suspected causes for these problems are listed as being: organic enrichment/low dissolved oxygen, & total dissolved solids.

## Ambient Water Quality Site

The ambient water quality site, for subsegment 101303, is located at LA Hwy 122. This is actually located in subsegment 101302, Iatt Lake. The boundary between these two subsegments lies upstream of this site; before Iatt Creek feeds Iatt Lake. This site may not be representative of the whole subsegment, 101303, because of the differing environmental conditions observed between lakes and streams.

## Reconnaissance

Field observations were recorded several times, from mid-February up to a week before the survey. Despite seasonal changes, the stream remained relatively unchanged in its major defining characteristics; particularly streamflow and cross-sectional area.

This abruptly changed in mid-July as Iatt Lake was being drained to control the overpopulation of aquatic vegetation on the lake. As a result of this, the water level in Iatt Creek began to drop to levels unseen on prior field trips.

## Notable Field Observations

The percentage of tree canopy coverage remained relatively uniform throughout the subsegment at 75% or more.

The amount of floating vegetation was virtually non-existent throughout the entire reach of the subsegment; trivial amounts were observed at all main stem sites upstream of IC 5 and at RLC 1. One site of note is IC 9, where prior to the survey, some water hyacinth and water lilies were observed. The presence of these plants was absent during the survey, due to the draining of Iatt Lake.

Sedimentation in the water column was most evident at site IC 6; this has always been the case since field observations were noted in mid-February. Upstream of this site is a clear cut field, which provides most of the sediment that runs off into the stream. In mid-February, sediment laden runoff was observed in the drainage ditches, along Buddy Taylor Road, entering Iatt Creek. An old sediment fence placed along the bank, between this field and Iatt Creek, failed due to the volume of runoff. By the time of the survey, the sediment fence had collapsed all the way down into the stream. Turbidity was also noted in Cruie Creek, which also runs near this field. Lesser amounts of turbidity were observed, in Iatt Creek, downstream of IC 6 prior to the survey, furthermore the turbidity was less obvious during the survey. At site IC 5, turbidity has been noted in the water column since mid-February. A possible explanation for this is that the land immediately east of here tends to hold water easily and drains poorly; thus runoff from this area can increase the turbidity in Iatt Creek at Harrisonburg Road. Upstream of IC 5, the water was consistently clear. A possible explanation for this is that the soils here are sandy and the land drains fairly well in respect to the increased stream gradient and surrounding hilly topography.

## Omissions

Tributary sites BC 1, SB 1, and SC 1 were omitted due the absence of streamflow within each.

### Benthic

The composition of soil, of Iatt Creek's stream bottom, varies throughout the drainage basin. In its upper reaches, the stream bottom is primarily composed of sand and silt. Near IC 6, the amount of sand in the substrate decreases; soft silt and organic debris become more prevalent. The same goes for all tributaries found above and below IC 6; tributaries upstream of IC 6 have more sandy soil than tributaries downstream of this site.

There was no visible evidence of channel dredging on the main stem or tributaries. Sediment runoff from forestry activities, within the drainage basin, can add more than usual amounts of soil into the stream bottom.

## Water Quality Sampling

Water quality samples were taken at all main stem sites. Samples were also taken at all tributary sites which had streamflow. Chlorophyll a samples were taken at sites: IC 1, IC 2, IC 3, IC 5, & IC 9. Blank and duplicate water quality samples were taken at site IC 8.

### Flow Measurements

Flow measurements were taken at all main stem and tributary sites with measurable streamflow; the exception was site IC 9, which did not require a flow measurement. Flow was estimated with a drogue at site IC 8. The drogue method proved to be unsuccessful at estimating flow at site IC 6. Therefore, there was no flow at this site during the survey.

At site IC 1, the flow was estimated by placing a flow meter in the water, taking an average of three recorded velocities in the stream. This was necessary due to the low water level, and small cross-section.

At site CRC 1, vertical 11 of the Aqua Calc file did not have the depth entered. The correct depth was entered into the file, at the office, after verification from the field crew.

### Cross-sections

Representative cross-sections were taken at all main stem sites and those tributary sites with measurable streamflow; the exception was site IC 9, which did not require a cross-section measurement.

The cross-section measured at site IC 6 was done two weeks after the survey. The difference in tapedown measurements showed the stream being 0.04 feet lower, when the cross-section was conducted.

## Continuous Monitors

Seven, unfixed continuous monitors were placed at sites: IC 1, IC 3, IC 4, IC 5, IC 6, IC 8, & IC 9.

## GPS, Mapping & Weather Station

Global Positioning System (GPS) coordinates were taken at all main stem sites, and at the two tributary sites with flow. Maps with these coordinates are available on the WS Surveys server. A weather station was set up at site IC 6 to record meteorological data throughout the length of the survey.

## Field Notes & Photographs

Field notes describing each site were taken from February 2004, up to a week before the survey. All field notes and water quality sheets are included with this report. All cross-sectional area sheets, flow data, maps, weather station data, GPS, continuous monitor data, survey plan and final report are available on the watershed shared network.

**Photos Taken:** ☐ Picture File #s: _____

**Tapedown Established:** ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

**Time of Travel Measurement:** ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

**Physical Site Characteristics:** Natural Waterbody: ☑ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

**Boat Accessible:** ☐ Nearest Launch: _____

**Bridge** ☐ **Bridge Safe:** ☐ Bridge Width: _____ Bridge Height: _____

**Profiling Measurements:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Time:** | | **Temp.( °C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |
| **Time:** | | **Temp.( °C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |
| **Time:** | | **Temp.( °C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |

**Equipment Used:**

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

**References**

**Convert Feet to Meters**

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: GC1 Subsegment: 120501 Date: 8/19/03 Time: 10:25

Waterbody: Grand Caillou Tapedown: 2.7 Gauge Height:

Site Location: Elysian Rd.

Personnel: Boffy, Jones, Dickinson

Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

| Weather Conditions: | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☐ | Hot >85° ☑ | Calm ☐ | NW ☐ N ☐ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☐ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☑ | Mild > 65° ☐ | Light Breeze ☐ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☑ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

**In Situ Water Quality Measurements:** Yes ☐ No ☑ Profiling: Yes ☐ No ☐

Continuous Monitor Deployed: Yes ☑ No ☐ Probe S/N: 40810

Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:

Continuous Monitor Location:

**Water Quality Samples Taken:** Yes ☐ No ☑

**Flow Characteristics:** Flowing: Yes ☑ No ☐ Measurable Flow: Yes ☑ No ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: Yes ☐ No ☐

Wind Influence: Yes ☐ No ☐ Influence Direction: Upstream ☐ Downstream ☐

**Flow Measurement:** Yes ☐ No ☑ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

**Flow Estimated:** Yes ☐ No ☑ Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

Right Descending Bank: Distance Time

Mid Stream: Distance Time

Left Descending Bank: Distance Time

**Cross Section Measurement:** Yes ☐ No ☑ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

**GPS Measurement:** Yes ☐ No ☑ GPS SSF File Name:

Site GPS: Yes ☐ No ☑ Cross Section GPS: Yes ☐ No ☐

**Photos Taken:** Yes ☐ No ☑ Picture File #s:

**Tapedown Established:** Yes ☑ No ☐ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☑

**Time of Travel Measurement:** Yes ☐ No ☑ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

**Comments:**

**Stream Characteristics:** Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☑

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☐ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☑ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☐ Slightly Turbid ☑ Opaque ☐

Water Color: Tea ☐ Brown ☑ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | Secchi |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

Water Quality Samples Taken: Yes ☐ No ☑

Flow Characteristics: Flowing: Yes ☑ No ☐

Flow Direction Upstream ☐ Downstream ☐

Wind Influence: Yes ☐ No ☐

Measurable Flow: Yes ☑ No ☐

Tidally Influenced: Yes ☐ No ☐

Influence Direction: Upstream ☐ Downstream ☐

Flow Measurement: Yes ☐ No ☑ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: Yes ☐ No ☑ Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

Right Descending Bank: Distance Time

Mid Stream: Distance Time

Left Descending Bank: Distance Time

Cross Section Measurement: Yes ☐ No ☑ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: Yes ☐ No ☑ GPS SSF File Name:

Site GPS: Yes ☐ No ☑ Cross Section GPS: Yes ☐ No ☐

Photos Taken: Yes ☐ No ☑ Picture File #s:

Tapedown Established: Yes ☑ No ☐ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☑

Time of Travel Measurement: Yes ☐ No ☑ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

Comments:

*Site Information*

Site #: SLC1 Subsegment: 120501 Date: 8/20/03 Time: 1245

Waterbody: St Louis Canal Tapedown 1: NA Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: ~~[illegible]~~ West of Confluence w/ Grand Caillou

Personnel: Bergeron, Butler

**Type of Work:** Recon ☐ Data Collection ☑

| **Weather Conditions:** | **Temperature (°F):** | **Wind (mph):** | **Wind Direction:** |
|---|---|---|---|
| Clear ☑ | Hot >85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover:** | Cool > 60° ☐ | 11-15 ☐ | Variable ☑ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☑ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

**Stream Characteristics:** Flowing: ☐ Measurable Flow: ☑

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

40811 meter ID

Water Quality Field Parameters

**Time:** 1245 **Temp.(°C):** 27.89 **pH:** 6.34 **Spcond(µhmos/cm):** 728.8

**D.O.:** 0.83 **D.O. %:** 10.7 **Salinity:** 0.38 **Depth (m):** 2.5ft **Secchi (in):** 3ft

**Flow Measurement:** ☐ Measurement Location: West of Grand Caillou

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: St Louis Canal

**Flow Estimated:** ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☑ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

**Cross Section Measurement:** ☐ Measurement Location:

Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name:

**GPS Measurement:** ☐ GPS SSF File Name:

Site GPS: ☑ Cross Section GPS: ☐

**Comments:**

Flow measurement is A Representative X-Section
Flow measurement over 10% due to amount of grass in
Stream. Took measurements were possible

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

**Physical Site Characteristics:** Natural Waterbody: ☑ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☑ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

**Boat Accessible:** ☐ Nearest Launch: _____

**Bridge** ☐ **Bridge Safe:** ☐ Bridge Width: _____ Bridge Height: _____

**Profiling Measurements:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Time:** | | **Temp.(°C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |
| **Time:** | | **Temp.(°C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |
| **Time:** | | **Temp.(°C):** | | **pH:** | | **Spcond(µhmos/cm):** | |
| **D.O.:** | | **D.O. %:** | | **Salinity:** | | **Depth (m):** | |

**Equipment Used:**

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

**References**

**Convert Feet to Meters**

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

*Site Information*

Site #: UNC 1 Subsegment: 12-0501 Date: 8/20/03 Time: 1110

Waterbody: Unnamed Canal Tapedown: Gauge Height:

Site Location: Hwy 57

Personnel: Jones, Boffy, Dickinson

Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

| Weather Conditions: | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☑ | Hot >85° ☑ | Calm ☐ | NW ☐ N ☐ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☐ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☐ | Mild > 65° ☐ | Light Breeze ☑ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☐ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

In Situ Water Quality Measurements: Yes ☑ No ☐ Profiling: Yes ☐ No ☐

Continuous Monitor Deployed: Yes ☐ No ☐ Probe S/N: 37761

Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:

Continuous Monitor Location:

Water Quality Samples Taken: Yes ☑ No ☐

Flow Characteristics: Flowing: Yes ☐ No ☑ Measurable Flow: Yes ☐ No ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: Yes ☐ No ☐

Wind Influence: Yes ☐ No ☐ Influence Direction: Upstream ☐ Downstream ☐

Flow Measurement: Yes ☐ No ☑ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: Yes ☐ No ☑ Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

Right Descending Bank: Distance Time

Mid Stream: Distance Time

Left Descending Bank: Distance Time

Cross Section Measurement: Yes ☑ No ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: UNC 1 XS

GPS Measurement: Yes ☐ No ☐ GPS SSF File Name:

Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐

Photos Taken: Yes ☐ No ☐ Picture File #s:

Tapedown Established: Yes ☐ No ☑ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☐

Time of Travel Measurement: Yes ☐ No ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

Comments:

Stream Characteristics: Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☑ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☑ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☑ Wetland ☐

Water Clarity: Clear ☑ Slightly Turbid ☐ Opaque ☐

Water Color: Tea ☑ Brown ☐ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time 1110 | Temp. 28.56 | pH 7.49 | Spcond(µhmos/cm) 623.7 | |
| Do 2.88 | Do% 37.2 | Salinity .32 | Depth 1m | Secchi .5 |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

*Site Information*

Site #: GC 3 Subsegment: 120501 Date: 8/20/03 Time: 1035
Waterbody: Grand Caillou Tapedown: 9.03 Gauge Height:
Site Location: Woodlawn Ranch Rd.
Personnel: Jones, Boffy, Dickinson
Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

| Weather Conditions: | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☑ | Hot >85° ☑ | Calm ☐ | NW ☐ N ☐ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☐ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☐ | Mild > 65° ☐ | Light Breeze ☑ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☐ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

**In Situ Water Quality Measurements:** Yes ☑ No ☐ Profiling: Yes ☐ No ☐
Continuous Monitor Deployed: Yes ☐ No ☐ Probe S/N: 37761
Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:
Continuous Monitor Location:

**Water Quality Samples Taken:** Yes ☑ No ☐
**Flow Characteristics:** Flowing: Yes ☐ No ☑ Measurable Flow: Yes ☐ No ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: Yes ☐ No ☐
Wind Influence: Yes ☐ No ☐ Influence Direction: Upstream ☐ Downstream ☐
**Flow Measurement:** Yes ☐ No ☑ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
**Flow Estimated:** Yes ☐ No ☑ Measurement Location:
Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Measurement: Yes ☐ No ☐
Dye Measurement: Yes ☐ No ☐
Right Descending Bank: Distance Time
Mid Stream: Distance Time
Left Descending Bank: Distance Time

**Cross Section Measurement:** Yes ☑ No ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: GC3 XS

**GPS Measurement:** Yes ☐ No ☐ GPS SSF File Name:
Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐

**Photos Taken:** Yes ☐ No ☐ Picture File #s:

**Tapedown Established:** Yes ☐ No ☐ Tapedown Location
Benchmark Established: Yes ☐ No ☐ Benchmark Location:
Survey Equipment Used: Yes ☐ No ☐

**Time of Travel Measurement:** Yes ☐ No ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected:

**Comments:**

**Stream Characteristics:** Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☑ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☑ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☐ Slightly Turbid ☑ Opaque ☐

Water Color: Tea ☐ Brown ☑ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time 1035 | Temp. 27.97 | pH 7.49 | Spcond(µhmos/cm) 481.0 | |
| Do 2.14 | Do% 27.9 | Salinity .24 | Depth 1m | Secchi .5 |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

Stream Characteristics: Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☑ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☑ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☐ Slightly Turbid ☑ Opaque ☐

Water Color: Tea ☐ Brown ☑ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

Boat Accessible: Yes ☐ No ☐ Nearest Launch:

Bridge Safe: Yes ☐ No ☐ Bridge Width Bridge Height

Abandoned Oil or Gas Platforms Present: Yes ☐ No ☐ N/A ☐

Location of Platforms:

Profile Measurement:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time | 1035 | Temp. | 27.97 | pH | 7.49 | Spcond(µhmos/cm) | 481.0 |
| Do | 2.14 | Do% | 27.9 | Salinity | .24 | Depth 1m | Secchi .5 |
| Time | | Temp. | | pH | | Spcond(µhmos/cm) | |
| Do | | Do% | | Salinity | | Depth | |
| Time | | Temp. | | pH | | Spcond(µhmos/cm) | |
| Do | | Do% | | Salinity | | Depth | |
| Time | | Temp. | | pH | | Spcond(µhmos/cm) | |
| Do | | Do% | | Salinity | | Depth | |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

*Site Information*

Site #: GC 3 Subsegment: 120501 Date: 8/20/03 Time: 1035
Waterbody: Grand Caillou Tapedown: 9.03 Gauge Height:
Site Location: Woodlawn Ranch Rd.
Personnel: Jones, Boffy, Dickinson
Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

Weather Conditions:

| | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☑ | Hot >85° ☑ | Calm ☐ | NW ☐ N ☐ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☐ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☐ | Mild > 65° ☐ | Light Breeze ☑ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☐ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

In Situ Water Quality Measurements: Yes ☑ No ☐ Profiling: Yes ☐ No ☐
Continuous Monitor Deployed: Yes ☐ No ☐ Probe S/N: 37761
Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:
Continuous Monitor Location:

Water Quality Samples Taken: Yes ☑ No ☐
Flow Characteristics: Flowing: Yes ☐ No ☑ Measurable Flow: Yes ☐ No ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: Yes ☐ No ☐
Wind Influence: Yes ☐ No ☐ Influence Direction: Upstream ☐ Downstream ☐
Flow Measurement: Yes ☐ No ☑ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: Yes ☐ No ☑ Measurement Location:
Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Measurement: Yes ☐ No ☐
Dye Measurement: Yes ☐ No ☐
Right Descending Bank: Distance Time
Mid Stream: Distance Time
Left Descending Bank: Distance Time

Cross Section Measurement: Yes ☑ No ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: GC3 XS
GPS Measurement: Yes ☐ No ☐ GPS SSF File Name:
Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐
Photos Taken: Yes ☐ No ☐ Picture File #s:
Tapedown Established: Yes ☐ No ☐ Tapedown Location
Benchmark Established: Yes ☐ No ☐ Benchmark Location:
Survey Equipment Used: Yes ☐ No ☐
Time of Travel Measurement: Yes ☐ No ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected:

Comments:

*Site Information*

Site #: GC4 Subsegment: 120501 Date: 8/20/03 Time: 1150

Waterbody: Grand Cailloo Tapedown: 12.5 Gauge Height:

Site Location: Pump Station

Personnel: Jones, Boffy, Dickinson

Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

Weather Conditions:

- Few Clouds ☑
- Partly Cloudy ☐
- Cloudy/Overcast ☐
- Fog/Smoke ☐
- Drizzle/Light Rain ☐
- Showers ☐
- Snow ☐

Temperature

- Hot >85° ☑
- Warm > 75° ☐
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind:

- Calm ☐
- Light Air ☐
- Light Breeze ☑
- Gentle Breeze ☐
- Moderate Breeze ☐
- Fresh Breeze ☐
- Strong Breeze ☐

Wind Direction:

NW ☐ N ☐ NE ☐
SW ☑ S ☐ SE ☐
E ☐ W ☐
Variable ☐

In Situ Water Quality Measurements: Yes ☑ No ☐

Profiling: Yes ☐ No ☐

Continuous Monitor Deployed: Yes ☐ No ☐

Probe S/N: 37761

Continuous Monitor Retrieved: Yes ☐ No ☐

Continuous Monitor Deployment Depth:

Continuous Monitor Location:

Water Quality Samples Taken: Yes ☑ No ☐

Flow Characteristics: Flowing: Yes ☐ No ☑

Measurable Flow: Yes ☐ No ☐

Flow Direction Upstream ☐ Downstream ☐

Tidally Influenced: Yes ☐ No ☐

Wind Influence: Yes ☐ No ☐

Influence Direction: Upstream ☐ Downstream ☐

Flow Measurement: Yes ☐ No ☑

Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: Yes ☐ No ☑

Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

Right Descending Bank: Distance Time

Mid Stream: Distance Time

Left Descending Bank: Distance Time

Cross Section Measurement: Yes ☐ No ☑ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: Yes ☐ No ☐ GPS SSF File Name:

Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐

Photos Taken: Yes ☐ No ☐ Picture File #s:

Tapedown Established: Yes ☐ No ☐ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☐

Time of Travel Measurement: Yes ☐ No ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

Comments: Pumping station was pumping while @ site. Pumped basically all week. Records will be gotten on time run & amount pumped & included.

**Stream Characteristics:** Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☐ Low Water ☑ Dry/ intermittent ☐

Control Structure Present: Yes ☑ No ☐ Location:

Type: Man Made Dam ☐ Control Structure ☑ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☐ Slightly Turbid ☑ Opaque ☐

Water Color: Tea ☐ Brown ☑ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time 1150 | Temp. 30.45 | pH 7.74 | Spcond(µhmos/cm) 408.9 | |
| Do 4.01 | Do% 53.5 | Salinity .2 | Depth 1m | Secchi 1.5 ft. |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

*Site Information*

Site #GC2 Subsegment: 120501 Date: 8/19/03 Time: 10:05

Waterbody: Bayou Grand Caillou Tapedown: 6.5 Gauge Height:

Site Location: Weimann Road

Personnel: Jones, Biffy, Dickinson

Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

| Weather Conditions: | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☐ | Hot >85° ☑ | Calm ☐ | NW ☐ N ☑ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☐ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☑ | Mild > 65° ☐ | Light Breeze ☐ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☑ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

**In Situ Water Quality Measurements:** Yes ☐ No ☐ Profiling: Yes ☐ No ☐

Continuous Monitor Deployed: Yes ☑ No ☐ Probe S/N: 40807

Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:

Continuous Monitor Location:

**Water Quality Samples Taken:** Yes ☐ No ☑

**Flow Characteristics:** Flowing: Yes ☑ No ☐ Measurable Flow: Yes ☑ No ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: Yes ☐ No ☑

Wind Influence: Yes ☐ No ☑ Influence Direction: Upstream ☐ Downstream ☐

**Flow Measurement:** Yes ☐ No ☑ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

**Flow Estimated:** Yes ☐ No ☑ Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

Right Descending Bank: Distance Time

Mid Stream: Distance Time

Left Descending Bank: Distance Time

**Cross Section Measurement:** Yes ☐ No ☑ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

**GPS Measurement:** Yes ☐ No ☐ GPS SSF File Name:

Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐

**Photos Taken:** Yes ☐ No ☐ Picture File #s:

**Tapedown Established:** Yes ☐ No ☐ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☐

**Time of Travel Measurement:** Yes ☐ No ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

**Comments:**

**Stream Characteristics:** Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☑

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☑ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☑ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☑ Slightly Turbid ☐ Opaque ☐

Water Color: Tea ☐ Brown ☑ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | Secchi |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

Field Site Survey.doc

*Site Information*

Site #: GC1 Subsegment: 120502 Date: 8/20/03 Time: 835 am

Waterbody: Grand Caillou Tapedown: 6.6 Gauge Height:

Site Location: Weimann Rd.

Personnel: Jones, Boffy, Dickinson

Type of Work: Recon ☐ TMDL Survey ☑ Other ☐

| Weather Conditions: | Temperature | Wind: | Wind Direction: |
|---|---|---|---|
| Few Clouds ☑ | Hot >85° ☐ | Calm ☐ | NW ☐ N ☐ NE ☐ |
| Partly Cloudy ☐ | Warm > 75° ☑ | Light Air ☐ | SW ☑ S ☐ SE ☐ |
| Cloudy/Overcast ☐ | Mild > 65° ☐ | Light Breeze ☑ | E ☐ W ☐ |
| Fog/Smoke ☐ | Cool > 60° ☐ | Gentle Breeze ☐ | Variable ☐ |
| Drizzle/Light Rain ☐ | Cold < 60° ☐ | Moderate Breeze ☐ | |
| Showers ☐ | | Fresh Breeze ☐ | |
| Snow ☐ | | Strong Breeze ☐ | |

**In Situ Water Quality Measurements:** Yes ☑ No ☐ Profiling: Yes ☐ No ☐

Continuous Monitor Deployed: Yes ☐ No ☐ Probe S/N: 37741

Continuous Monitor Retrieved: Yes ☐ No ☐ Continuous Monitor Deployment Depth:

Continuous Monitor Location:

**Water Quality Samples Taken:** Yes ☑ No ☐

**Flow Characteristics:** Flowing: Yes ☐ No ☐ Measurable Flow: Yes ☐ No ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: Yes ☐ No ☐

Wind Influence: Yes ☐ No ☐ Influence Direction: Upstream ☐ Downstream ☐

**Flow Measurement:** Yes ☑ No ☐ Measurement Location:

Type of Measurement: Wading ☑ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: GC2

**Flow Estimated:** Yes ☐ No ☐ Measurement Location:

Using Discharge Equipment: Yes ☐ No ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Measurement: Yes ☐ No ☐

Dye Measurement: Yes ☐ No ☐

| | | |
|---|---|---|
| Right Descending Bank: | Distance | Time |
| Mid Stream: | Distance | Time |
| Left Descending Bank: | Distance | Time |

**Cross Section Measurement:** Yes ☑ No ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

**GPS Measurement:** Yes ☐ No ☐ GPS SSF File Name:

Site GPS: Yes ☐ No ☐ Cross Section GPS: Yes ☐ No ☐

**Photos Taken:** Yes ☐ No ☐ Picture File #s:

**Tapedown Established:** Yes ☐ No ☐ Tapedown Location

Benchmark Established: Yes ☐ No ☐ Benchmark Location:

Survey Equipment Used: Yes ☐ No ☐

Time of Travel Measurement: Yes ☐ No ☑ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected:

Comments:

**Stream Characteristics:** Natural: Yes ☑ No ☐ Dredged: Yes ☐ No ☑ Stream Man-Made: Yes ☐ No ☑

Pool/Riffle: Yes ☐ No ☐ Marsh with Channel: Yes ☐ No ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Stream State: Flood ☐ High Water ☐ Normal ☑ Low Water ☐ Dry/ intermittent ☐

Control Structure Present: Yes ☐ No ☐ Location:

Type: Man Made Dam ☐ Control Structure ☐ Trash ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Water Clarity: Clear ☑ Slightly Turbid ☐ Opaque ☐

Water Color: Tea ☑ Brown ☐ Black ☐ Green ☐ Milky ☐

Algae Present None ☑ Light ☐ Medium ☐ Heavy ☐

Floating/Aquatic Vegetation Present: Yes ☐ No ☑

% Surface Coverage 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location:

Cross Section Location:

**Boat Accessible:** Yes ☐ No ☐ Nearest Launch:

**Bridge Safe:** Yes ☐ No ☐ Bridge Width Bridge Height

**Abandoned Oil or Gas Platforms Present:** Yes ☐ No ☐ N/A ☐

Location of Platforms:

**Profile Measurement:**

| | | | | |
|---|---|---|---|---|
| Time 835 | Temp. 26.36 | pH 7.48 | Spcond(µhmos/cm) 496.2 | |
| Do 2.92 | Do% 36.5 | Salinity .25 | Depth .5 ft. | Secchi .5 ft. |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |
| Time | Temp. | pH | Spcond(µhmos/cm) | |
| Do | Do% | Salinity | Depth | |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS |
| AquaCalc S/N | Sounding Reel: | Current Meter: |
| Discharge Equipment: | Fathometer: | Laser Gun |
| Vehicle: | Boat: | 4 Wheeler |
| Camera S/N: | | |

*Site Information*

Site #: GC 2 Subsegment: 120501 Date: 8/21/03 Time: 1030

Waterbody: Grand Caillou Tapedown 1: 6.55 Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: Welmann Rd.

Personnel: Jones, Brignac, Chuck

**Type of Work:** Recon ☐ Data Collection ☐

| **Weather Conditions:** | **Temperature (°F):** | **Wind (mph):** | **Wind Direction:** |
|---|---|---|---|
| Clear ☑ | Hot >85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☑ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover:** | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☑ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

**Stream Characteristics:** Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40807

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

**Time:** ____ **Temp.(°C):** ____ **pH:** ____ **Spcond(μhmos/cm):** ____

**D.O.:** ____ **D.O. %:** ____ **Salinity:** ____ **Depth (m):** ____ **Secchi (in):** ____

**Flow Measurement:** ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement:** ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

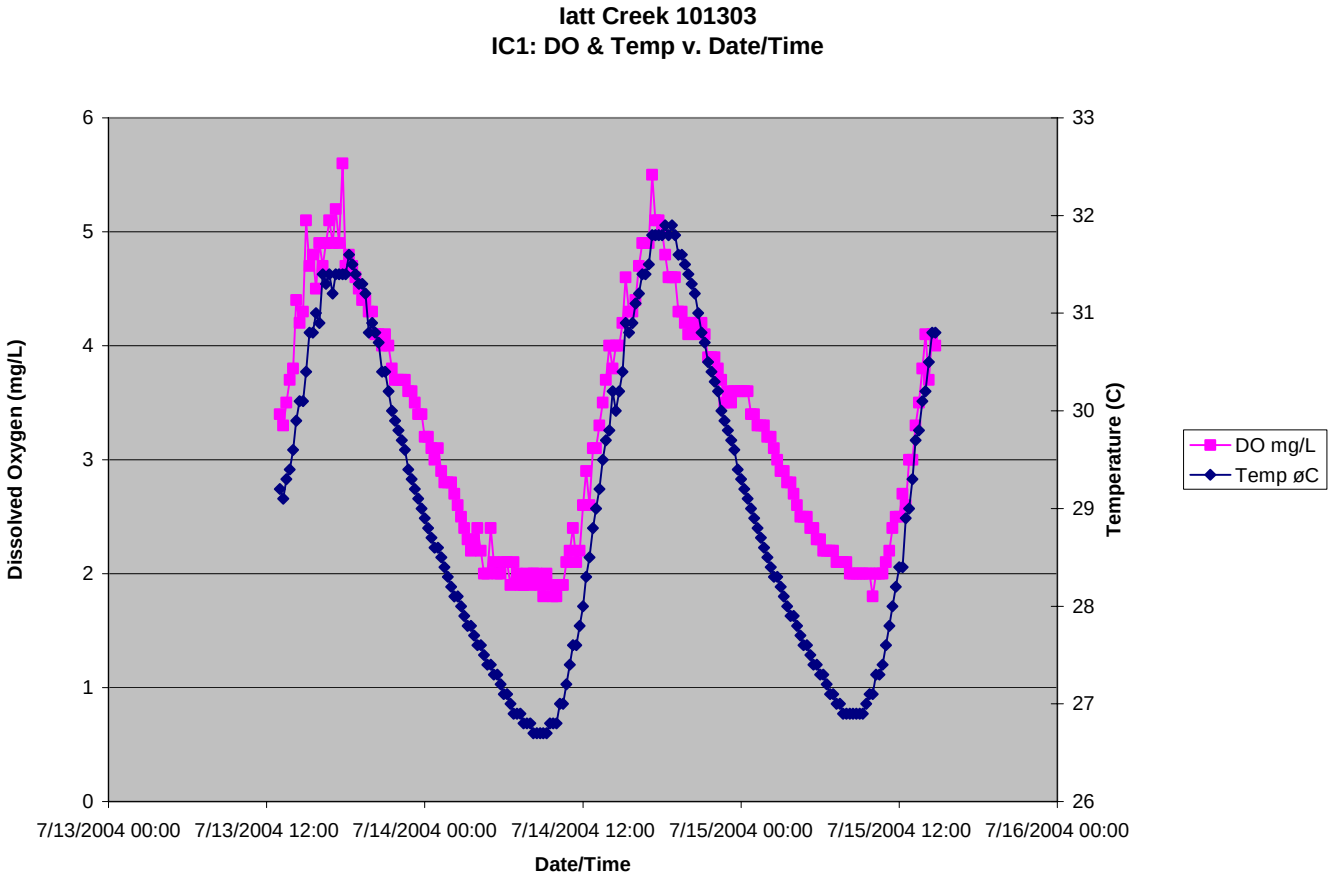
**GPS Measurement:** ☐ GPS SSF File Name: ____

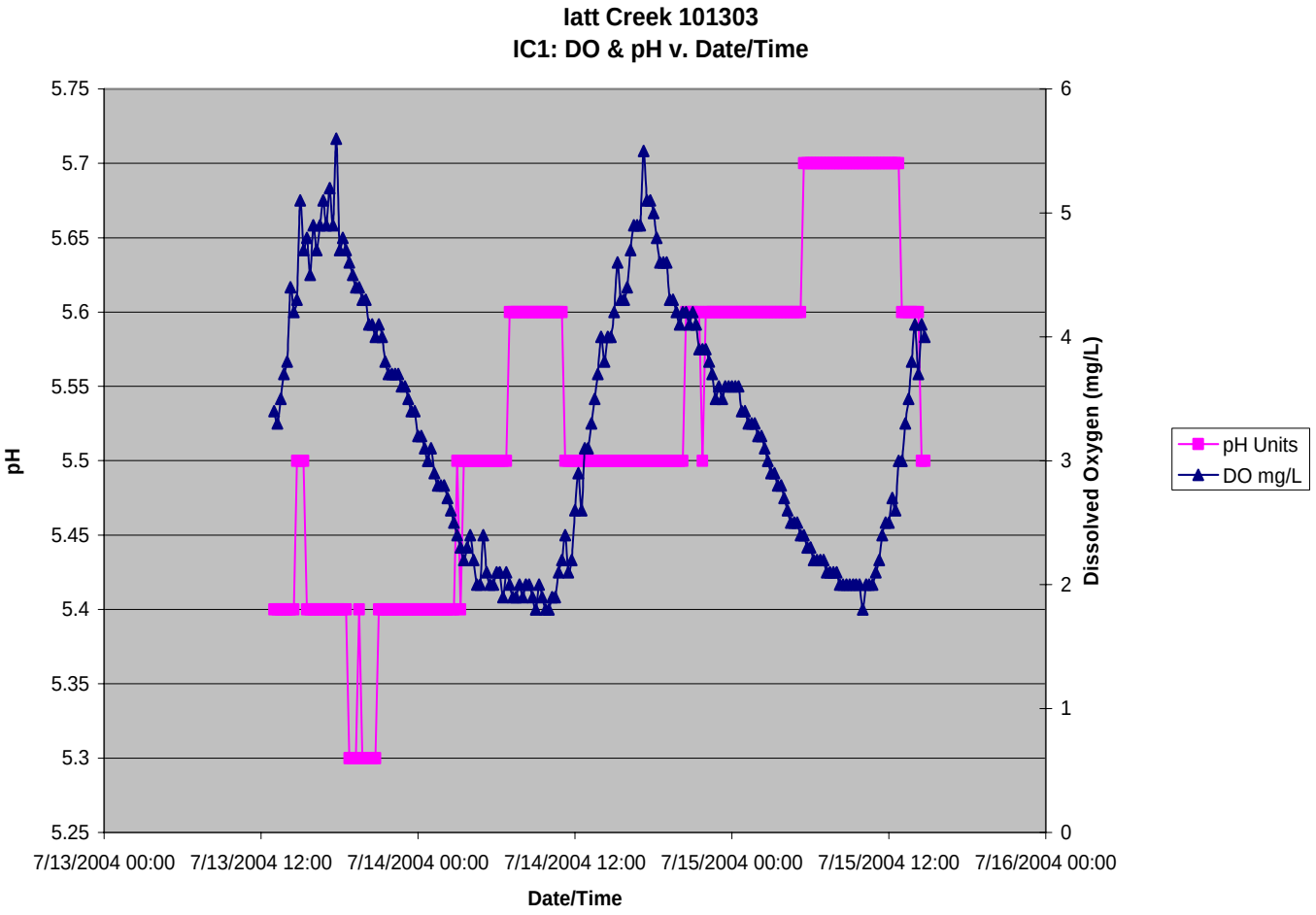
Site GPS: ☐ Cross Section GPS: ☐

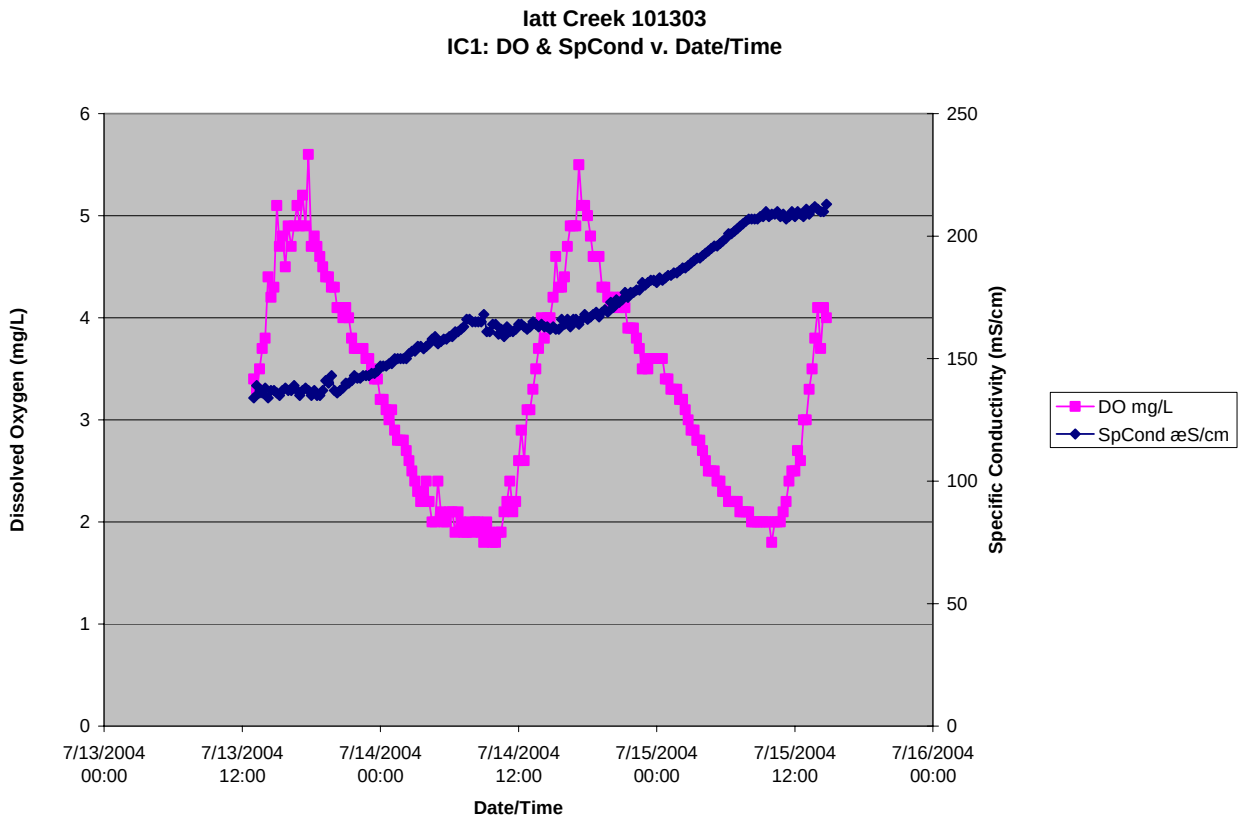
**Comments:** ____

# Appendix F4 – Continuous Monitor

| Iatt Creek Continuous Monitoring Averages | | |
|---|---|---|
| **Site** | **Temp ($^oC$)** | **DO (mg/L)** |
| IC1 | 29.06 | 3.27 |
| IC3 | 26.63 | 3.69 |
| IC4 | 25.16 | 4.62 |
| IC5 | 25.28 | 4.39 |
| IC6 | 25.86 | 4.36 |
| IC8 | 26.82 | 4.51 |
| IC9 | 27.44 | 2.30 |


Iatt Creek 101303
IC1: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
26
27
28
29
30
31
32
33
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC1: DO & pH v. Date/Time
pH
Dissolved Oxygen (mg/L)
Date/Time
5.75
5.7
5.65
5.6
5.55
5.5
5.45
5.4
5.35
5.3
5.25
6
5
4
3
2
1
0
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
pH Units
DO mg/L


Iatt Creek 101303
IC1: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
0
50
100
150
200
250
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

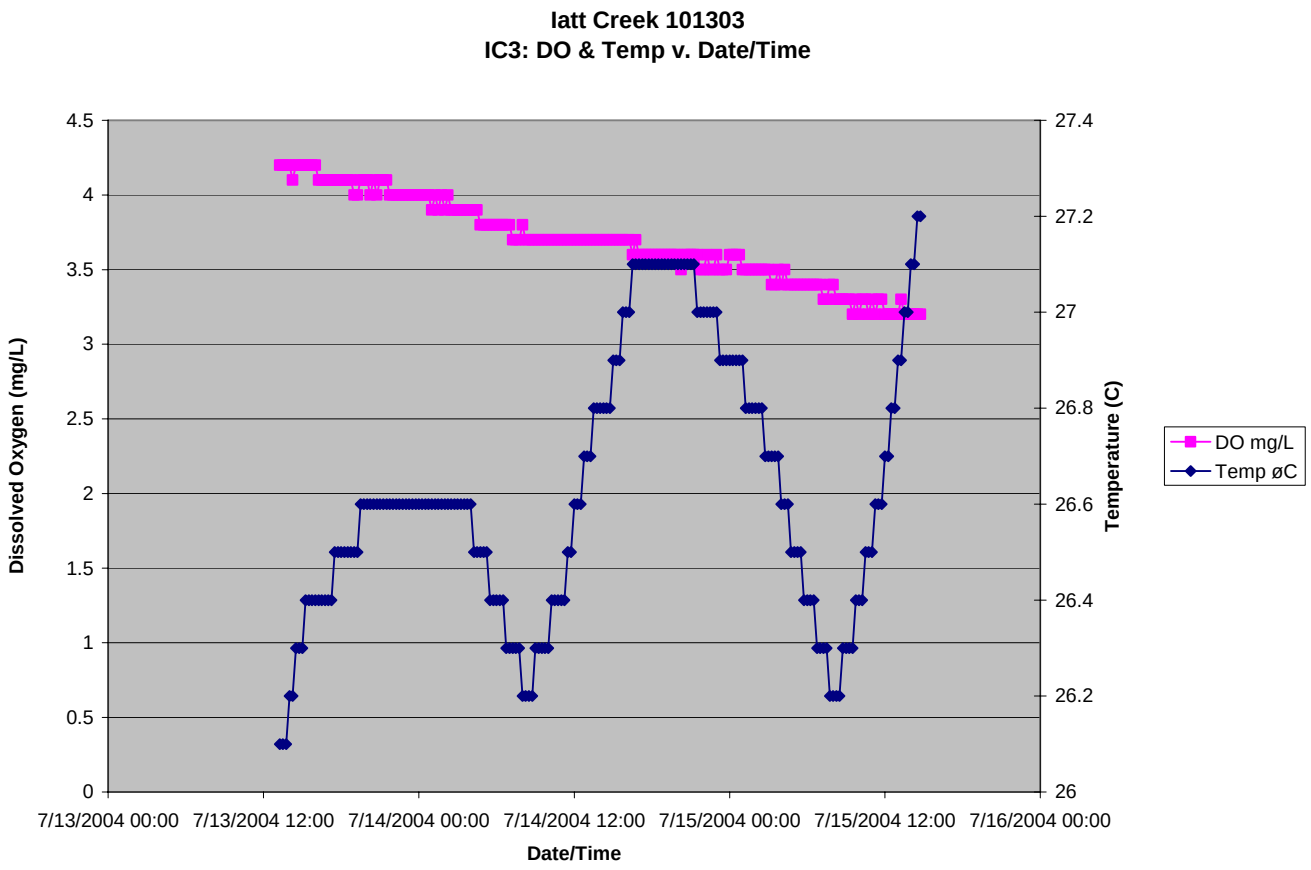
# Iatt Creek 101303 IC1 Continuous Monitoring Data

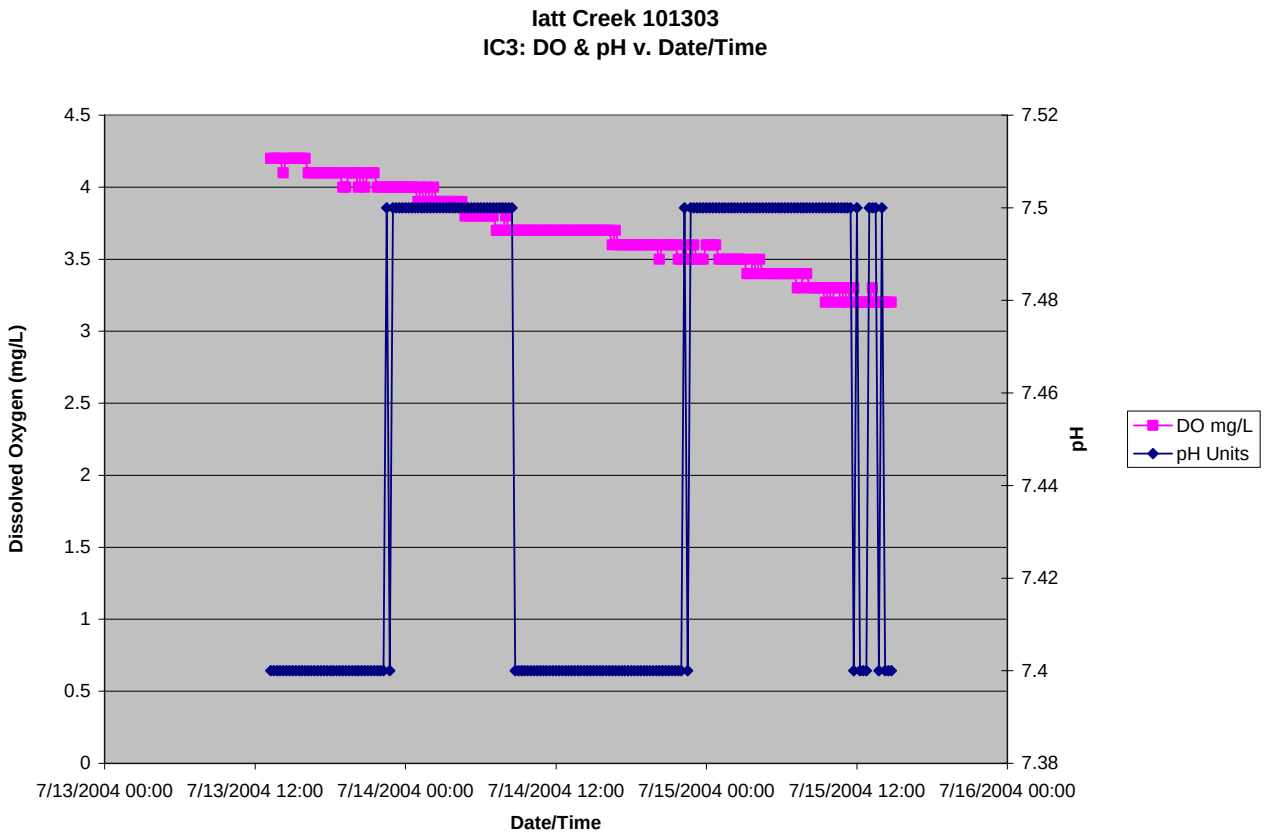
| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 13:00 | 7/13/2004 13:00 | 29.2 | 5.4 | 134 | 44.7 | 3.4 | FALSE | 0.1 |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 29.1 | 5.4 | 139 | 43.1 | 3.3 | FALSE | 0.1 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 29.3 | 5.4 | 136 | 46.2 | 3.5 | FALSE | 0.1 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 29.4 | 5.4 | 136 | 48.9 | 3.7 | FALSE | 0.1 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 29.6 | 5.4 | 138 | 50.5 | 3.8 | FALSE | 0.1 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 29.9 | 5.4 | 134 | 58.4 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 14:30 | 7/13/2004 14:30 | 30.1 | 5.4 | 137 | 54.9 | 4.2 | FALSE | 0.1 |
| 7/13/2004 | 14:45 | 7/13/2004 14:45 | 30.1 | 5.5 | 137 | 57.2 | 4.3 | FALSE | 0.1 |
| 7/13/2004 | 15:00 | 7/13/2004 15:00 | 30.4 | 5.5 | 136 | 68.1 | 5.1 | FALSE | 0.1 |
| 7/13/2004 | 15:15 | 7/13/2004 15:15 | 30.8 | 5.5 | 135 | 62.5 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:30 | 7/13/2004 15:30 | 30.8 | 5.4 | 137 | 63.8 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 15:45 | 7/13/2004 15:45 | 31 | 5.4 | 138 | 60.3 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 16:00 | 7/13/2004 16:00 | 30.9 | 5.4 | 137 | 65.9 | 4.9 | FALSE | 0.1 |
| 7/13/2004 | 16:15 | 7/13/2004 16:15 | 31.4 | 5.4 | 137 | 63.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:30 | 7/13/2004 16:30 | 31.3 | 5.4 | 139 | 65.8 | 4.9 | FALSE | 0.1 |
| 7/13/2004 | 16:45 | 7/13/2004 16:45 | 31.4 | 5.4 | 137 | 69.7 | 5.1 | FALSE | 0.1 |
| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 31.2 | 5.4 | 135 | 66 | 4.9 | FALSE | 0.1 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 31.4 | 5.4 | 137 | 70.8 | 5.2 | FALSE | 0.1 |
| 7/13/2004 | 17:30 | 7/13/2004 17:30 | 31.4 | 5.4 | 138 | 66.1 | 4.9 | FALSE | 0.1 |
| 7/13/2004 | 17:45 | 7/13/2004 17:45 | 31.4 | 5.4 | 137 | 75.2 | 5.6 | FALSE | 0.1 |
| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 31.4 | 5.4 | 135 | 64.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 18:15 | 7/13/2004 18:15 | 31.6 | 5.4 | 137 | 65.2 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 31.5 | 5.4 | 135 | 64.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 31.4 | 5.3 | 135 | 62.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 31.3 | 5.3 | 137 | 60.5 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 31.3 | 5.3 | 141 | 59.4 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 31.2 | 5.4 | 140 | 59.8 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 30.8 | 5.3 | 143 | 57.7 | 4.3 | FALSE | 0.1 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 30.9 | 5.3 | 137 | 57.5 | 4.3 | FALSE | 0.1 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 30.8 | 5.3 | 136 | 55.5 | 4.1 | FALSE | 0.1 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 30.7 | 5.3 | 137 | 54.2 | 4.1 | FALSE | 0.1 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 30.4 | 5.3 | 138 | 53.1 | 4 | FALSE | 0.1 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 30.4 | 5.4 | 140 | 54.6 | 4.1 | FALSE | 0.1 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 30.2 | 5.4 | 140 | 53.4 | 4 | FALSE | 0.1 |
| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 30 | 5.4 | 141 | 50.3 | 3.8 | FALSE | 0.1 |
| 7/13/2004 | 21:45 | 7/13/2004 21:45 | 29.9 | 5.4 | 143 | 48.6 | 3.7 | FALSE | 0.1 |
| 7/13/2004 | 22:00 | 7/13/2004 22:00 | 29.8 | 5.4 | 142 | 49 | 3.7 | FALSE | 0.1 |
| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 29.7 | 5.4 | 142 | 49.2 | 3.7 | FALSE | 0.1 |
| 7/13/2004 | 22:30 | 7/13/2004 22:30 | 29.6 | 5.4 | 143 | 48 | 3.7 | FALSE | 0.1 |
| 7/13/2004 | 22:45 | 7/13/2004 22:45 | 29.4 | 5.4 | 143 | 46.6 | 3.6 | FALSE | 0.1 |
| 7/13/2004 | 23:00 | 7/13/2004 23:00 | 29.3 | 5.4 | 143 | 46.4 | 3.6 | FALSE | 0.1 |
| 7/13/2004 | 23:15 | 7/13/2004 23:15 | 29.2 | 5.4 | 144 | 45.1 | 3.5 | FALSE | 0.1 |
| 7/13/2004 | 23:30 | 7/13/2004 23:30 | 29.1 | 5.4 | 144 | 43.8 | 3.4 | FALSE | 0.1 |
| 7/13/2004 | 23:45 | 7/13/2004 23:45 | 29 | 5.4 | 145 | 43.8 | 3.4 | FALSE | 0.1 |
| 7/14/2004 | 0:00 | 7/14/2004 00:00 | 28.9 | 5.4 | 147 | 41.8 | 3.2 | FALSE | 0.1 |
| 7/14/2004 | 0:15 | 7/14/2004 00:15 | 28.8 | 5.4 | 147 | 41.1 | 3.2 | FALSE | 0.1 |
| 7/14/2004 | 0:30 | 7/14/2004 00:30 | 28.7 | 5.4 | 147 | 40.4 | 3.1 | FALSE | 0.1 |

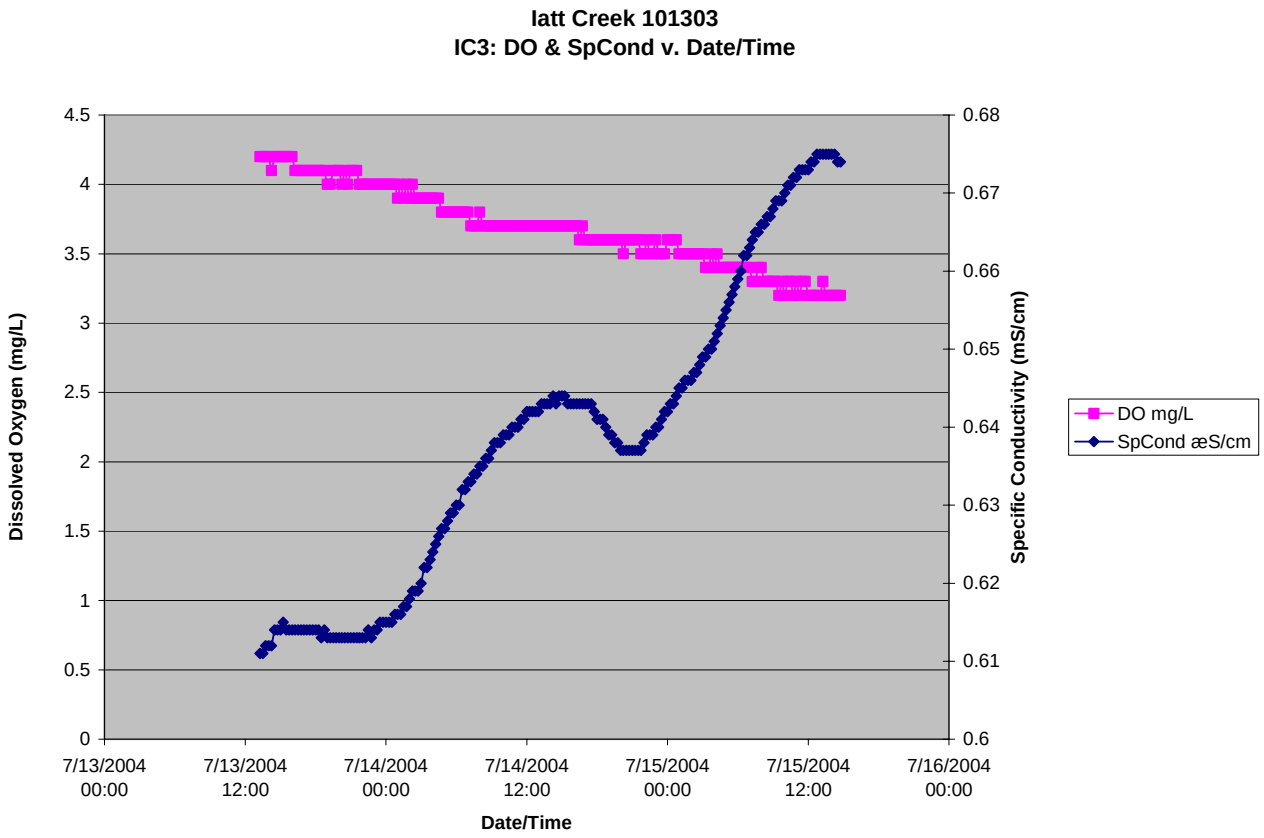
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 0:45 | 7/14/2004 00:45 | 28.6 | 5.4 | 148 | 39 | 3 | FALSE | 0.1 |
| 7/14/2004 | 1:00 | 7/14/2004 01:00 | 28.6 | 5.4 | 148 | 39.9 | 3.1 | FALSE | 0.1 |
| 7/14/2004 | 1:15 | 7/14/2004 01:15 | 28.5 | 5.4 | 150 | 37.2 | 2.9 | FALSE | 0.1 |
| 7/14/2004 | 1:30 | 7/14/2004 01:30 | 28.4 | 5.4 | 150 | 36.6 | 2.8 | FALSE | 0.1 |
| 7/14/2004 | 1:45 | 7/14/2004 01:45 | 28.3 | 5.4 | 150 | 36 | 2.8 | FALSE | 0.1 |
| 7/14/2004 | 2:00 | 7/14/2004 02:00 | 28.2 | 5.4 | 150 | 35.3 | 2.8 | FALSE | 0.1 |
| 7/14/2004 | 2:15 | 7/14/2004 02:15 | 28.1 | 5.4 | 150 | 34.7 | 2.7 | FALSE | 0.1 |
| 7/14/2004 | 2:30 | 7/14/2004 02:30 | 28.1 | 5.4 | 152 | 33.6 | 2.6 | FALSE | 0.1 |
| 7/14/2004 | 2:45 | 7/14/2004 02:45 | 28 | 5.4 | 153 | 31.3 | 2.5 | FALSE | 0.1 |
| 7/14/2004 | 3:00 | 7/14/2004 03:00 | 27.9 | 5.5 | 153 | 30.7 | 2.4 | FALSE | 0.1 |
| 7/14/2004 | 3:15 | 7/14/2004 03:15 | 27.8 | 5.4 | 155 | 29.6 | 2.3 | FALSE | 0.1 |
| 7/14/2004 | 3:30 | 7/14/2004 03:30 | 27.8 | 5.5 | 155 | 28.4 | 2.2 | FALSE | 0.1 |
| 7/14/2004 | 3:45 | 7/14/2004 03:45 | 27.7 | 5.5 | 154 | 29.7 | 2.3 | FALSE | 0.1 |
| 7/14/2004 | 4:00 | 7/14/2004 04:00 | 27.6 | 5.5 | 155 | 29.8 | 2.4 | FALSE | 0.1 |
| 7/14/2004 | 4:15 | 7/14/2004 04:15 | 27.6 | 5.5 | 156 | 28 | 2.2 | FALSE | 0.1 |
| 7/14/2004 | 4:30 | 7/14/2004 04:30 | 27.5 | 5.5 | 158 | 24.9 | 2 | FALSE | 0.1 |
| 7/14/2004 | 4:45 | 7/14/2004 04:45 | 27.4 | 5.5 | 159 | 25.8 | 2 | FALSE | 0.1 |
| 7/14/2004 | 5:00 | 7/14/2004 05:00 | 27.4 | 5.5 | 156 | 29.7 | 2.4 | FALSE | 0.1 |
| 7/14/2004 | 5:15 | 7/14/2004 05:15 | 27.3 | 5.5 | 157 | 26.4 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 5:30 | 7/14/2004 05:30 | 27.3 | 5.5 | 158 | 25.1 | 2 | FALSE | 0.1 |
| 7/14/2004 | 5:45 | 7/14/2004 05:45 | 27.2 | 5.5 | 158 | 25.3 | 2 | FALSE | 0.1 |
| 7/14/2004 | 6:00 | 7/14/2004 06:00 | 27.1 | 5.5 | 159 | 25.9 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 6:15 | 7/14/2004 06:15 | 27.1 | 5.5 | 159 | 26.5 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 6:30 | 7/14/2004 06:30 | 27 | 5.5 | 161 | 24.3 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 6:45 | 7/14/2004 06:45 | 26.9 | 5.5 | 161 | 26 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 7:00 | 7/14/2004 07:00 | 26.9 | 5.6 | 162 | 24.9 | 2 | FALSE | 0.1 |
| 7/14/2004 | 7:15 | 7/14/2004 07:15 | 26.9 | 5.6 | 163 | 24.1 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 7:30 | 7/14/2004 07:30 | 26.8 | 5.6 | 166 | 23.4 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 7:45 | 7/14/2004 07:45 | 26.8 | 5.6 | 166 | 24.9 | 2 | FALSE | 0.1 |
| 7/14/2004 | 8:00 | 7/14/2004 08:00 | 26.8 | 5.6 | 165 | 23.6 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 8:15 | 7/14/2004 08:15 | 26.7 | 5.6 | 165 | 24.4 | 2 | FALSE | 0.1 |
| 7/14/2004 | 8:30 | 7/14/2004 08:30 | 26.7 | 5.6 | 165 | 24.8 | 2 | FALSE | 0.1 |
| 7/14/2004 | 8:45 | 7/14/2004 08:45 | 26.7 | 5.6 | 165 | 24.3 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 9:00 | 7/14/2004 09:00 | 26.7 | 5.6 | 168 | 22.2 | 1.8 | FALSE | 0.1 |
| 7/14/2004 | 9:15 | 7/14/2004 09:15 | 26.7 | 5.6 | 161 | 25.2 | 2 | FALSE | 0.1 |
| 7/14/2004 | 9:30 | 7/14/2004 09:30 | 26.8 | 5.6 | 161 | 24.3 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 9:45 | 7/14/2004 09:45 | 26.8 | 5.6 | 164 | 22.3 | 1.8 | FALSE | 0.1 |
| 7/14/2004 | 10:00 | 7/14/2004 10:00 | 26.8 | 5.6 | 164 | 22.5 | 1.8 | FALSE | 0.1 |
| 7/14/2004 | 10:15 | 7/14/2004 10:15 | 27 | 5.6 | 160 | 24.3 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 10:30 | 7/14/2004 10:30 | 27 | 5.6 | 162 | 24.2 | 1.9 | FALSE | 0.1 |
| 7/14/2004 | 10:45 | 7/14/2004 10:45 | 27.2 | 5.6 | 159 | 26.3 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 11:00 | 7/14/2004 11:00 | 27.4 | 5.6 | 163 | 28.1 | 2.2 | FALSE | 0.1 |
| 7/14/2004 | 11:15 | 7/14/2004 11:15 | 27.6 | 5.5 | 161 | 29.9 | 2.4 | FALSE | 0.1 |
| 7/14/2004 | 11:30 | 7/14/2004 11:30 | 27.6 | 5.5 | 161 | 26.3 | 2.1 | FALSE | 0.1 |
| 7/14/2004 | 11:45 | 7/14/2004 11:45 | 27.8 | 5.5 | 162 | 28.5 | 2.2 | FALSE | 0.1 |
| 7/14/2004 | 12:00 | 7/14/2004 12:00 | 28 | 5.5 | 164 | 33.5 | 2.6 | FALSE | 0.1 |
| 7/14/2004 | 12:15 | 7/14/2004 12:15 | 28.3 | 5.5 | 164 | 37.1 | 2.9 | FALSE | 0.1 |
| 7/14/2004 | 12:30 | 7/14/2004 12:30 | 28.5 | 5.5 | 163 | 34.1 | 2.6 | FALSE | 0.1 |
| 7/14/2004 | 12:45 | 7/14/2004 12:45 | 28.8 | 5.5 | 162 | 40.1 | 3.1 | FALSE | 0.1 |
| 7/14/2004 | 13:00 | 7/14/2004 13:00 | 29 | 5.5 | 163 | 40.6 | 3.1 | FALSE | 0.1 |
| 7/14/2004 | 13:15 | 7/14/2004 13:15 | 29.2 | 5.5 | 165 | 43.6 | 3.3 | FALSE | 0.1 |
| 7/14/2004 | 13:30 | 7/14/2004 13:30 | 29.5 | 5.5 | 164 | 45.5 | 3.5 | FALSE | 0.1 |
| 7/14/2004 | 13:45 | 7/14/2004 13:45 | 29.7 | 5.5 | 163 | 48.3 | 3.7 | FALSE | 0.1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 14:00 | 7/14/2004 | 14:00 | 29.8 | 5.5 | 164 | 53 | 4 | FALSE | 0.1 |
| 7/14/2004 | 14:15 | 7/14/2004 | 14:15 | 30.2 | 5.5 | 163 | 50.2 | 3.8 | FALSE | 0.1 |
| 7/14/2004 | 14:30 | 7/14/2004 | 14:30 | 30 | 5.5 | 163 | 52.7 | 4 | FALSE | 0.1 |
| 7/14/2004 | 14:45 | 7/14/2004 | 14:45 | 30.2 | 5.5 | 162 | 53.6 | 4 | FALSE | 0.1 |
| 7/14/2004 | 15:00 | 7/14/2004 | 15:00 | 30.4 | 5.5 | 163 | 55.3 | 4.2 | FALSE | 0.1 |
| 7/14/2004 | 15:15 | 7/14/2004 | 15:15 | 30.9 | 5.5 | 162 | 61.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 15:30 | 7/14/2004 | 15:30 | 30.8 | 5.5 | 162 | 57.2 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 15:45 | 7/14/2004 | 15:45 | 30.9 | 5.5 | 166 | 58 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 31.1 | 5.5 | 164 | 59.8 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 16:15 | 7/14/2004 | 16:15 | 31.2 | 5.5 | 166 | 63.8 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 16:30 | 7/14/2004 | 16:30 | 31.4 | 5.5 | 163 | 67 | 4.9 | FALSE | 0.1 |
| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 31.4 | 5.5 | 166 | 66.6 | 4.9 | FALSE | 0.1 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 31.5 | 5.5 | 166 | 67.1 | 4.9 | FALSE | 0.1 |
| 7/14/2004 | 17:15 | 7/14/2004 | 17:15 | 31.8 | 5.5 | 164 | 75 | 5.5 | FALSE | 0.1 |
| 7/14/2004 | 17:30 | 7/14/2004 | 17:30 | 31.8 | 5.5 | 166 | 69.5 | 5.1 | FALSE | 0.1 |
| 7/14/2004 | 17:45 | 7/14/2004 | 17:45 | 31.8 | 5.5 | 168 | 69.7 | 5.1 | FALSE | 0.1 |
| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 31.8 | 5.5 | 166 | 67.8 | 5 | FALSE | 0.1 |
| 7/14/2004 | 18:15 | 7/14/2004 | 18:15 | 31.9 | 5.5 | 167 | 65.3 | 4.8 | FALSE | 0.1 |
| 7/14/2004 | 18:30 | 7/14/2004 | 18:30 | 31.8 | 5.5 | 168 | 62.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 18:45 | 7/14/2004 | 18:45 | 31.9 | 5.5 | 169 | 62.9 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 31.8 | 5.5 | 167 | 62.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 19:15 | 7/14/2004 | 19:15 | 31.6 | 5.5 | 169 | 59.1 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 19:30 | 7/14/2004 | 19:30 | 31.6 | 5.5 | 170 | 58.8 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 31.5 | 5.5 | 169 | 56.5 | 4.2 | FALSE | 0.1 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 31.4 | 5.5 | 173 | 56.2 | 4.1 | FALSE | 0.1 |
| 7/14/2004 | 20:15 | 7/14/2004 | 20:15 | 31.3 | 5.5 | 171 | 56.9 | 4.2 | FALSE | 0.1 |
| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 31.2 | 5.6 | 174 | 56.9 | 4.2 | FALSE | 0.1 |
| 7/14/2004 | 20:45 | 7/14/2004 | 20:45 | 31 | 5.6 | 173 | 55.7 | 4.1 | FALSE | 0.1 |
| 7/14/2004 | 21:00 | 7/14/2004 | 21:00 | 30.8 | 5.6 | 174 | 56.5 | 4.2 | FALSE | 0.1 |
| 7/14/2004 | 21:15 | 7/14/2004 | 21:15 | 30.7 | 5.6 | 177 | 54.3 | 4.1 | FALSE | 0.1 |
| 7/14/2004 | 21:30 | 7/14/2004 | 21:30 | 30.5 | 5.6 | 175 | 51.9 | 3.9 | FALSE | 0.1 |
| 7/14/2004 | 21:45 | 7/14/2004 | 21:45 | 30.4 | 5.5 | 177 | 51.3 | 3.9 | FALSE | 0.1 |
| 7/14/2004 | 22:00 | 7/14/2004 | 22:00 | 30.3 | 5.6 | 177 | 52.4 | 3.9 | FALSE | 0.1 |
| 7/14/2004 | 22:15 | 7/14/2004 | 22:15 | 30.2 | 5.6 | 178 | 50.2 | 3.8 | FALSE | 0.1 |
| 7/14/2004 | 22:30 | 7/14/2004 | 22:30 | 30 | 5.6 | 178 | 49.2 | 3.7 | FALSE | 0.1 |
| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 29.9 | 5.6 | 181 | 46.6 | 3.5 | FALSE | 0.1 |
| 7/14/2004 | 23:00 | 7/14/2004 | 23:00 | 29.8 | 5.6 | 180 | 46.8 | 3.6 | FALSE | 0.1 |
| 7/14/2004 | 23:15 | 7/14/2004 | 23:15 | 29.7 | 5.6 | 181 | 46 | 3.5 | FALSE | 0.1 |
| 7/14/2004 | 23:30 | 7/14/2004 | 23:30 | 29.6 | 5.6 | 182 | 46.8 | 3.6 | FALSE | 0.1 |
| 7/14/2004 | 23:45 | 7/14/2004 | 23:45 | 29.4 | 5.6 | 182 | 46.8 | 3.6 | FALSE | 0.1 |
| 7/15/2004 | 0:00 | 7/15/2004 | 00:00 | 29.3 | 5.6 | 181 | 47.3 | 3.6 | FALSE | 0.1 |
| 7/15/2004 | 0:15 | 7/15/2004 | 00:15 | 29.2 | 5.6 | 183 | 46.8 | 3.6 | FALSE | 0.1 |
| 7/15/2004 | 0:30 | 7/15/2004 | 00:30 | 29.1 | 5.6 | 182 | 46.8 | 3.6 | FALSE | 0.1 |
| 7/15/2004 | 0:45 | 7/15/2004 | 00:45 | 29 | 5.6 | 183 | 44.5 | 3.4 | FALSE | 0.1 |
| 7/15/2004 | 1:00 | 7/15/2004 | 01:00 | 28.9 | 5.6 | 184 | 44.3 | 3.4 | FALSE | 0.1 |
| 7/15/2004 | 1:15 | 7/15/2004 | 01:15 | 28.8 | 5.6 | 184 | 43.2 | 3.3 | FALSE | 0.1 |
| 7/15/2004 | 1:30 | 7/15/2004 | 01:30 | 28.7 | 5.6 | 185 | 42.4 | 3.3 | FALSE | 0.1 |
| 7/15/2004 | 1:45 | 7/15/2004 | 01:45 | 28.6 | 5.6 | 185 | 42.8 | 3.3 | FALSE | 0.1 |
| 7/15/2004 | 2:00 | 7/15/2004 | 02:00 | 28.5 | 5.6 | 186 | 41.9 | 3.2 | FALSE | 0.1 |
| 7/15/2004 | 2:15 | 7/15/2004 | 02:15 | 28.4 | 5.6 | 187 | 40.8 | 3.2 | FALSE | 0.1 |
| 7/15/2004 | 2:30 | 7/15/2004 | 02:30 | 28.3 | 5.6 | 187 | 39.3 | 3.1 | FALSE | 0.1 |
| 7/15/2004 | 2:45 | 7/15/2004 | 02:45 | 28.3 | 5.6 | 188 | 38.1 | 3 | FALSE | 0.1 |
| 7/15/2004 | 3:00 | 7/15/2004 | 03:00 | 28.2 | 5.6 | 189 | 37 | 2.9 | FALSE | 0.1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7/15/2004 | 3:15 | 7/15/2004 03:15 | 28.1 | 5.6 | 190 | 36.6 | 2.9 | FALSE | 0.1 |
| 7/15/2004 | 3:30 | 7/15/2004 03:30 | 28 | 5.6 | 191 | 35.8 | 2.8 | FALSE | 0.1 |
| 7/15/2004 | 3:45 | 7/15/2004 03:45 | 27.9 | 5.6 | 191 | 35.3 | 2.8 | FALSE | 0.1 |
| 7/15/2004 | 4:00 | 7/15/2004 04:00 | 27.9 | 5.6 | 192 | 34 | 2.7 | FALSE | 0.1 |
| 7/15/2004 | 4:15 | 7/15/2004 04:15 | 27.8 | 5.6 | 193 | 33.2 | 2.6 | FALSE | 0.1 |
| 7/15/2004 | 4:30 | 7/15/2004 04:30 | 27.7 | 5.6 | 194 | 32 | 2.5 | FALSE | 0.1 |
| 7/15/2004 | 4:45 | 7/15/2004 04:45 | 27.6 | 5.6 | 195 | 31.8 | 2.5 | FALSE | 0.1 |
| 7/15/2004 | 5:00 | 7/15/2004 05:00 | 27.6 | 5.6 | 196 | 31.6 | 2.5 | FALSE | 0.1 |
| 7/15/2004 | 5:15 | 7/15/2004 05:15 | 27.5 | 5.6 | 196 | 30.4 | 2.4 | FALSE | 0.1 |
| 7/15/2004 | 5:30 | 7/15/2004 05:30 | 27.4 | 5.7 | 197 | 30.4 | 2.4 | FALSE | 0.1 |
| 7/15/2004 | 5:45 | 7/15/2004 05:45 | 27.4 | 5.7 | 198 | 29.5 | 2.3 | FALSE | 0.1 |
| 7/15/2004 | 6:00 | 7/15/2004 06:00 | 27.3 | 5.7 | 199 | 28.9 | 2.3 | FALSE | 0.1 |
| 7/15/2004 | 6:15 | 7/15/2004 06:15 | 27.3 | 5.7 | 201 | 28 | 2.2 | FALSE | 0.1 |
| 7/15/2004 | 6:30 | 7/15/2004 06:30 | 27.2 | 5.7 | 201 | 28.2 | 2.2 | FALSE | 0.1 |
| 7/15/2004 | 6:45 | 7/15/2004 06:45 | 27.1 | 5.7 | 202 | 27.4 | 2.2 | FALSE | 0.1 |
| 7/15/2004 | 7:00 | 7/15/2004 07:00 | 27.1 | 5.7 | 203 | 27.4 | 2.2 | FALSE | 0.1 |
| 7/15/2004 | 7:15 | 7/15/2004 07:15 | 27 | 5.7 | 204 | 26.6 | 2.1 | FALSE | 0.1 |
| 7/15/2004 | 7:30 | 7/15/2004 07:30 | 27 | 5.7 | 205 | 26.5 | 2.1 | FALSE | 0.1 |
| 7/15/2004 | 7:45 | 7/15/2004 07:45 | 26.9 | 5.7 | 206 | 26.1 | 2.1 | FALSE | 0.1 |
| 7/15/2004 | 8:00 | 7/15/2004 08:00 | 26.9 | 5.7 | 207 | 25.8 | 2.1 | FALSE | 0.1 |
| 7/15/2004 | 8:15 | 7/15/2004 08:15 | 26.9 | 5.7 | 207 | 25.6 | 2 | FALSE | 0.1 |
| 7/15/2004 | 8:30 | 7/15/2004 08:30 | 26.9 | 5.7 | 207 | 24.7 | 2 | FALSE | 0.1 |
| 7/15/2004 | 8:45 | 7/15/2004 08:45 | 26.9 | 5.7 | 207 | 25.6 | 2 | FALSE | 0.1 |
| 7/15/2004 | 9:00 | 7/15/2004 09:00 | 26.9 | 5.7 | 208 | 24.4 | 2 | FALSE | 0.1 |
| 7/15/2004 | 9:15 | 7/15/2004 09:15 | 26.9 | 5.7 | 208 | 24.8 | 2 | FALSE | 0.1 |
| 7/15/2004 | 9:30 | 7/15/2004 09:30 | 27 | 5.7 | 210 | 25 | 2 | FALSE | 0.1 |
| 7/15/2004 | 9:45 | 7/15/2004 09:45 | 27.1 | 5.7 | 208 | 25.7 | 2 | FALSE | 0.1 |
| 7/15/2004 | 10:00 | 7/15/2004 10:00 | 27.1 | 5.7 | 209 | 23 | 1.8 | FALSE | 0.1 |
| 7/15/2004 | 10:15 | 7/15/2004 10:15 | 27.3 | 5.7 | 209 | 25 | 2 | FALSE | 0.1 |
| 7/15/2004 | 10:30 | 7/15/2004 10:30 | 27.3 | 5.7 | 210 | 24.9 | 2 | FALSE | 0.1 |
| 7/15/2004 | 10:45 | 7/15/2004 10:45 | 27.4 | 5.7 | 208 | 25.4 | 2 | FALSE | 0.1 |
| 7/15/2004 | 11:00 | 7/15/2004 11:00 | 27.6 | 5.7 | 209 | 26 | 2.1 | FALSE | 0.1 |
| 7/15/2004 | 11:15 | 7/15/2004 11:15 | 27.8 | 5.7 | 207 | 27.8 | 2.2 | FALSE | 0.1 |
| 7/15/2004 | 11:30 | 7/15/2004 11:30 | 28 | 5.7 | 208 | 30.6 | 2.4 | FALSE | 0.1 |
| 7/15/2004 | 11:45 | 7/15/2004 11:45 | 28.2 | 5.7 | 210 | 32.2 | 2.5 | FALSE | 0.1 |
| 7/15/2004 | 12:00 | 7/15/2004 12:00 | 28.4 | 5.7 | 208 | 32.5 | 2.5 | FALSE | 0.1 |
| 7/15/2004 | 12:15 | 7/15/2004 12:15 | 28.4 | 5.7 | 210 | 34.8 | 2.7 | FALSE | 0.1 |
| 7/15/2004 | 12:30 | 7/15/2004 12:30 | 28.9 | 5.7 | 209 | 34.1 | 2.6 | FALSE | 0.1 |
| 7/15/2004 | 12:45 | 7/15/2004 12:45 | 29 | 5.7 | 208 | 39.5 | 3 | FALSE | 0.1 |
| 7/15/2004 | 13:00 | 7/15/2004 13:00 | 29.3 | 5.6 | 211 | 38.9 | 3 | FALSE | 0.1 |
| 7/15/2004 | 13:15 | 7/15/2004 13:15 | 29.7 | 5.6 | 209 | 43 | 3.3 | FALSE | 0.1 |
| 7/15/2004 | 13:30 | 7/15/2004 13:30 | 29.8 | 5.6 | 211 | 45.9 | 3.5 | FALSE | 0.1 |
| 7/15/2004 | 13:45 | 7/15/2004 13:45 | 30.1 | 5.6 | 212 | 50 | 3.8 | FALSE | 0.1 |
| 7/15/2004 | 14:00 | 7/15/2004 14:00 | 30.2 | 5.6 | 211 | 54.7 | 4.1 | FALSE | 0.1 |
| 7/15/2004 | 14:15 | 7/15/2004 14:15 | 30.5 | 5.6 | 210 | 49.4 | 3.7 | FALSE | 0.1 |
| 7/15/2004 | 14:30 | 7/15/2004 14:30 | 30.8 | 5.5 | 210 | 54.9 | 4.1 | FALSE | 0.1 |
| 7/15/2004 | 14:45 | 7/15/2004 14:45 | 30.8 | 5.5 | 213 | 54.1 | 4 | FALSE | 0.1 |
| | | **Average** | **29.1** | **5.53** | **168.95** | **42.9** | **3.27** | | **0.1** |


Iatt Creek 101303
IC3: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
27.4
27.2
27
26.8
26.6
26.4
26.2
26
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC3: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pH
7.52
7.5
7.48
7.46
7.44
7.42
7.4
7.38
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
Date/Time
DO mg/L
pH Units


Iatt Creek 101303
IC3: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.68
0.67
0.66
0.65
0.64
0.63
0.62
0.61
0.6
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC3 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 26.1 | 7.4 | 0.611 | 52.3 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 26.1 | 7.4 | 0.611 | 51.9 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 26.1 | 7.4 | 0.612 | 51.9 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 26.2 | 7.4 | 0.612 | 51.4 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 26.2 | 7.4 | 0.612 | 51.4 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 14:30 | 7/13/2004 14:30 | 26.3 | 7.4 | 0.614 | 51.8 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 14:45 | 7/13/2004 14:45 | 26.3 | 7.4 | 0.614 | 51.8 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 15:00 | 7/13/2004 15:00 | 26.3 | 7.4 | 0.614 | 51.6 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 15:15 | 7/13/2004 15:15 | 26.4 | 7.4 | 0.615 | 52 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 15:30 | 7/13/2004 15:30 | 26.4 | 7.4 | 0.614 | 52.1 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 15:45 | 7/13/2004 15:45 | 26.4 | 7.4 | 0.614 | 52.1 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 16:00 | 7/13/2004 16:00 | 26.4 | 7.4 | 0.614 | 51.8 | 4.2 | FALSE | 0.3 |
| 7/13/2004 | 16:15 | 7/13/2004 16:15 | 26.4 | 7.4 | 0.614 | 51.5 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 16:30 | 7/13/2004 16:30 | 26.4 | 7.4 | 0.614 | 51.2 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 16:45 | 7/13/2004 16:45 | 26.4 | 7.4 | 0.614 | 50.8 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 26.4 | 7.4 | 0.614 | 51 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 26.4 | 7.4 | 0.614 | 51.3 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 17:30 | 7/13/2004 17:30 | 26.5 | 7.4 | 0.614 | 51 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 17:45 | 7/13/2004 17:45 | 26.5 | 7.4 | 0.614 | 51 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 26.5 | 7.4 | 0.614 | 50.7 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 18:15 | 7/13/2004 18:15 | 26.5 | 7.4 | 0.614 | 50.5 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 26.5 | 7.4 | 0.613 | 50.7 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 26.5 | 7.4 | 0.614 | 50.6 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 26.5 | 7.4 | 0.613 | 50.3 | 4 | FALSE | 0.3 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 26.5 | 7.4 | 0.613 | 50.4 | 4 | FALSE | 0.3 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 26.6 | 7.4 | 0.613 | 50.7 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 26.6 | 7.4 | 0.613 | 50.9 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 26.6 | 7.4 | 0.613 | 51 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 26.6 | 7.4 | 0.613 | 50.4 | 4 | FALSE | 0.3 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 26.6 | 7.4 | 0.613 | 50.8 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 26.6 | 7.4 | 0.613 | 50.5 | 4 | FALSE | 0.3 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 26.6 | 7.4 | 0.613 | 50.7 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 26.6 | 7.4 | 0.613 | 50.8 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 26.6 | 7.4 | 0.613 | 50.7 | 4.1 | FALSE | 0.3 |
| 7/13/2004 | 21:45 | 7/13/2004 21:45 | 26.6 | 7.4 | 0.613 | 50.2 | 4 | FALSE | 0.3 |
| 7/13/2004 | 22:00 | 7/13/2004 22:00 | 26.6 | 7.4 | 0.613 | 50.5 | 4 | FALSE | 0.3 |
| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 26.6 | 7.4 | 0.613 | 50.5 | 4 | FALSE | 0.3 |
| 7/13/2004 | 22:30 | 7/13/2004 22:30 | 26.6 | 7.5 | 0.614 | 49.9 | 4 | FALSE | 0.3 |
| 7/13/2004 | 22:45 | 7/13/2004 22:45 | 26.6 | 7.4 | 0.613 | 50 | 4 | FALSE | 0.3 |
| 7/13/2004 | 23:00 | 7/13/2004 23:00 | 26.6 | 7.5 | 0.614 | 50 | 4 | FALSE | 0.3 |
| 7/13/2004 | 23:15 | 7/13/2004 23:15 | 26.6 | 7.5 | 0.614 | 49.7 | 4 | FALSE | 0.3 |
| 7/13/2004 | 23:30 | 7/13/2004 23:30 | 26.6 | 7.5 | 0.615 | 49.9 | 4 | FALSE | 0.3 |
| 7/13/2004 | 23:45 | 7/13/2004 23:45 | 26.6 | 7.5 | 0.615 | 49.8 | 4 | FALSE | 0.3 |
| 7/14/2004 | 0:00 | 7/14/2004 00:00 | 26.6 | 7.5 | 0.615 | 49.7 | 4 | FALSE | 0.3 |
| 7/14/2004 | 0:15 | 7/14/2004 00:15 | 26.6 | 7.5 | 0.615 | 50 | 4 | FALSE | 0.3 |
| 7/14/2004 | 0:30 | 7/14/2004 00:30 | 26.6 | 7.5 | 0.615 | 49.5 | 4 | FALSE | 0.3 |
| 7/14/2004 | 0:45 | 7/14/2004 00:45 | 26.6 | 7.5 | 0.616 | 49.5 | 4 | FALSE | 0.3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 1:00 | 7/14/2004 01:00 | 26.6 | 7.5 | 0.616 | 49.2 | 3.9 | FALSE | 0.3 |
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| 7/14/2004 | 5:15 | 7/14/2004 05:15 | 26.5 | 7.5 | 0.628 | 47.1 | 3.8 | FALSE | 0.3 |
| 7/14/2004 | 5:30 | 7/14/2004 05:30 | 26.4 | 7.5 | 0.629 | 47.8 | 3.8 | FALSE | 0.3 |
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| 7/14/2004 | 6:00 | 7/14/2004 06:00 | 26.4 | 7.5 | 0.63 | 47.2 | 3.8 | FALSE | 0.3 |
| 7/14/2004 | 6:15 | 7/14/2004 06:15 | 26.4 | 7.5 | 0.63 | 47.1 | 3.8 | FALSE | 0.3 |
| 7/14/2004 | 6:30 | 7/14/2004 06:30 | 26.4 | 7.5 | 0.632 | 47.1 | 3.8 | FALSE | 0.3 |
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| 7/14/2004 | 7:30 | 7/14/2004 07:30 | 26.3 | 7.5 | 0.634 | 45.8 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 9:00 | 7/14/2004 09:00 | 26.3 | 7.4 | 0.637 | 45.6 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 10:00 | 7/14/2004 10:00 | 26.3 | 7.4 | 0.639 | 45.6 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 10:15 | 7/14/2004 10:15 | 26.4 | 7.4 | 0.639 | 46 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 10:45 | 7/14/2004 10:45 | 26.4 | 7.4 | 0.64 | 45.8 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 11:00 | 7/14/2004 11:00 | 26.4 | 7.4 | 0.64 | 45.9 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 11:45 | 7/14/2004 11:45 | 26.5 | 7.4 | 0.641 | 45.7 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 12:00 | 7/14/2004 12:00 | 26.6 | 7.4 | 0.642 | 46.1 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 12:15 | 7/14/2004 12:15 | 26.6 | 7.4 | 0.642 | 46 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 13:00 | 7/14/2004 13:00 | 26.7 | 7.4 | 0.642 | 46.5 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 13:15 | 7/14/2004 13:15 | 26.7 | 7.4 | 0.643 | 46.3 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 13:30 | 7/14/2004 13:30 | 26.8 | 7.4 | 0.643 | 45.8 | 3.7 | FALSE | 0.3 |
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| 7/14/2004 | 14:00 | 7/14/2004 14:00 | 26.8 | 7.4 | 0.643 | 45.9 | 3.7 | FALSE | 0.3 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
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| 7/14/2004 | 14:45 | 7/14/2004 | 14:45 | 26.8 | 7.4 | 0.644 | 46.2 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 15:00 | 7/14/2004 | 15:00 | 26.9 | 7.4 | 0.644 | 45.8 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 15:15 | 7/14/2004 | 15:15 | 26.9 | 7.4 | 0.644 | 46.2 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 15:30 | 7/14/2004 | 15:30 | 26.9 | 7.4 | 0.643 | 46.2 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 15:45 | 7/14/2004 | 15:45 | 27 | 7.4 | 0.643 | 46.1 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 27 | 7.4 | 0.643 | 46 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 16:15 | 7/14/2004 | 16:15 | 27 | 7.4 | 0.643 | 46.1 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 16:30 | 7/14/2004 | 16:30 | 27.1 | 7.4 | 0.643 | 45.8 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 27.1 | 7.4 | 0.643 | 46.4 | 3.7 | FALSE | 0.3 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 27.1 | 7.4 | 0.643 | 45.9 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 17:15 | 7/14/2004 | 17:15 | 27.1 | 7.4 | 0.643 | 45.8 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 17:30 | 7/14/2004 | 17:30 | 27.1 | 7.4 | 0.643 | 45.5 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 17:45 | 7/14/2004 | 17:45 | 27.1 | 7.4 | 0.642 | 45.5 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 27.1 | 7.4 | 0.641 | 45.3 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 18:15 | 7/14/2004 | 18:15 | 27.1 | 7.4 | 0.641 | 45.4 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 18:30 | 7/14/2004 | 18:30 | 27.1 | 7.4 | 0.641 | 45.2 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 18:45 | 7/14/2004 | 18:45 | 27.1 | 7.4 | 0.64 | 45.4 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 27.1 | 7.4 | 0.639 | 45.2 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 19:15 | 7/14/2004 | 19:15 | 27.1 | 7.4 | 0.639 | 44.8 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 19:30 | 7/14/2004 | 19:30 | 27.1 | 7.4 | 0.638 | 45.3 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 27.1 | 7.4 | 0.638 | 45.2 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 27.1 | 7.4 | 0.637 | 45.2 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 20:15 | 7/14/2004 | 20:15 | 27.1 | 7.4 | 0.637 | 44.4 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 27.1 | 7.4 | 0.637 | 45.1 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 20:45 | 7/14/2004 | 20:45 | 27.1 | 7.4 | 0.637 | 45.4 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 21:00 | 7/14/2004 | 21:00 | 27.1 | 7.4 | 0.637 | 44.8 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 21:15 | 7/14/2004 | 21:15 | 27.1 | 7.4 | 0.637 | 44.7 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 21:30 | 7/14/2004 | 21:30 | 27 | 7.4 | 0.637 | 44.8 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 21:45 | 7/14/2004 | 21:45 | 27 | 7.4 | 0.637 | 44 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 22:00 | 7/14/2004 | 22:00 | 27 | 7.4 | 0.638 | 44.5 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 22:15 | 7/14/2004 | 22:15 | 27 | 7.5 | 0.639 | 44.6 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 22:30 | 7/14/2004 | 22:30 | 27 | 7.4 | 0.639 | 44.2 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 27 | 7.5 | 0.639 | 44.2 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 23:00 | 7/14/2004 | 23:00 | 27 | 7.5 | 0.64 | 44.6 | 3.6 | FALSE | 0.3 |
| 7/14/2004 | 23:15 | 7/14/2004 | 23:15 | 26.9 | 7.5 | 0.64 | 44.3 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 23:30 | 7/14/2004 | 23:30 | 26.9 | 7.5 | 0.641 | 44.5 | 3.5 | FALSE | 0.3 |
| 7/14/2004 | 23:45 | 7/14/2004 | 23:45 | 26.9 | 7.5 | 0.642 | 44.2 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 0:00 | 7/15/2004 | 00:00 | 26.9 | 7.5 | 0.642 | 45.2 | 3.6 | FALSE | 0.3 |
| 7/15/2004 | 0:15 | 7/15/2004 | 00:15 | 26.9 | 7.5 | 0.643 | 44.6 | 3.6 | FALSE | 0.3 |
| 7/15/2004 | 0:30 | 7/15/2004 | 00:30 | 26.9 | 7.5 | 0.643 | 44.9 | 3.6 | FALSE | 0.3 |
| 7/15/2004 | 0:45 | 7/15/2004 | 00:45 | 26.9 | 7.5 | 0.644 | 44.6 | 3.6 | FALSE | 0.3 |
| 7/15/2004 | 1:00 | 7/15/2004 | 01:00 | 26.9 | 7.5 | 0.645 | 44.1 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 1:15 | 7/15/2004 | 01:15 | 26.8 | 7.5 | 0.645 | 43.9 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 1:30 | 7/15/2004 | 01:30 | 26.8 | 7.5 | 0.646 | 44.2 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 1:45 | 7/15/2004 | 01:45 | 26.8 | 7.5 | 0.646 | 44.3 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 2:00 | 7/15/2004 | 02:00 | 26.8 | 7.5 | 0.646 | 43.9 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 2:15 | 7/15/2004 | 02:15 | 26.8 | 7.5 | 0.647 | 44.1 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 2:30 | 7/15/2004 | 02:30 | 26.8 | 7.5 | 0.647 | 43.6 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 2:45 | 7/15/2004 | 02:45 | 26.7 | 7.5 | 0.648 | 44 | 3.5 | FALSE | 0.3 |
| 7/15/2004 | 3:00 | 7/15/2004 | 03:00 | 26.7 | 7.5 | 0.649 | 43.8 | 3.5 | FALSE | 0.3 |
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| | | | | | | | | | |
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| 7/15/2004 | 3:30 | 7/15/2004 03:30 | 26.7 | 7.5 | 0.65 | 43 | 3.4 | FALSE | 0.3 |
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| 7/15/2004 | 4:00 | 7/15/2004 04:00 | 26.6 | 7.5 | 0.651 | 43 | 3.4 | FALSE | 0.3 |
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| 7/15/2004 | 5:15 | 7/15/2004 05:15 | 26.5 | 7.5 | 0.656 | 42.8 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 5:30 | 7/15/2004 05:30 | 26.5 | 7.5 | 0.657 | 42.7 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 5:45 | 7/15/2004 05:45 | 26.4 | 7.5 | 0.658 | 42.5 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 6:00 | 7/15/2004 06:00 | 26.4 | 7.5 | 0.659 | 41.8 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 6:15 | 7/15/2004 06:15 | 26.4 | 7.5 | 0.66 | 42.4 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 6:30 | 7/15/2004 06:30 | 26.4 | 7.5 | 0.662 | 42.4 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 6:45 | 7/15/2004 06:45 | 26.3 | 7.5 | 0.662 | 42.2 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 7:00 | 7/15/2004 07:00 | 26.3 | 7.5 | 0.663 | 41.5 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 7:15 | 7/15/2004 07:15 | 26.3 | 7.5 | 0.664 | 41.2 | 3.3 | FALSE | 0.3 |
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| 7/15/2004 | 7:45 | 7/15/2004 07:45 | 26.2 | 7.5 | 0.665 | 41.6 | 3.4 | FALSE | 0.3 |
| 7/15/2004 | 8:00 | 7/15/2004 08:00 | 26.2 | 7.5 | 0.666 | 41.6 | 3.4 | FALSE | 0.3 |
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| 7/15/2004 | 9:15 | 7/15/2004 09:15 | 26.3 | 7.5 | 0.669 | 40.5 | 3.3 | FALSE | 0.3 |
| 7/15/2004 | 9:30 | 7/15/2004 09:30 | 26.3 | 7.5 | 0.669 | 40.2 | 3.2 | FALSE | 0.3 |
| 7/15/2004 | 9:45 | 7/15/2004 09:45 | 26.4 | 7.5 | 0.669 | 40.4 | 3.3 | FALSE | 0.3 |
| 7/15/2004 | 10:00 | 7/15/2004 10:00 | 26.4 | 7.5 | 0.67 | 39.9 | 3.2 | FALSE | 0.3 |
| 7/15/2004 | 10:15 | 7/15/2004 10:15 | 26.4 | 7.5 | 0.671 | 40.5 | 3.3 | FALSE | 0.4 |
| 7/15/2004 | 10:30 | 7/15/2004 10:30 | 26.5 | 7.5 | 0.671 | 41 | 3.3 | FALSE | 0.4 |
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| 7/15/2004 | 11:00 | 7/15/2004 11:00 | 26.5 | 7.5 | 0.672 | 40.9 | 3.3 | FALSE | 0.4 |
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| 7/15/2004 | 12:00 | 7/15/2004 12:00 | 26.7 | 7.5 | 0.673 | 40.2 | 3.2 | FALSE | 0.4 |
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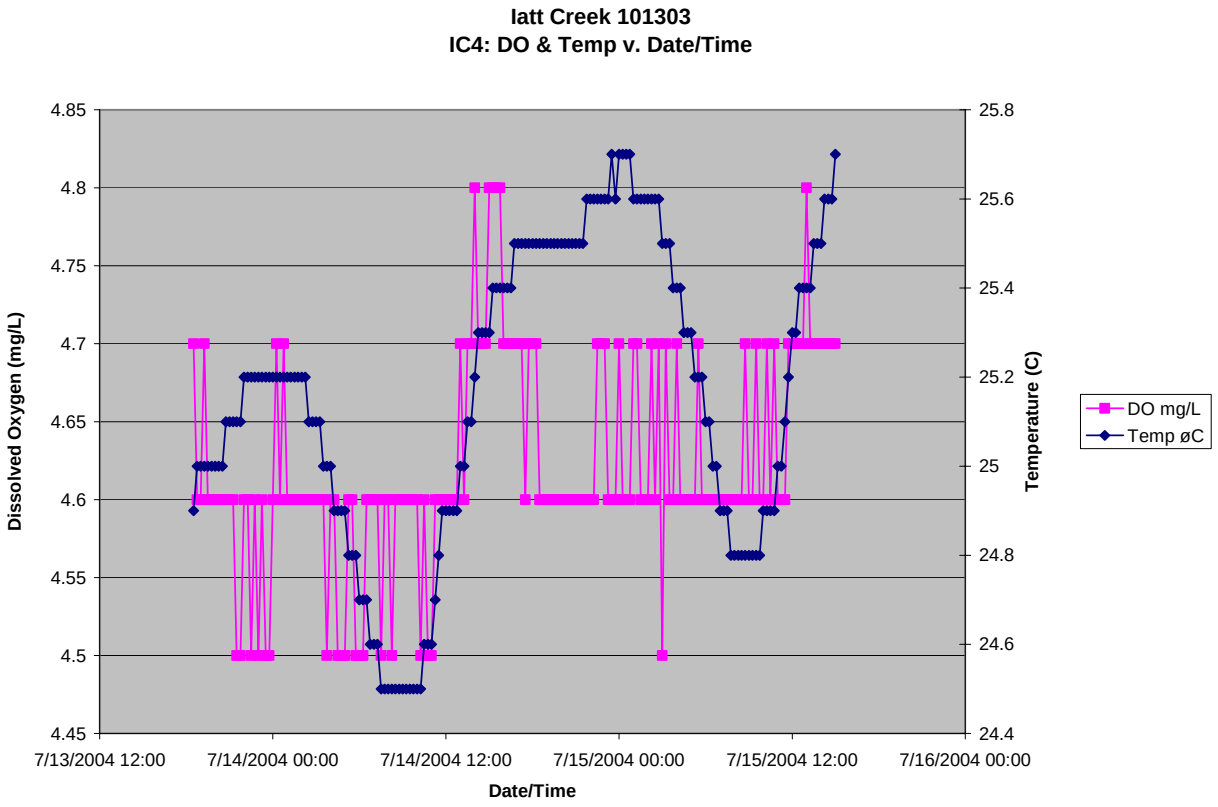
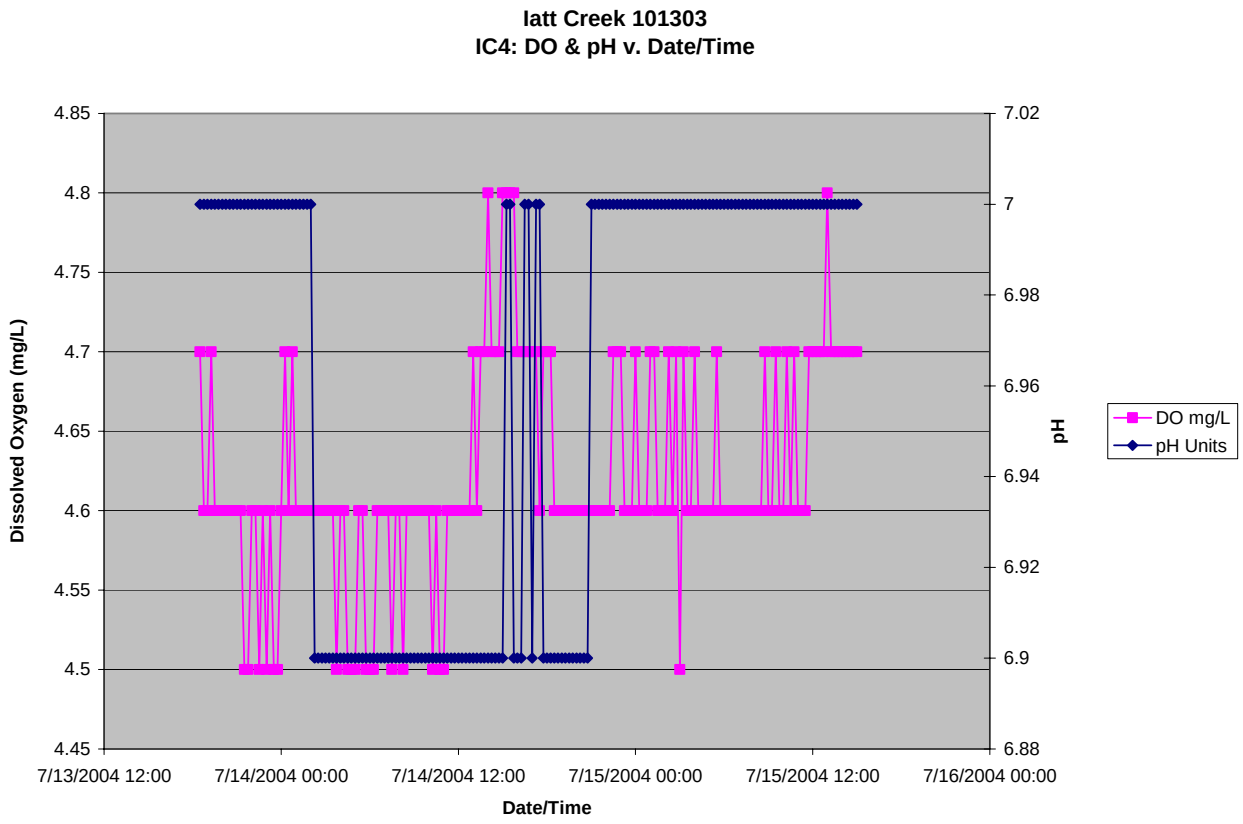
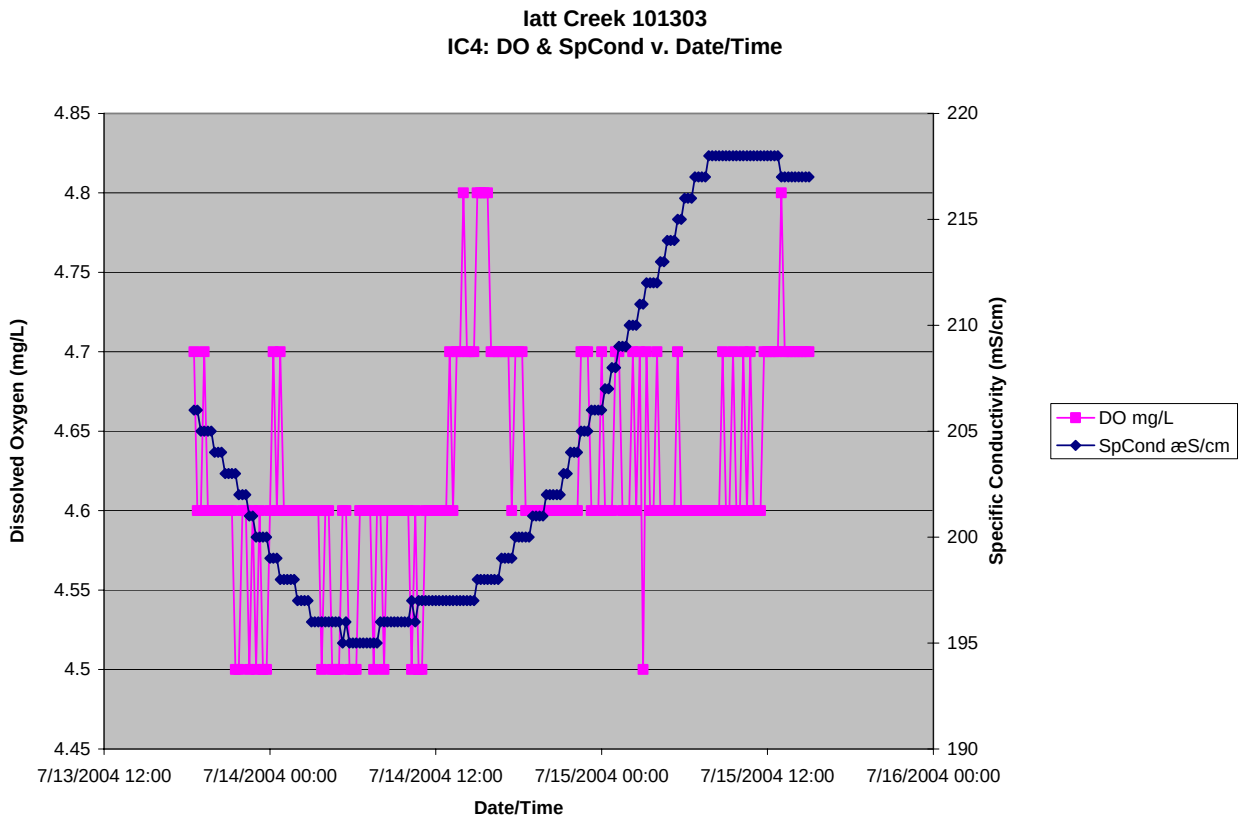
| | | **Average** | **26.6** | **7.45** | **0.6382** | **46** | **3.69** | | **0.309548** |


Iatt Creek 101303
IC4: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
4.85
4.8
4.75
4.7
4.65
4.6
4.55
4.5
4.45
25.8
25.6
25.4
25.2
25
24.8
24.6
24.4
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC4: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
4.85
4.8
4.75
4.7
4.65
4.6
4.55
4.5
4.45
pH
7.02
7
6.98
6.96
6.94
6.92
6.9
6.88
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
Date/Time
DO mg/L
pH Units


Iatt Creek 101303
IC4: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
4.85
4.8
4.75
4.7
4.65
4.6
4.55
4.5
4.45
220
215
210
205
200
195
190
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC4 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 24.9 | 7 | 206 | 56.6 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 25 | 7 | 206 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 25 | 7 | 205 | 55.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 25 | 7 | 205 | 56.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 25 | 7 | 205 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 25 | 7 | 205 | 56 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 25 | 7 | 204 | 56 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 25 | 7 | 204 | 56 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 25 | 7 | 204 | 55.3 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 25.1 | 7 | 203 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 25.1 | 7 | 203 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 25.1 | 7 | 203 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 25.1 | 7 | 203 | 55 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 21:45 | 7/13/2004 21:45 | 25.1 | 7 | 202 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 22:00 | 7/13/2004 22:00 | 25.2 | 7 | 202 | 56.1 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 25.2 | 7 | 202 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 22:30 | 7/13/2004 22:30 | 25.2 | 7 | 201 | 55.1 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 22:45 | 7/13/2004 22:45 | 25.2 | 7 | 201 | 56.2 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 23:00 | 7/13/2004 23:00 | 25.2 | 7 | 200 | 54.8 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 23:15 | 7/13/2004 23:15 | 25.2 | 7 | 200 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 23:30 | 7/13/2004 23:30 | 25.2 | 7 | 200 | 55.1 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 23:45 | 7/13/2004 23:45 | 25.2 | 7 | 200 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 0:00 | 7/14/2004 00:00 | 25.2 | 7 | 199 | 56.1 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 0:15 | 7/14/2004 00:15 | 25.2 | 7 | 199 | 56.6 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 0:30 | 7/14/2004 00:30 | 25.2 | 7 | 199 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 0:45 | 7/14/2004 00:45 | 25.2 | 7 | 198 | 56.5 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 1:00 | 7/14/2004 01:00 | 25.2 | 7 | 198 | 55.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 1:15 | 7/14/2004 01:15 | 25.2 | 7 | 198 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 1:30 | 7/14/2004 01:30 | 25.2 | 7 | 198 | 55.7 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 1:45 | 7/14/2004 01:45 | 25.2 | 7 | 198 | 55.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 2:00 | 7/14/2004 02:00 | 25.2 | 7 | 197 | 55.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 2:15 | 7/14/2004 02:15 | 25.2 | 6.9 | 197 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 2:30 | 7/14/2004 02:30 | 25.1 | 6.9 | 197 | 56 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 2:45 | 7/14/2004 02:45 | 25.1 | 6.9 | 197 | 55.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 3:00 | 7/14/2004 03:00 | 25.1 | 6.9 | 196 | 55.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 3:15 | 7/14/2004 03:15 | 25.1 | 6.9 | 196 | 56.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 3:30 | 7/14/2004 03:30 | 25 | 6.9 | 196 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 3:45 | 7/14/2004 03:45 | 25 | 6.9 | 196 | 54.8 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 4:00 | 7/14/2004 04:00 | 25 | 6.9 | 196 | 55.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 4:15 | 7/14/2004 04:15 | 24.9 | 6.9 | 196 | 55.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 4:30 | 7/14/2004 04:30 | 24.9 | 6.9 | 196 | 54.5 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 4:45 | 7/14/2004 04:45 | 24.9 | 6.9 | 196 | 54.8 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 5:00 | 7/14/2004 05:00 | 24.9 | 6.9 | 196 | 54.7 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 5:15 | 7/14/2004 05:15 | 24.8 | 6.9 | 195 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 5:30 | 7/14/2004 05:30 | 24.8 | 6.9 | 196 | 55.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 5:45 | 7/14/2004 05:45 | 24.8 | 6.9 | 195 | 54.5 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 6:00 | 7/14/2004 06:00 | 24.7 | 6.9 | 195 | 54.5 | 4.5 | FALSE | 0.1 |

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|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 6:15 | 7/14/2004 | 06:15 | 24.7 | 6.9 | 195 | 54.6 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 6:30 | 7/14/2004 | 06:30 | 24.7 | 6.9 | 195 | 55 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 6:45 | 7/14/2004 | 06:45 | 24.6 | 6.9 | 195 | 55.1 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 7:00 | 7/14/2004 | 07:00 | 24.6 | 6.9 | 195 | 55 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 7:15 | 7/14/2004 | 07:15 | 24.6 | 6.9 | 195 | 54.9 | 4.6 | FALSE | 0.1 |
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| 7/14/2004 | 8:00 | 7/14/2004 | 08:00 | 24.5 | 6.9 | 196 | 54.8 | 4.6 | FALSE | 0.1 |
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| 7/14/2004 | 9:45 | 7/14/2004 | 09:45 | 24.5 | 6.9 | 196 | 54.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 10:00 | 7/14/2004 | 10:00 | 24.5 | 6.9 | 196 | 54.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 10:15 | 7/14/2004 | 10:15 | 24.5 | 6.9 | 197 | 54.4 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 10:30 | 7/14/2004 | 10:30 | 24.6 | 6.9 | 196 | 55.7 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 10:45 | 7/14/2004 | 10:45 | 24.6 | 6.9 | 197 | 54.6 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 11:00 | 7/14/2004 | 11:00 | 24.6 | 6.9 | 197 | 54.7 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 11:15 | 7/14/2004 | 11:15 | 24.7 | 6.9 | 197 | 55.3 | 4.6 | FALSE | 0.1 |
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| 7/14/2004 | 15:15 | 7/14/2004 | 15:15 | 25.4 | 7 | 198 | 58.3 | 4.8 | FALSE | 0.1 |
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| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 25.5 | 6.9 | 200 | 57 | 4.7 | FALSE | 0.1 |
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| 7/14/2004 | 18:30 | 7/14/2004 | 18:30 | 25.5 | 6.9 | 200 | 56.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 18:45 | 7/14/2004 | 18:45 | 25.5 | 6.9 | 200 | 56.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 25.5 | 6.9 | 201 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 19:15 | 7/14/2004 | 19:15 | 25.5 | 6.9 | 201 | 56 | 4.6 | FALSE | 0.1 |

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| 7/14/2004 | 19:30 | 7/14/2004 | 19:30 | 25.5 | 6.9 | 201 | 55.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 25.5 | 6.9 | 201 | 56.7 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 25.5 | 6.9 | 202 | 56.2 | 4.6 | FALSE | 0.1 |
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| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 25.5 | 6.9 | 202 | 56.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 20:45 | 7/14/2004 | 20:45 | 25.5 | 6.9 | 202 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 21:00 | 7/14/2004 | 21:00 | 25.5 | 7 | 202 | 55.7 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 21:15 | 7/14/2004 | 21:15 | 25.5 | 7 | 203 | 56.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 21:30 | 7/14/2004 | 21:30 | 25.5 | 7 | 203 | 56.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 21:45 | 7/14/2004 | 21:45 | 25.6 | 7 | 204 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 22:00 | 7/14/2004 | 22:00 | 25.6 | 7 | 204 | 56.1 | 4.6 | FALSE | 0.1 |
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| 7/14/2004 | 22:30 | 7/14/2004 | 22:30 | 25.6 | 7 | 205 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 25.6 | 7 | 205 | 56.9 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 23:00 | 7/14/2004 | 23:00 | 25.6 | 7 | 205 | 57 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 23:15 | 7/14/2004 | 23:15 | 25.6 | 7 | 206 | 56.3 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 23:30 | 7/14/2004 | 23:30 | 25.7 | 7 | 206 | 56.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 23:45 | 7/14/2004 | 23:45 | 25.6 | 7 | 206 | 56.4 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 0:00 | 7/15/2004 | 00:00 | 25.7 | 7 | 206 | 57.2 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 0:15 | 7/15/2004 | 00:15 | 25.7 | 7 | 207 | 56.5 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 0:30 | 7/15/2004 | 00:30 | 25.7 | 7 | 207 | 56.9 | 4.6 | FALSE | 0.1 |
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| 7/15/2004 | 1:00 | 7/15/2004 | 01:00 | 25.6 | 7 | 208 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 1:15 | 7/15/2004 | 01:15 | 25.6 | 7 | 209 | 57.1 | 4.7 | FALSE | 0.1 |
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| 7/15/2004 | 1:45 | 7/15/2004 | 01:45 | 25.6 | 7 | 209 | 56.5 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 2:00 | 7/15/2004 | 02:00 | 25.6 | 7 | 210 | 56.5 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 2:15 | 7/15/2004 | 02:15 | 25.6 | 7 | 210 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 2:30 | 7/15/2004 | 02:30 | 25.6 | 7 | 210 | 56.2 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 2:45 | 7/15/2004 | 02:45 | 25.6 | 7 | 211 | 56.9 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 3:00 | 7/15/2004 | 03:00 | 25.5 | 7 | 211 | 55.6 | 4.5 | FALSE | 0.1 |
| 7/15/2004 | 3:15 | 7/15/2004 | 03:15 | 25.5 | 7 | 212 | 56.9 | 4.7 | FALSE | 0.1 |
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| 7/15/2004 | 4:15 | 7/15/2004 | 04:15 | 25.4 | 7 | 213 | 56.4 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 4:30 | 7/15/2004 | 04:30 | 25.3 | 7 | 213 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 4:45 | 7/15/2004 | 04:45 | 25.3 | 7 | 214 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 5:00 | 7/15/2004 | 05:00 | 25.3 | 7 | 214 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 5:15 | 7/15/2004 | 05:15 | 25.2 | 7 | 214 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 5:30 | 7/15/2004 | 05:30 | 25.2 | 7 | 215 | 56.5 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 5:45 | 7/15/2004 | 05:45 | 25.2 | 7 | 215 | 55.9 | 4.6 | FALSE | 0.1 |
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| 7/15/2004 | 7:45 | 7/15/2004 | 07:45 | 24.8 | 7 | 218 | 55.4 | 4.6 | FALSE | 0.1 |
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| 7/15/2004 | 8:30 | 7/15/2004 | 08:30 | 24.8 | 7 | 218 | 55.9 | 4.6 | FALSE | 0.1 |

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| 7/15/2004 | 8:45 | 7/15/2004 08:45 | 24.8 | 7 | 218 | 56.2 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 9:00 | 7/15/2004 09:00 | 24.8 | 7 | 218 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 9:15 | 7/15/2004 09:15 | 24.8 | 7 | 218 | 56 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 9:30 | 7/15/2004 09:30 | 24.8 | 7 | 218 | 56.7 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 9:45 | 7/15/2004 09:45 | 24.8 | 7 | 218 | 55.8 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 10:00 | 7/15/2004 10:00 | 24.9 | 7 | 218 | 55.9 | 4.6 | FALSE | 0.1 |
| 7/15/2004 | 10:15 | 7/15/2004 10:15 | 24.9 | 7 | 218 | 56.3 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 10:30 | 7/15/2004 10:30 | 24.9 | 7 | 218 | 56 | 4.6 | FALSE | 0.1 |
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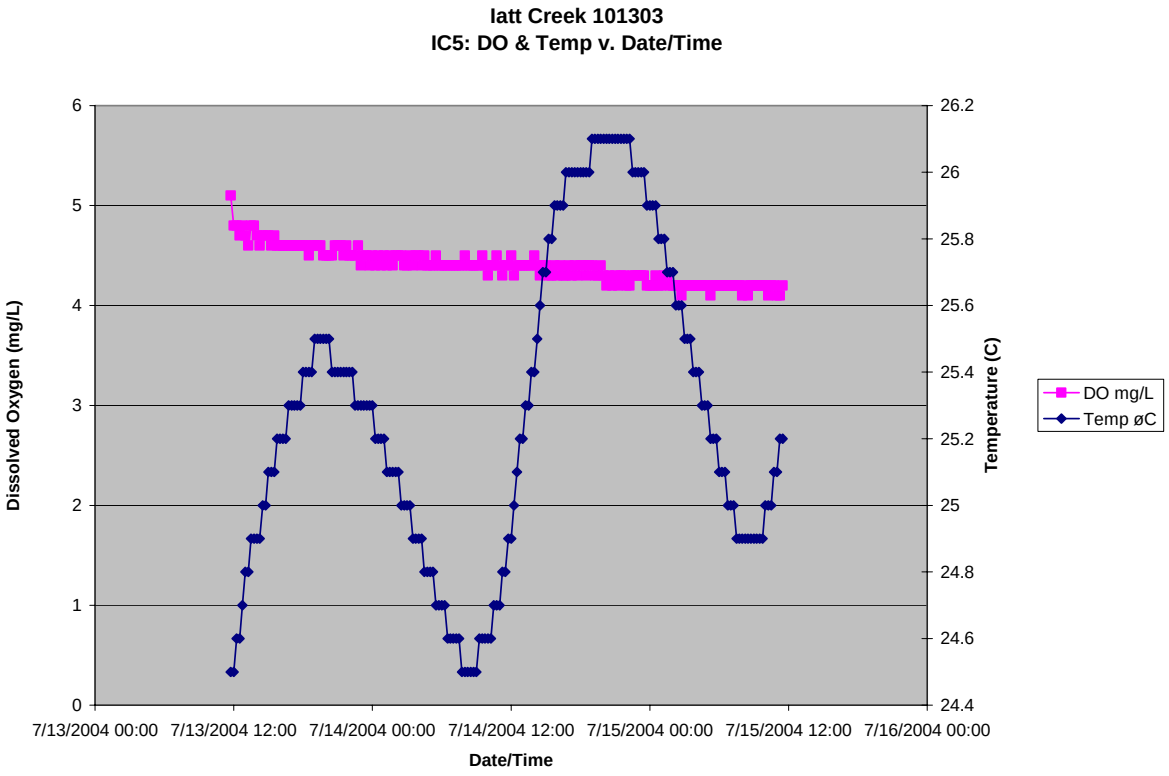
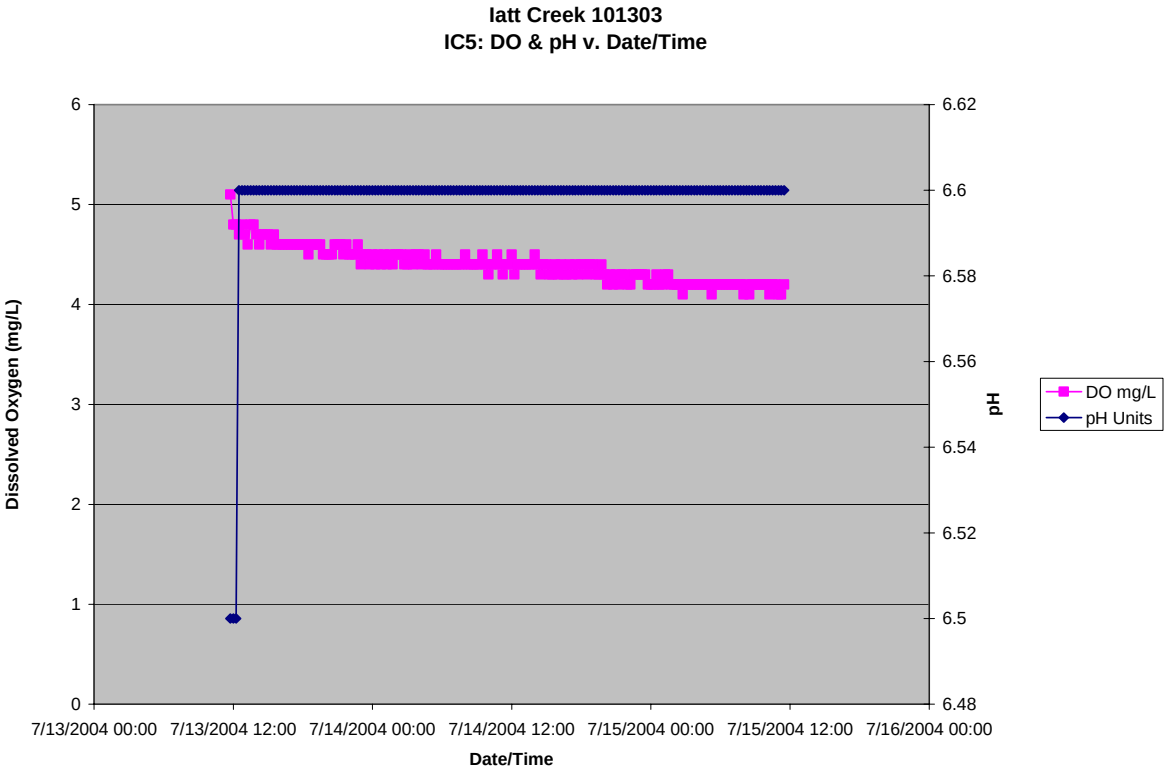
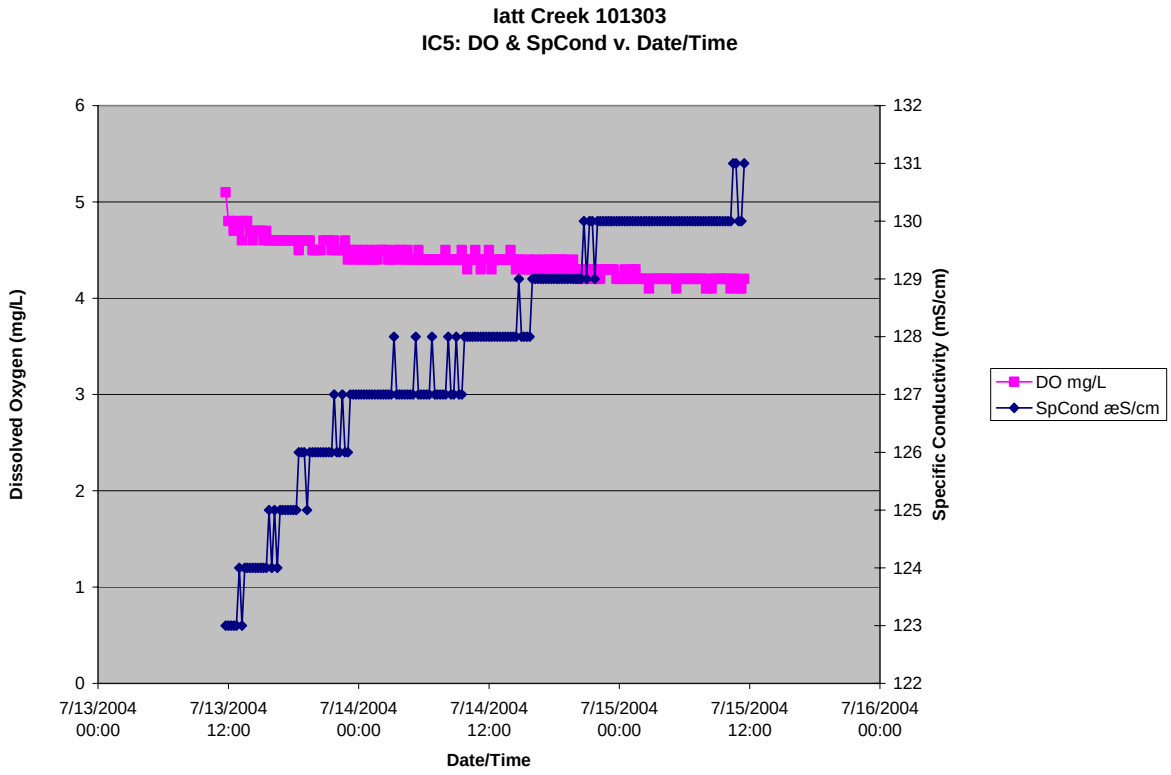
| 7/15/2004 | 12:30 | 7/15/2004 12:30 | 25.4 | 7 | 218 | 57.8 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 12:45 | 7/15/2004 12:45 | 25.4 | 7 | 218 | 57 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 13:00 | 7/15/2004 13:00 | 25.4 | 7 | 217 | 58 | 4.8 | FALSE | 0.1 |
| 7/15/2004 | 13:15 | 7/15/2004 13:15 | 25.4 | 7 | 217 | 57.6 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 13:30 | 7/15/2004 13:30 | 25.5 | 7 | 217 | 57.9 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 13:45 | 7/15/2004 13:45 | 25.5 | 7 | 217 | 57.7 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 14:00 | 7/15/2004 14:00 | 25.5 | 7 | 217 | 57.4 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 14:15 | 7/15/2004 14:15 | 25.6 | 7 | 217 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 14:30 | 7/15/2004 14:30 | 25.6 | 7 | 217 | 57.2 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 14:45 | 7/15/2004 14:45 | 25.6 | 7 | 217 | 57.4 | 4.7 | FALSE | 0.1 |
| 7/15/2004 | 15:00 | 7/15/2004 15:00 | 25.7 | 7 | 217 | 58 | 4.7 | FALSE | 0.1 |
| | | **Average** | **25.2** | **6.96** | **204.53** | **56.1** | **4.62** | | **0.1** |


Iatt Creek 101303
IC5: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
24.4
24.6
24.8
25
25.2
25.4
25.6
25.8
26
26.2
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC5: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
0
1
2
3
4
5
6
6.48
6.5
6.52
6.54
6.56
6.58
6.6
6.62
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
pH Units


Iatt Creek 101303
IC5: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
122
123
124
125
126
127
128
129
130
131
132
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC5 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | iBatt | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | Volts | True/False | ppt |
| 7/13/2004 | 11:45 | 7/13/2004 11:45 | 24.5 | 6.5 | 123 | 61 | 5.1 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 12:00 | 7/13/2004 12:00 | 24.5 | 6.5 | 123 | 57.3 | 4.8 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 12:15 | 7/13/2004 12:15 | 24.6 | 6.5 | 123 | 58.1 | 4.8 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 12:30 | 7/13/2004 12:30 | 24.6 | 6.6 | 123 | 56.7 | 4.7 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 12:45 | 7/13/2004 12:45 | 24.7 | 6.6 | 123 | 57.3 | 4.8 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 13:00 | 7/13/2004 13:00 | 24.8 | 6.6 | 124 | 56.7 | 4.7 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 24.8 | 6.6 | 123 | 56 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 24.9 | 6.6 | 124 | 57.4 | 4.8 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 24.9 | 6.6 | 124 | 57.4 | 4.8 | 11.1 | FALSE | 0.1 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 24.9 | 6.6 | 124 | 57.1 | 4.7 | 11 | FALSE | 0.1 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 24.9 | 6.6 | 124 | 55.9 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 14:30 | 7/13/2004 14:30 | 25 | 6.6 | 124 | 56.3 | 4.7 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 14:45 | 7/13/2004 14:45 | 25 | 6.6 | 124 | 56.7 | 4.7 | 11 | FALSE | 0.1 |
| 7/13/2004 | 15:00 | 7/13/2004 15:00 | 25.1 | 6.6 | 124 | 57 | 4.7 | 11 | FALSE | 0.1 |
| 7/13/2004 | 15:15 | 7/13/2004 15:15 | 25.1 | 6.6 | 124 | 56 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 15:30 | 7/13/2004 15:30 | 25.1 | 6.6 | 124 | 56.4 | 4.7 | 11 | FALSE | 0.1 |
| 7/13/2004 | 15:45 | 7/13/2004 15:45 | 25.2 | 6.6 | 125 | 56.3 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 16:00 | 7/13/2004 16:00 | 25.2 | 6.6 | 124 | 56.2 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 16:15 | 7/13/2004 16:15 | 25.2 | 6.6 | 125 | 56.4 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 16:30 | 7/13/2004 16:30 | 25.2 | 6.6 | 124 | 56 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 16:45 | 7/13/2004 16:45 | 25.3 | 6.6 | 125 | 56.4 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 25.3 | 6.6 | 125 | 55.6 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 25.3 | 6.6 | 125 | 55.4 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 17:30 | 7/13/2004 17:30 | 25.3 | 6.6 | 125 | 55.8 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 17:45 | 7/13/2004 17:45 | 25.3 | 6.6 | 125 | 56.6 | 4.6 | 11 | FALSE | 0.1 |
| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 25.4 | 6.6 | 125 | 56.1 | 4.6 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 18:15 | 7/13/2004 18:15 | 25.4 | 6.6 | 125 | 55.6 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 25.4 | 6.6 | 126 | 55.1 | 4.5 | 11 | FALSE | 0.1 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 25.4 | 6.6 | 126 | 56 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 25.5 | 6.6 | 126 | 56.2 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 25.5 | 6.6 | 125 | 55.7 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 25.5 | 6.6 | 126 | 55.6 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 25.5 | 6.6 | 126 | 54.9 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 25.5 | 6.6 | 126 | 55.4 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 25.5 | 6.6 | 126 | 55 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 25.4 | 6.6 | 126 | 54.6 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 25.4 | 6.6 | 126 | 55.6 | 4.6 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 25.4 | 6.6 | 126 | 55.8 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 25.4 | 6.6 | 126 | 55.8 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 25.4 | 6.6 | 126 | 55 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 21:45 | 7/13/2004 21:45 | 25.4 | 6.6 | 127 | 55.9 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 22:00 | 7/13/2004 22:00 | 25.4 | 6.6 | 126 | 54.5 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 25.4 | 6.6 | 126 | 54.5 | 4.5 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 22:30 | 7/13/2004 22:30 | 25.3 | 6.6 | 127 | 54.3 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 22:45 | 7/13/2004 22:45 | 25.3 | 6.6 | 126 | 55.4 | 4.6 | 10.9 | FALSE | 0.1 |
| 7/13/2004 | 23:00 | 7/13/2004 23:00 | 25.3 | 6.6 | 126 | 54 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 23:15 | 7/13/2004 23:15 | 25.3 | 6.6 | 127 | 55.3 | 4.5 | 10.8 | FALSE | 0.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7/13/2004 | 23:30 | 7/13/2004 23:30 | 25.3 | 6.6 | 127 | 54.2 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/13/2004 | 23:45 | 7/13/2004 23:45 | 25.3 | 6.6 | 127 | 54 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 0:00 | 7/14/2004 00:00 | 25.3 | 6.6 | 127 | 55.2 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 0:15 | 7/14/2004 00:15 | 25.2 | 6.6 | 127 | 53.9 | 4.4 | 10.9 | FALSE | 0.1 |
| 7/14/2004 | 0:30 | 7/14/2004 00:30 | 25.2 | 6.6 | 127 | 54.3 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 0:45 | 7/14/2004 00:45 | 25.2 | 6.6 | 127 | 54 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 1:00 | 7/14/2004 01:00 | 25.2 | 6.6 | 127 | 54.9 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 1:15 | 7/14/2004 01:15 | 25.1 | 6.6 | 127 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 1:30 | 7/14/2004 01:30 | 25.1 | 6.6 | 127 | 54.7 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 1:45 | 7/14/2004 01:45 | 25.1 | 6.6 | 127 | 53.4 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 2:00 | 7/14/2004 02:00 | 25.1 | 6.6 | 127 | 54.5 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 2:15 | 7/14/2004 02:15 | 25.1 | 6.6 | 127 | 54.4 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 2:30 | 7/14/2004 02:30 | 25 | 6.6 | 127 | 54.5 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 2:45 | 7/14/2004 02:45 | 25 | 6.6 | 127 | 53.4 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 3:00 | 7/14/2004 03:00 | 25 | 6.6 | 127 | 53 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 3:15 | 7/14/2004 03:15 | 25 | 6.6 | 128 | 54 | 4.5 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 4:15 | 7/14/2004 04:15 | 24.9 | 6.6 | 127 | 52.9 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 4:30 | 7/14/2004 04:30 | 24.8 | 6.6 | 127 | 54 | 4.5 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 6:30 | 7/14/2004 06:30 | 24.6 | 6.6 | 127 | 53.1 | 4.4 | 10.7 | FALSE | 0.1 |
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| 7/14/2004 | 7:30 | 7/14/2004 07:30 | 24.6 | 6.6 | 127 | 52.5 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 7:45 | 7/14/2004 07:45 | 24.5 | 6.6 | 127 | 52.5 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 8:00 | 7/14/2004 08:00 | 24.5 | 6.6 | 127 | 53.7 | 4.5 | 10.7 | FALSE | 0.1 |
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| 7/14/2004 | 8:30 | 7/14/2004 08:30 | 24.5 | 6.6 | 127 | 52.9 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 8:45 | 7/14/2004 08:45 | 24.5 | 6.6 | 127 | 53 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 9:00 | 7/14/2004 09:00 | 24.5 | 6.6 | 128 | 53.1 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 9:15 | 7/14/2004 09:15 | 24.6 | 6.6 | 127 | 52.4 | 4.4 | 10.7 | FALSE | 0.1 |
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| 7/14/2004 | 9:45 | 7/14/2004 09:45 | 24.6 | 6.6 | 128 | 53.2 | 4.4 | 10.7 | FALSE | 0.1 |
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| 7/14/2004 | 10:15 | 7/14/2004 10:15 | 24.6 | 6.6 | 128 | 53.4 | 4.4 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 11:00 | 7/14/2004 11:00 | 24.7 | 6.6 | 128 | 53.3 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 11:15 | 7/14/2004 11:15 | 24.8 | 6.6 | 128 | 52.3 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 11:30 | 7/14/2004 11:30 | 24.8 | 6.6 | 128 | 53.5 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 11:45 | 7/14/2004 11:45 | 24.9 | 6.6 | 128 | 53.6 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 12:00 | 7/14/2004 12:00 | 24.9 | 6.6 | 128 | 53.8 | 4.5 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 12:15 | 7/14/2004 12:15 | 25 | 6.6 | 128 | 52.6 | 4.3 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 12:30 | 7/14/2004 12:30 | 25.1 | 6.6 | 128 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 12:45 | 7/14/2004 | 12:45 | 25.2 | 6.6 | 128 | 53.6 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 13:00 | 7/14/2004 | 13:00 | 25.2 | 6.6 | 128 | 53.7 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 13:15 | 7/14/2004 | 13:15 | 25.3 | 6.6 | 128 | 53.1 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 13:30 | 7/14/2004 | 13:30 | 25.3 | 6.6 | 128 | 53.1 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 13:45 | 7/14/2004 | 13:45 | 25.4 | 6.6 | 128 | 53.3 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 14:00 | 7/14/2004 | 14:00 | 25.4 | 6.6 | 128 | 54.3 | 4.5 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 14:15 | 7/14/2004 | 14:15 | 25.5 | 6.6 | 128 | 54.3 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 14:30 | 7/14/2004 | 14:30 | 25.6 | 6.6 | 128 | 53.2 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 14:45 | 7/14/2004 | 14:45 | 25.7 | 6.6 | 129 | 54.3 | 4.4 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 15:15 | 7/14/2004 | 15:15 | 25.8 | 6.6 | 128 | 53 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 15:30 | 7/14/2004 | 15:30 | 25.8 | 6.6 | 128 | 53.1 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 15:45 | 7/14/2004 | 15:45 | 25.9 | 6.6 | 128 | 54.3 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 25.9 | 6.6 | 129 | 53.4 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 16:15 | 7/14/2004 | 16:15 | 25.9 | 6.6 | 129 | 54.2 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 16:30 | 7/14/2004 | 16:30 | 25.9 | 6.6 | 129 | 53.4 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 26 | 6.6 | 129 | 52.9 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 26 | 6.6 | 129 | 54.2 | 4.4 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 17:15 | 7/14/2004 | 17:15 | 26 | 6.6 | 129 | 52.9 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 17:30 | 7/14/2004 | 17:30 | 26 | 6.6 | 129 | 54 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 17:45 | 7/14/2004 | 17:45 | 26 | 6.6 | 129 | 52.8 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 26 | 6.6 | 129 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 18:15 | 7/14/2004 | 18:15 | 26 | 6.6 | 129 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 18:30 | 7/14/2004 | 18:30 | 26 | 6.6 | 129 | 52.8 | 4.3 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 26.1 | 6.6 | 129 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 19:15 | 7/14/2004 | 19:15 | 26.1 | 6.6 | 129 | 53.5 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 19:30 | 7/14/2004 | 19:30 | 26.1 | 6.6 | 129 | 52.6 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 26.1 | 6.6 | 129 | 53.8 | 4.4 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 26.1 | 6.6 | 129 | 53.6 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 20:15 | 7/14/2004 | 20:15 | 26.1 | 6.6 | 129 | 52.2 | 4.2 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 26.1 | 6.6 | 129 | 53.2 | 4.3 | 10.8 | FALSE | 0.1 |
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| 7/14/2004 | 21:30 | 7/14/2004 | 21:30 | 26.1 | 6.6 | 130 | 53.4 | 4.3 | 10.7 | FALSE | 0.1 |
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| 7/14/2004 | 22:15 | 7/14/2004 | 22:15 | 26.1 | 6.6 | 130 | 52 | 4.2 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 22:30 | 7/14/2004 | 22:30 | 26 | 6.6 | 130 | 52.7 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 26 | 6.6 | 130 | 52.4 | 4.3 | 10.7 | FALSE | 0.1 |
| 7/14/2004 | 23:00 | 7/14/2004 | 23:00 | 26 | 6.6 | 130 | 53.2 | 4.3 | 10.8 | FALSE | 0.1 |
| 7/14/2004 | 23:15 | 7/14/2004 | 23:15 | 26 | 6.6 | 130 | 53.4 | 4.3 | 10.8 | FALSE | 0.1 |
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| 7/15/2004 | 0:00 | 7/15/2004 | 00:00 | 25.9 | 6.6 | 130 | 51.8 | 4.2 | 10.8 | FALSE | 0.1 |
| 7/15/2004 | 0:15 | 7/15/2004 | 00:15 | 25.9 | 6.6 | 130 | 51.5 | 4.2 | 10.8 | FALSE | 0.1 |
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| | | | | | | | | | | |
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| 7/15/2004 | 8:00 | 7/15/2004 08:00 | 24.9 | 6.6 | 130 | 50 | 4.1 | 10.7 | FALSE | 0.1 |
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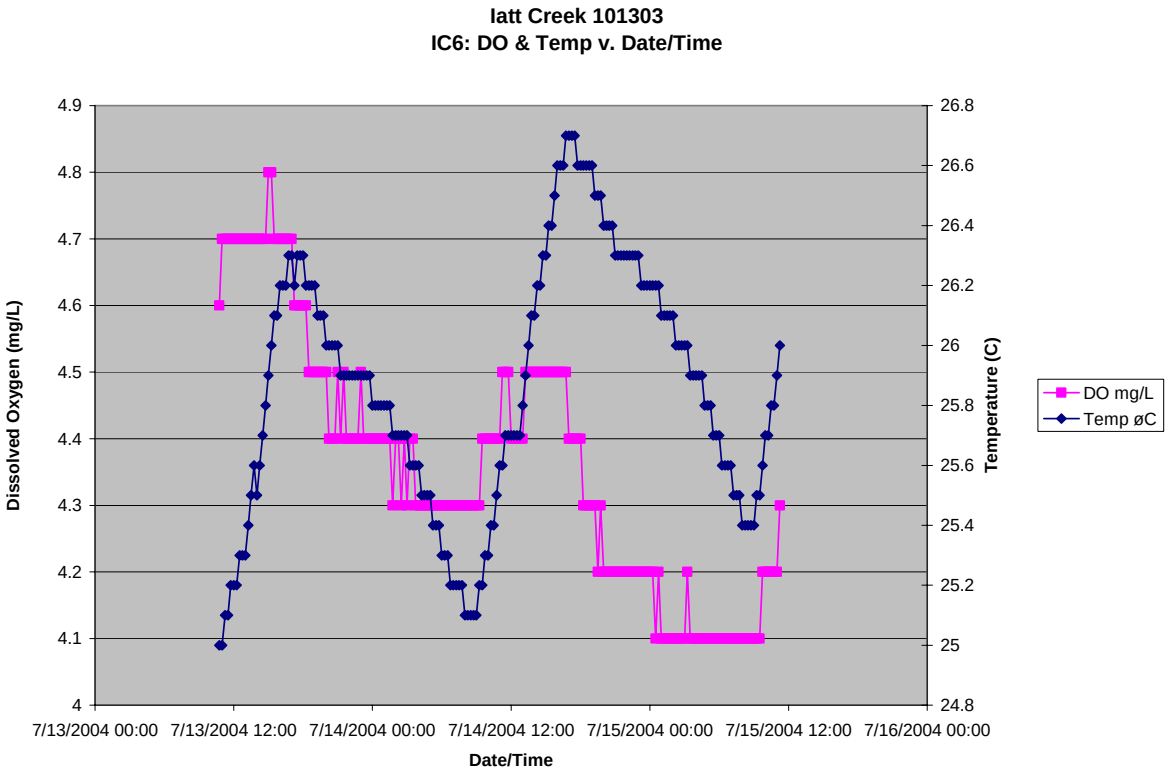
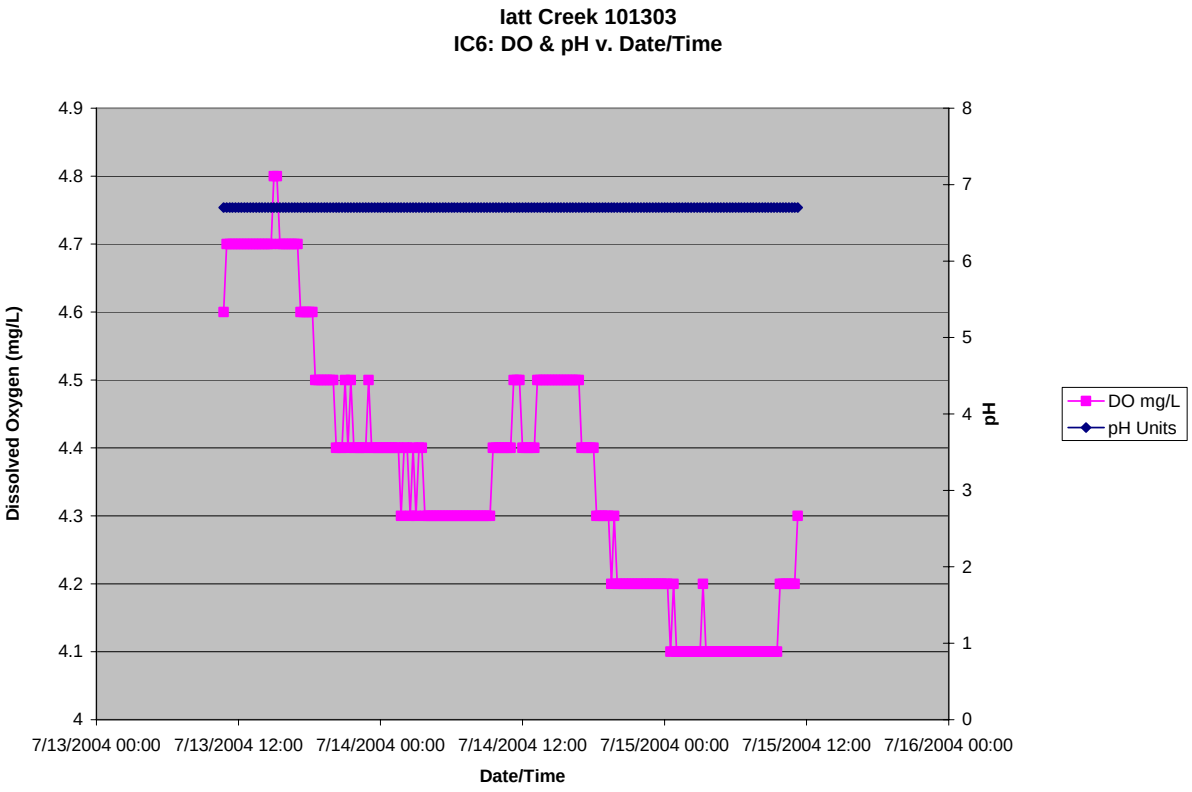
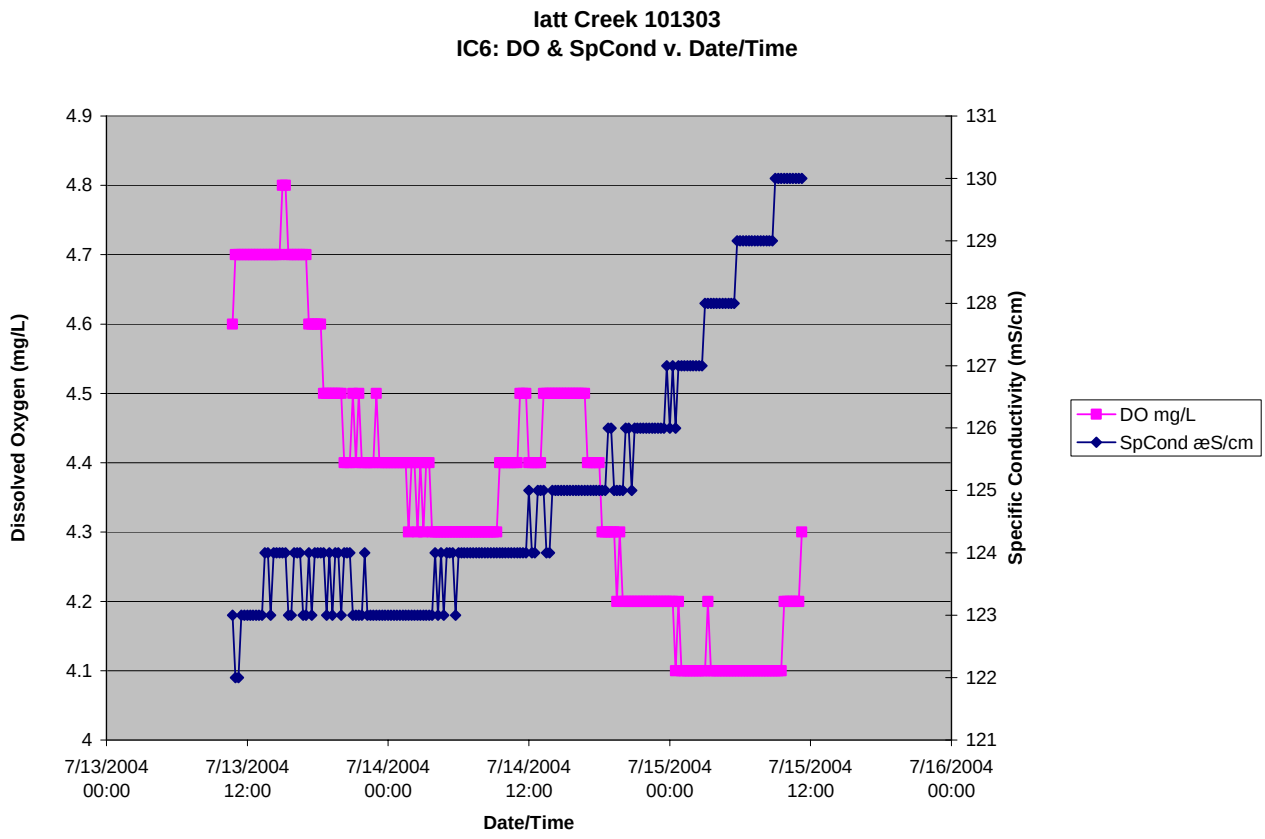
| | | **Average** | **25.3** | **6.6** | **127.8** | **53.5** | **4.39** | **10.8** | | **0.1** |


Iatt Creek 101303
IC6: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
26.8
26.6
26.4
26.2
26
25.8
25.6
25.4
25.2
25
24.8
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC6: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
pH
8
7
6
5
4
3
2
1
0
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
Date/Time
DO mg/L
pH Units


Iatt Creek 101303
IC6: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
131
130
129
128
127
126
125
124
123
122
121
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC6 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 10:45 | 7/13/2004 10:45 | 25 | 6.7 | 123 | 56 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 11:00 | 7/13/2004 11:00 | 25 | 6.7 | 122 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 11:15 | 7/13/2004 11:15 | 25.1 | 6.7 | 122 | 57.2 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 11:30 | 7/13/2004 11:30 | 25.1 | 6.7 | 123 | 57.2 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 11:45 | 7/13/2004 11:45 | 25.2 | 6.7 | 123 | 57.4 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:00 | 7/13/2004 12:00 | 25.2 | 6.7 | 123 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:15 | 7/13/2004 12:15 | 25.2 | 6.7 | 123 | 57.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:30 | 7/13/2004 12:30 | 25.3 | 6.7 | 123 | 57.2 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:45 | 7/13/2004 12:45 | 25.3 | 6.7 | 123 | 57.5 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:00 | 7/13/2004 13:00 | 25.3 | 6.7 | 123 | 57 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 25.4 | 6.7 | 123 | 57.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 25.5 | 6.7 | 124 | 57.6 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 25.6 | 6.7 | 124 | 57.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 25.5 | 6.7 | 123 | 57.6 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 25.6 | 6.7 | 124 | 57.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 14:30 | 7/13/2004 14:30 | 25.7 | 6.7 | 124 | 58.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 14:45 | 7/13/2004 14:45 | 25.8 | 6.7 | 124 | 58.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:00 | 7/13/2004 15:00 | 25.9 | 6.7 | 124 | 58.5 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 15:15 | 7/13/2004 15:15 | 26 | 6.7 | 124 | 58.6 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 15:30 | 7/13/2004 15:30 | 26.1 | 6.7 | 123 | 58.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:45 | 7/13/2004 15:45 | 26.1 | 6.7 | 123 | 58.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:00 | 7/13/2004 16:00 | 26.2 | 6.7 | 124 | 58.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:15 | 7/13/2004 16:15 | 26.2 | 6.7 | 124 | 57.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:30 | 7/13/2004 16:30 | 26.2 | 6.7 | 124 | 57.7 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:45 | 7/13/2004 16:45 | 26.3 | 6.7 | 123 | 58.2 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 26.3 | 6.7 | 123 | 57.6 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 26.2 | 6.7 | 124 | 57.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 17:30 | 7/13/2004 17:30 | 26.3 | 6.7 | 123 | 57 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 17:45 | 7/13/2004 17:45 | 26.3 | 6.7 | 124 | 57 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 26.3 | 6.7 | 124 | 56.7 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:15 | 7/13/2004 18:15 | 26.2 | 6.7 | 124 | 56.3 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 26.2 | 6.7 | 124 | 56.2 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 26.2 | 6.7 | 123 | 56 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 26.2 | 6.7 | 124 | 55.9 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 26.1 | 6.7 | 123 | 55.4 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 26.1 | 6.7 | 124 | 55.3 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 26.1 | 6.7 | 124 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 26 | 6.7 | 123 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 26 | 6.7 | 124 | 54.7 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 26 | 6.7 | 124 | 54.7 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 26 | 6.7 | 124 | 54.6 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 26 | 6.7 | 123 | 54.9 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 25.9 | 6.7 | 123 | 54.5 | 4.4 | FALSE | 0.1 |
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| 7/13/2004 | 21:45 | 7/13/2004 21:45 | 25.9 | 6.7 | 123 | 54.7 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 22:00 | 7/13/2004 22:00 | 25.9 | 6.7 | 124 | 54.7 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 25.9 | 6.7 | 123 | 54.6 | 4.4 | FALSE | 0.1 |

| | | | | | | | | | |
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| 7/13/2004 | 23:00 | 7/13/2004 | 23:00 | 25.9 | 6.7 | 123 | 54.7 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 23:15 | 7/13/2004 | 23:15 | 25.9 | 6.7 | 123 | 54.3 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 23:30 | 7/13/2004 | 23:30 | 25.9 | 6.7 | 123 | 54.3 | 4.4 | FALSE | 0.1 |
| 7/13/2004 | 23:45 | 7/13/2004 | 23:45 | 25.9 | 6.7 | 123 | 54.2 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 0:00 | 7/14/2004 | 00:00 | 25.8 | 6.7 | 123 | 54.1 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 0:15 | 7/14/2004 | 00:15 | 25.8 | 6.7 | 123 | 54.3 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 0:30 | 7/14/2004 | 00:30 | 25.8 | 6.7 | 123 | 54.2 | 4.4 | FALSE | 0.1 |
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| 7/14/2004 | 10:15 | 7/14/2004 | 10:15 | 25.4 | 6.7 | 124 | 53.7 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 10:30 | 7/14/2004 | 10:30 | 25.4 | 6.7 | 124 | 53.9 | 4.4 | FALSE | 0.1 |
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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 11:45 | 7/14/2004 | 11:45 | 25.7 | 6.7 | 124 | 54.5 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 12:15 | 7/14/2004 | 12:15 | 25.7 | 6.7 | 124 | 54.2 | 4.4 | FALSE | 0.1 |
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| 7/14/2004 | 13:15 | 7/14/2004 | 13:15 | 25.9 | 6.7 | 125 | 54.9 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 13:30 | 7/14/2004 | 13:30 | 26 | 6.7 | 124 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 13:45 | 7/14/2004 | 13:45 | 26.1 | 6.7 | 124 | 55.4 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 14:00 | 7/14/2004 | 14:00 | 26.1 | 6.7 | 125 | 55.2 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 14:15 | 7/14/2004 | 14:15 | 26.2 | 6.7 | 125 | 55.4 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 14:30 | 7/14/2004 | 14:30 | 26.2 | 6.7 | 125 | 55.3 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 14:45 | 7/14/2004 | 14:45 | 26.3 | 6.7 | 125 | 55.7 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 26.6 | 6.7 | 125 | 56 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 16:15 | 7/14/2004 | 16:15 | 26.6 | 6.7 | 125 | 56 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 26.7 | 6.7 | 125 | 55.8 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 26.7 | 6.7 | 125 | 55.4 | 4.4 | FALSE | 0.1 |
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| 7/14/2004 | 18:45 | 7/14/2004 | 18:45 | 26.6 | 6.7 | 126 | 53.8 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 26.6 | 6.7 | 126 | 53.2 | 4.3 | FALSE | 0.1 |
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| 7/14/2004 | 22:00 | 7/14/2004 | 22:00 | 26.3 | 6.7 | 126 | 52 | 4.2 | FALSE | 0.1 |
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| 7/15/2004 | 1:30 | 7/15/2004 01:30 | 26.1 | 6.7 | 127 | 51 | 4.1 | FALSE | 0.1 |
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| 7/15/2004 | 3:15 | 7/15/2004 03:15 | 26 | 6.7 | 128 | 51.1 | 4.2 | FALSE | 0.1 |
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| 7/15/2004 | 4:00 | 7/15/2004 04:00 | 25.9 | 6.7 | 128 | 50.6 | 4.1 | FALSE | 0.1 |
| 7/15/2004 | 4:15 | 7/15/2004 04:15 | 25.9 | 6.7 | 128 | 50.9 | 4.1 | FALSE | 0.1 |
| 7/15/2004 | 4:30 | 7/15/2004 04:30 | 25.9 | 6.7 | 128 | 50.6 | 4.1 | FALSE | 0.1 |
| 7/15/2004 | 4:45 | 7/15/2004 04:45 | 25.8 | 6.7 | 128 | 50.8 | 4.1 | FALSE | 0.1 |
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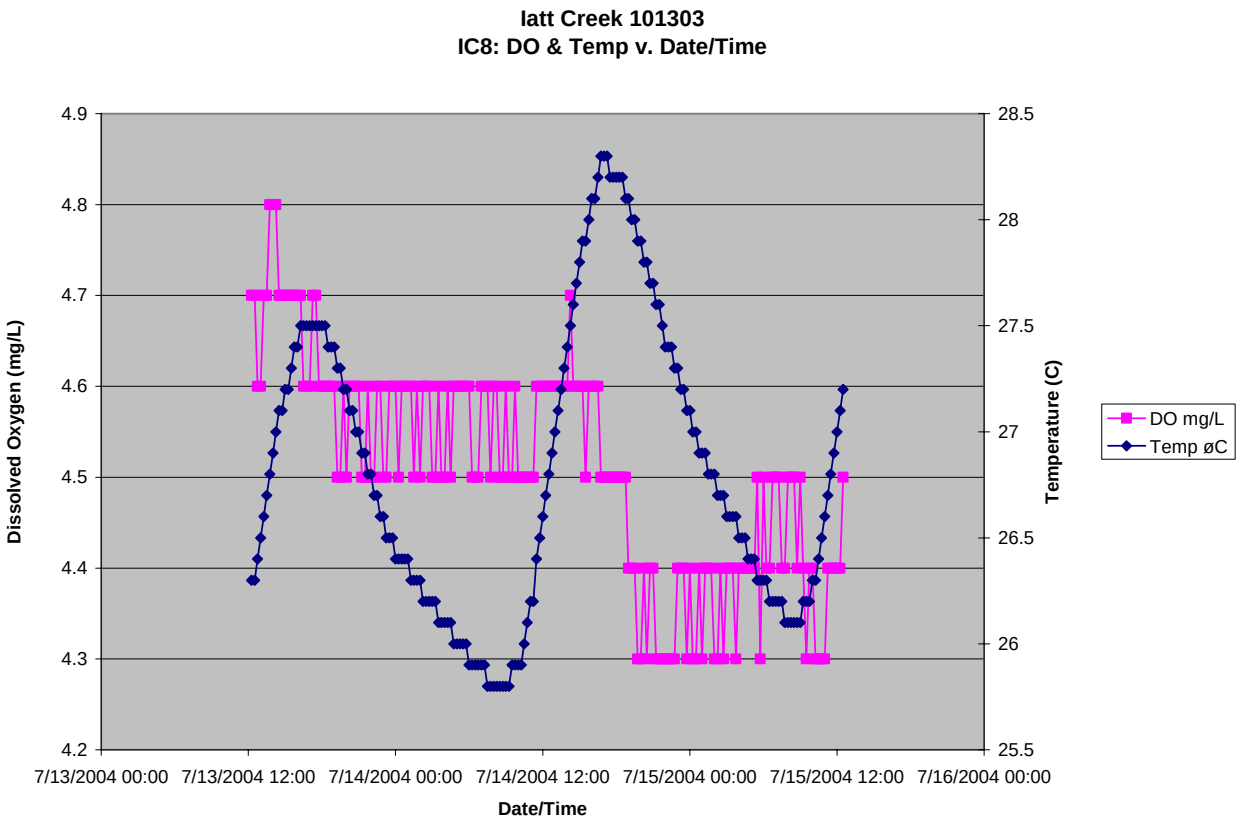
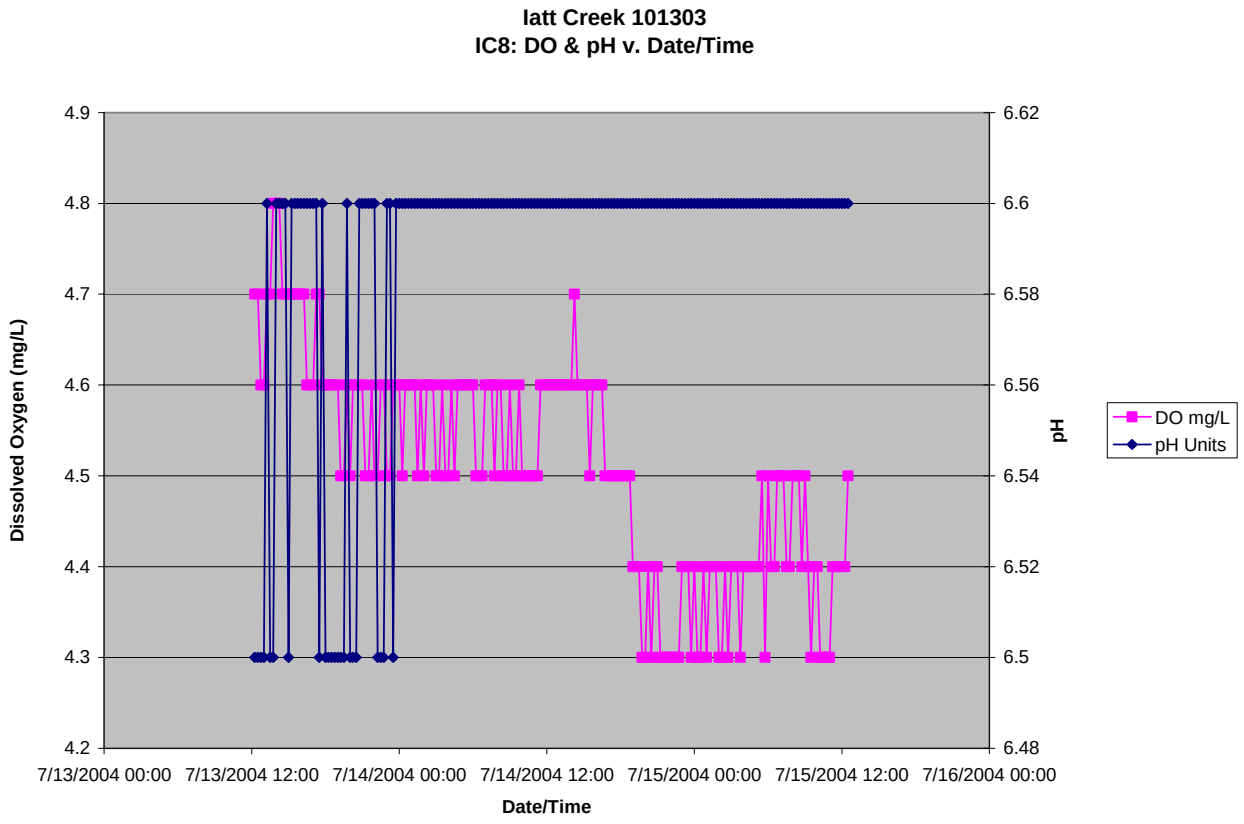
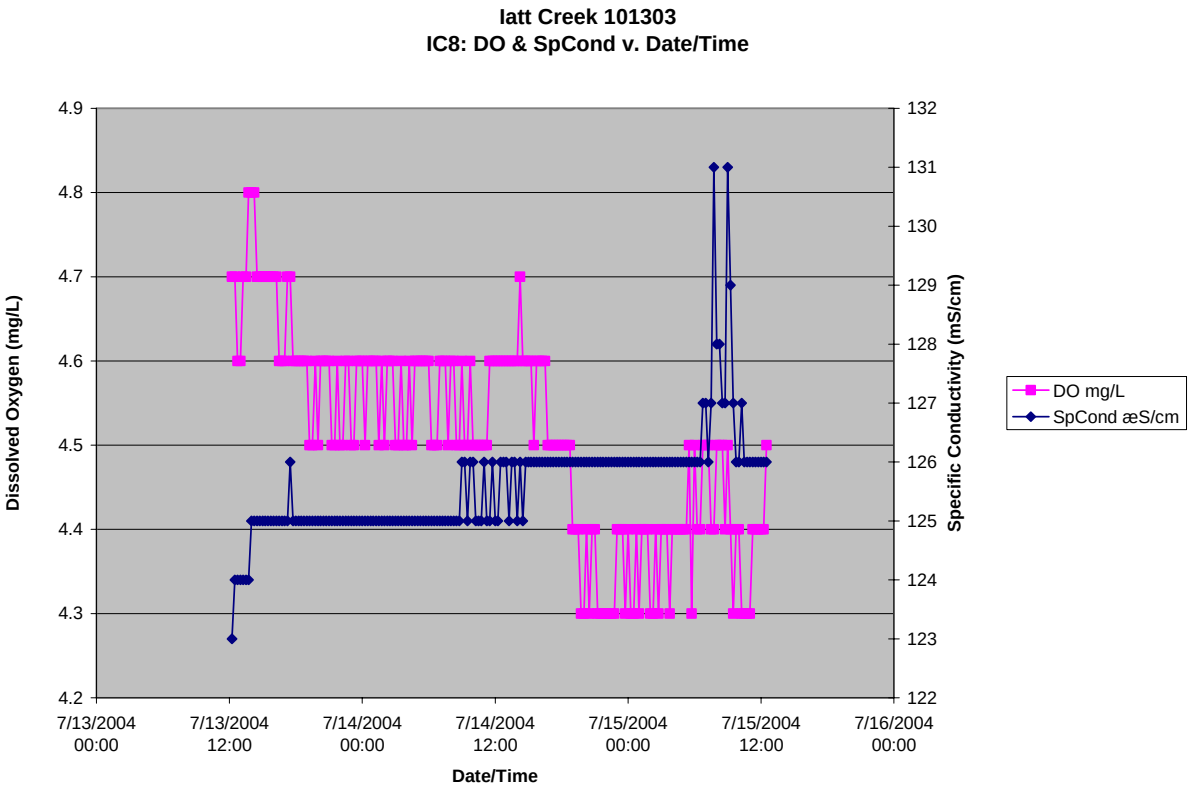

Iatt Creek 101303
IC8: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
Temperature (C)
28.5
28
27.5
27
26.5
26
25.5
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
Date/Time
DO mg/L
Temp øC


Iatt Creek 101303
IC8: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
pH
6.62
6.6
6.58
6.56
6.54
6.52
6.5
6.48
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
Date/Time
DO mg/L
pH Units


Iatt Creek 101303
IC8: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
132
131
130
129
128
127
126
125
124
123
122
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC8 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 12:15 | 7/13/2004 12:15 | 26.3 | 6.5 | 123 | 58.7 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:30 | 7/13/2004 12:30 | 26.3 | 6.5 | 124 | 58.5 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 12:45 | 7/13/2004 12:45 | 26.4 | 6.5 | 124 | 57.6 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 13:00 | 7/13/2004 13:00 | 26.5 | 6.5 | 124 | 57.7 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 26.6 | 6.6 | 124 | 59.2 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 26.7 | 6.5 | 124 | 58.5 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 26.8 | 6.5 | 124 | 59.5 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 26.9 | 6.6 | 125 | 60 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 27 | 6.6 | 125 | 59.8 | 4.8 | FALSE | 0.1 |
| 7/13/2004 | 14:30 | 7/13/2004 14:30 | 27.1 | 6.6 | 125 | 59 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 14:45 | 7/13/2004 14:45 | 27.1 | 6.6 | 125 | 58.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:00 | 7/13/2004 15:00 | 27.2 | 6.5 | 125 | 58.7 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:15 | 7/13/2004 15:15 | 27.2 | 6.6 | 125 | 58.9 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:30 | 7/13/2004 15:30 | 27.3 | 6.6 | 125 | 59.1 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 15:45 | 7/13/2004 15:45 | 27.4 | 6.6 | 125 | 58.7 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:00 | 7/13/2004 16:00 | 27.4 | 6.6 | 125 | 59.3 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:15 | 7/13/2004 16:15 | 27.5 | 6.6 | 125 | 59.8 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 16:30 | 7/13/2004 16:30 | 27.5 | 6.6 | 125 | 58.2 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 16:45 | 7/13/2004 16:45 | 27.5 | 6.6 | 125 | 58.3 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 27.5 | 6.6 | 125 | 58.3 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 27.5 | 6.6 | 125 | 59 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 17:30 | 7/13/2004 17:30 | 27.5 | 6.5 | 126 | 59 | 4.7 | FALSE | 0.1 |
| 7/13/2004 | 17:45 | 7/13/2004 17:45 | 27.5 | 6.6 | 125 | 57.9 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 27.5 | 6.5 | 125 | 58.7 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:15 | 7/13/2004 18:15 | 27.5 | 6.5 | 125 | 58.1 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 27.4 | 6.5 | 125 | 58.5 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 18:45 | 7/13/2004 18:45 | 27.4 | 6.5 | 125 | 58 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:00 | 7/13/2004 19:00 | 27.4 | 6.5 | 125 | 58 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 19:15 | 7/13/2004 19:15 | 27.3 | 6.5 | 125 | 57 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:30 | 7/13/2004 19:30 | 27.3 | 6.5 | 125 | 57.1 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 19:45 | 7/13/2004 19:45 | 27.2 | 6.6 | 125 | 57.8 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:00 | 7/13/2004 20:00 | 27.2 | 6.5 | 125 | 56.7 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 20:15 | 7/13/2004 20:15 | 27.1 | 6.5 | 125 | 57.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:30 | 7/13/2004 20:30 | 27.1 | 6.5 | 125 | 57.5 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 20:45 | 7/13/2004 20:45 | 27 | 6.6 | 125 | 57.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 27 | 6.6 | 125 | 57.4 | 4.6 | FALSE | 0.1 |
| 7/13/2004 | 21:15 | 7/13/2004 21:15 | 26.9 | 6.6 | 125 | 56.1 | 4.5 | FALSE | 0.1 |
| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 26.9 | 6.6 | 125 | 56.8 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 1:15 | 7/14/2004 01:15 | 26.3 | 6.6 | 125 | 56.9 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 1:30 | 7/14/2004 01:30 | 26.3 | 6.6 | 125 | 56 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 1:45 | 7/14/2004 01:45 | 26.3 | 6.6 | 125 | 57 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 2:00 | 7/14/2004 02:00 | 26.3 | 6.6 | 125 | 55.9 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 4:00 | 7/14/2004 04:00 | 26.1 | 6.6 | 125 | 55.8 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 11:45 | 7/14/2004 11:45 | 26.5 | 6.6 | 126 | 57.1 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 12:00 | 7/14/2004 12:00 | 26.6 | 6.6 | 125 | 57.7 | 4.6 | FALSE | 0.1 |
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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7/14/2004 | 13:15 | 7/14/2004 | 13:15 | 27.1 | 6.6 | 125 | 58 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 13:30 | 7/14/2004 | 13:30 | 27.2 | 6.6 | 126 | 58.1 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 13:45 | 7/14/2004 | 13:45 | 27.3 | 6.6 | 126 | 57.4 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 14:00 | 7/14/2004 | 14:00 | 27.4 | 6.6 | 125 | 58.2 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 14:15 | 7/14/2004 | 14:15 | 27.5 | 6.6 | 126 | 59 | 4.7 | FALSE | 0.1 |
| 7/14/2004 | 14:30 | 7/14/2004 | 14:30 | 27.6 | 6.6 | 125 | 58.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 14:45 | 7/14/2004 | 14:45 | 27.7 | 6.6 | 126 | 58.7 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 15:00 | 7/14/2004 | 15:00 | 27.8 | 6.6 | 126 | 58.6 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 15:15 | 7/14/2004 | 15:15 | 27.9 | 6.6 | 126 | 58.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 15:30 | 7/14/2004 | 15:30 | 27.9 | 6.6 | 126 | 57.8 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 15:45 | 7/14/2004 | 15:45 | 28 | 6.6 | 126 | 58.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 28.1 | 6.6 | 126 | 58.3 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 16:15 | 7/14/2004 | 16:15 | 28.1 | 6.6 | 126 | 58.8 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 16:30 | 7/14/2004 | 16:30 | 28.2 | 6.6 | 126 | 58.5 | 4.6 | FALSE | 0.1 |
| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 28.3 | 6.6 | 126 | 58.1 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 28.3 | 6.6 | 126 | 57.5 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 17:15 | 7/14/2004 | 17:15 | 28.3 | 6.6 | 126 | 57.4 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 17:30 | 7/14/2004 | 17:30 | 28.2 | 6.6 | 126 | 57.9 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 28.2 | 6.6 | 126 | 58.1 | 4.5 | FALSE | 0.1 |
| 7/14/2004 | 18:15 | 7/14/2004 | 18:15 | 28.2 | 6.6 | 126 | 57.6 | 4.5 | FALSE | 0.1 |
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| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 28.1 | 6.6 | 126 | 56.1 | 4.4 | FALSE | 0.1 |
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| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 27.9 | 6.6 | 126 | 54.9 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 27.9 | 6.6 | 126 | 55.4 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 20:15 | 7/14/2004 | 20:15 | 27.8 | 6.6 | 126 | 55.8 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 27.8 | 6.6 | 126 | 54.6 | 4.3 | FALSE | 0.1 |
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| 7/14/2004 | 21:00 | 7/14/2004 | 21:00 | 27.7 | 6.6 | 126 | 55.4 | 4.4 | FALSE | 0.1 |
| 7/14/2004 | 21:15 | 7/14/2004 | 21:15 | 27.6 | 6.6 | 126 | 54 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 21:30 | 7/14/2004 | 21:30 | 27.6 | 6.6 | 126 | 54.2 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 21:45 | 7/14/2004 | 21:45 | 27.5 | 6.6 | 126 | 54.4 | 4.3 | FALSE | 0.1 |
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| 7/14/2004 | 22:30 | 7/14/2004 | 22:30 | 27.4 | 6.6 | 126 | 54.4 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 27.3 | 6.6 | 126 | 53.6 | 4.3 | FALSE | 0.1 |
| 7/14/2004 | 23:00 | 7/14/2004 | 23:00 | 27.3 | 6.6 | 126 | 55 | 4.4 | FALSE | 0.1 |
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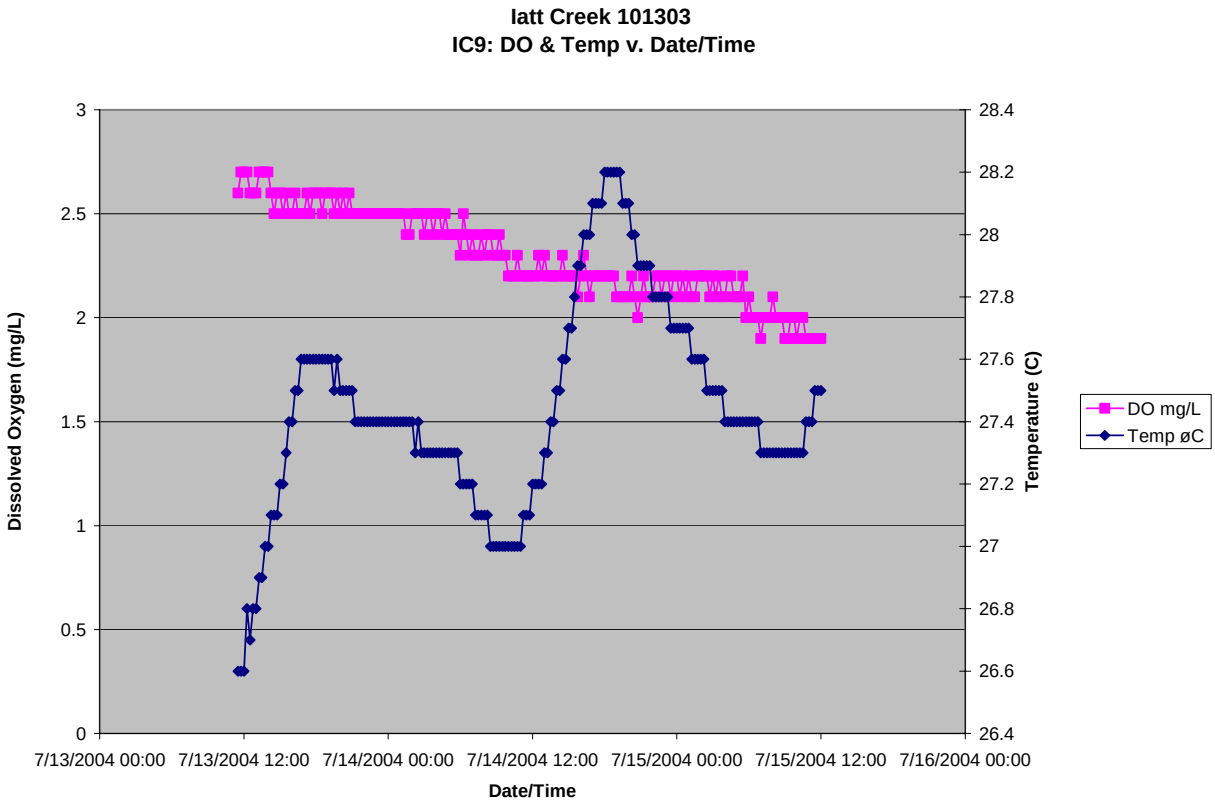
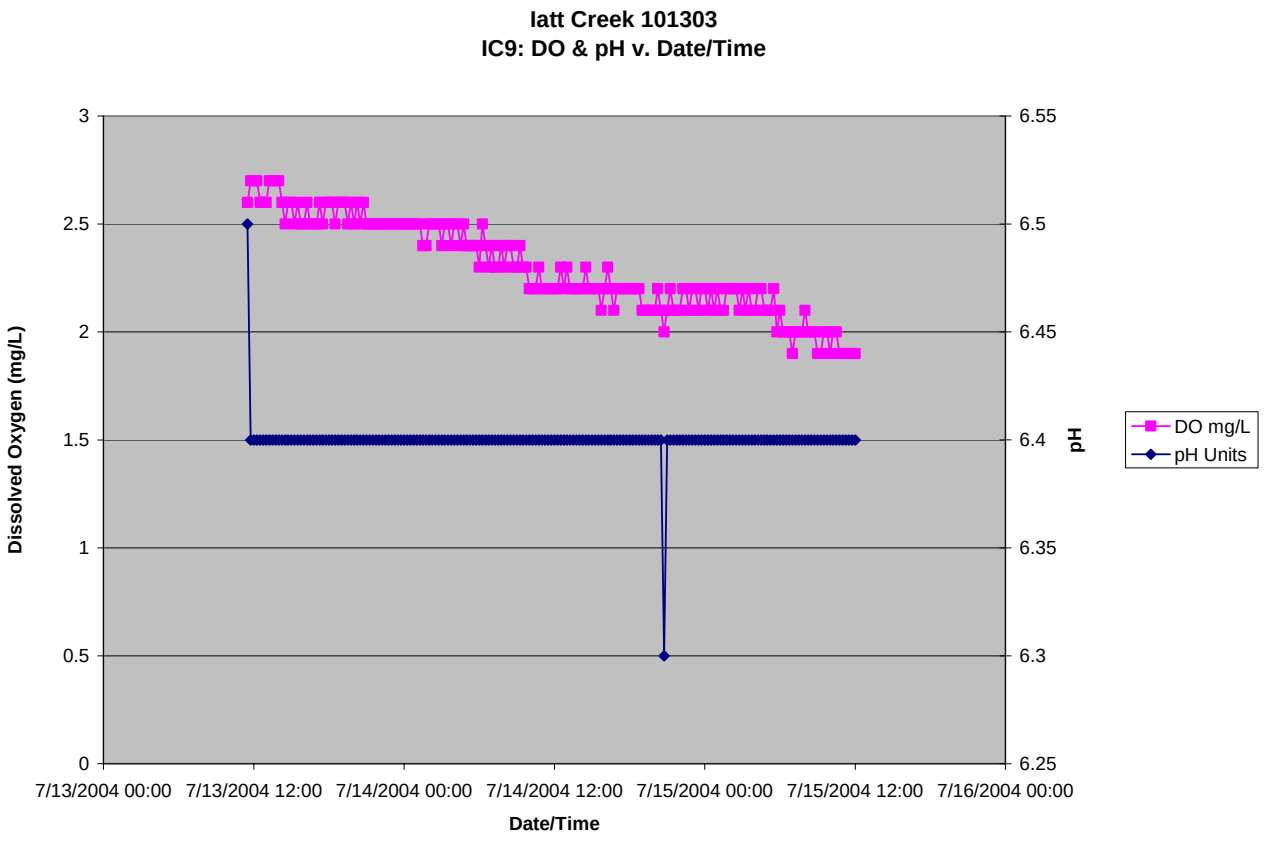
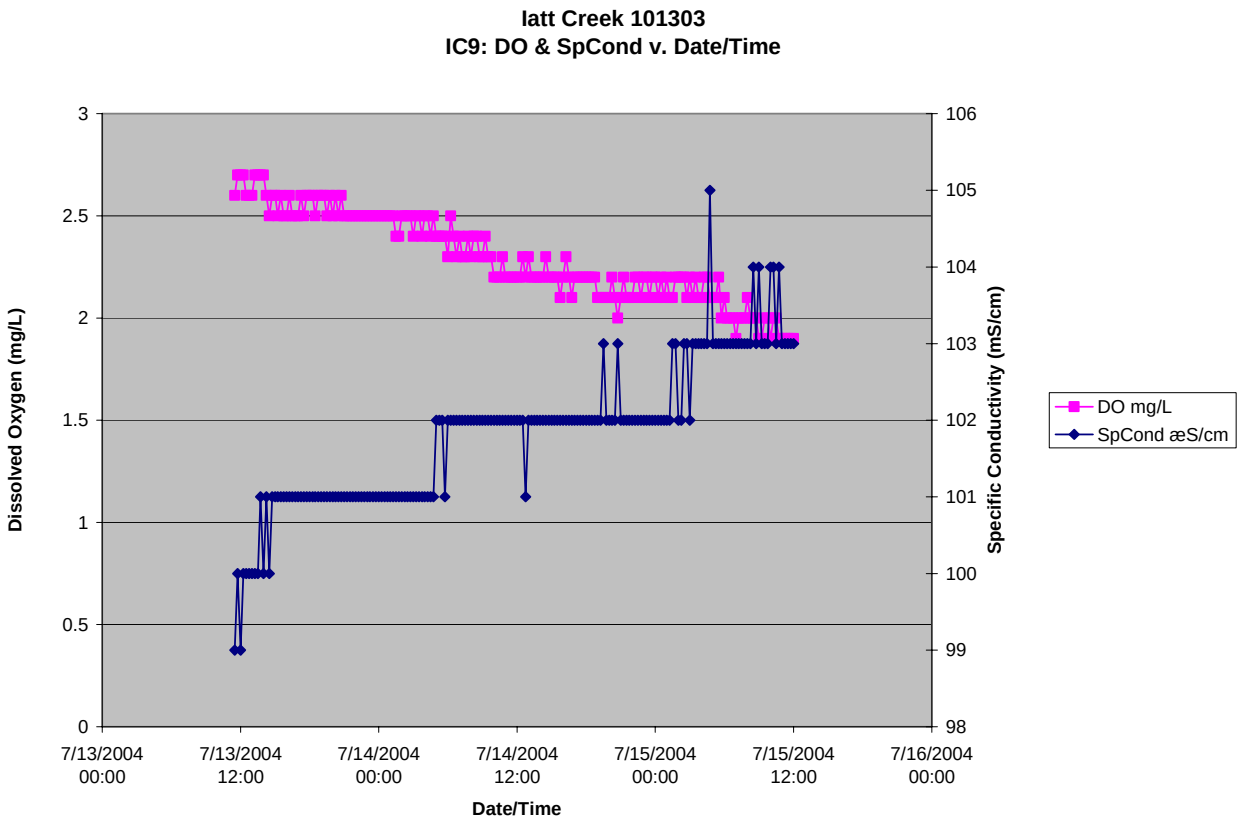

Iatt Creek 101303
IC9: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
3
2.5
2
1.5
1
0.5
0
28.4
28.2
28
27.8
27.6
27.4
27.2
27
26.8
26.6
26.4
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
Temp øC


Iatt Creek 101303
IC9: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
3
2.5
2
1.5
1
0.5
0
6.55
6.5
6.45
6.4
6.35
6.3
6.25
7/13/2004 00:00
7/13/2004 12:00
7/14/2004 00:00
7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
pH Units


Iatt Creek 101303
IC9: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
3
2.5
2
1.5
1
0.5
0
106
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7/13/2004 00:00
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7/14/2004 12:00
7/15/2004 00:00
7/15/2004 12:00
7/16/2004 00:00
DO mg/L
SpCond æS/cm

# Iatt Creek 101303 IC9 Continuous Monitoring Data

| Date | Time | Date+Time | Temp | pH | SpCond | DO% | DO | VENTED DEPTH | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | True/False | ppt |
| 7/13/2004 | 11:30 | 7/13/2004 11:30 | 26.6 | 6.5 | 99 | 32.7 | 2.6 | FALSE | 0 |
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| 7/13/2004 | 12:00 | 7/13/2004 12:00 | 26.6 | 6.4 | 99 | 33 | 2.7 | FALSE | 0 |
| 7/13/2004 | 12:15 | 7/13/2004 12:15 | 26.8 | 6.4 | 100 | 33.6 | 2.7 | FALSE | 0 |
| 7/13/2004 | 12:30 | 7/13/2004 12:30 | 26.7 | 6.4 | 100 | 32.9 | 2.6 | FALSE | 0 |
| 7/13/2004 | 12:45 | 7/13/2004 12:45 | 26.8 | 6.4 | 100 | 32.4 | 2.6 | FALSE | 0 |
| 7/13/2004 | 13:00 | 7/13/2004 13:00 | 26.8 | 6.4 | 100 | 32.5 | 2.6 | FALSE | 0 |
| 7/13/2004 | 13:15 | 7/13/2004 13:15 | 26.9 | 6.4 | 100 | 34 | 2.7 | FALSE | 0 |
| 7/13/2004 | 13:30 | 7/13/2004 13:30 | 26.9 | 6.4 | 100 | 33.7 | 2.7 | FALSE | 0 |
| 7/13/2004 | 13:45 | 7/13/2004 13:45 | 27 | 6.4 | 101 | 34 | 2.7 | FALSE | 0 |
| 7/13/2004 | 14:00 | 7/13/2004 14:00 | 27 | 6.4 | 100 | 33.3 | 2.7 | FALSE | 0 |
| 7/13/2004 | 14:15 | 7/13/2004 14:15 | 27.1 | 6.4 | 101 | 32.5 | 2.6 | FALSE | 0 |
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| 7/13/2004 | 17:00 | 7/13/2004 17:00 | 27.6 | 6.4 | 101 | 31.8 | 2.5 | FALSE | 0 |
| 7/13/2004 | 17:15 | 7/13/2004 17:15 | 27.6 | 6.4 | 101 | 32.5 | 2.6 | FALSE | 0 |
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| 7/13/2004 | 18:00 | 7/13/2004 18:00 | 27.6 | 6.4 | 101 | 32.5 | 2.6 | FALSE | 0 |
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| 7/13/2004 | 18:30 | 7/13/2004 18:30 | 27.6 | 6.4 | 101 | 31.9 | 2.5 | FALSE | 0 |
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| 7/13/2004 | 21:00 | 7/13/2004 21:00 | 27.5 | 6.4 | 101 | 31.1 | 2.5 | FALSE | 0 |
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| 7/13/2004 | 21:30 | 7/13/2004 21:30 | 27.4 | 6.4 | 101 | 32 | 2.5 | FALSE | 0 |
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| 7/13/2004 | 22:15 | 7/13/2004 22:15 | 27.4 | 6.4 | 101 | 31.4 | 2.5 | FALSE | 0 |
| 7/13/2004 | 22:30 | 7/13/2004 22:30 | 27.4 | 6.4 | 101 | 31.7 | 2.5 | FALSE | 0 |
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| 7/14/2004 | 2:30 | 7/14/2004 02:30 | 27.4 | 6.4 | 101 | 30.9 | 2.5 | FALSE | 0 |
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| 7/14/2004 | 3:00 | 7/14/2004 03:00 | 27.3 | 6.4 | 101 | 30.4 | 2.4 | FALSE | 0 |
| 7/14/2004 | 3:15 | 7/14/2004 03:15 | 27.3 | 6.4 | 101 | 31.7 | 2.5 | FALSE | 0 |
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| 7/14/2004 | 8:00 | 7/14/2004 08:00 | 27.1 | 6.4 | 102 | 29.1 | 2.3 | FALSE | 0 |
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| 7/14/2004 | 8:45 | 7/14/2004 08:45 | 27 | 6.4 | 102 | 28.3 | 2.3 | FALSE | 0 |
| 7/14/2004 | 9:00 | 7/14/2004 09:00 | 27 | 6.4 | 102 | 29.3 | 2.3 | FALSE | 0 |
| 7/14/2004 | 9:15 | 7/14/2004 09:15 | 27 | 6.4 | 102 | 29.6 | 2.4 | FALSE | 0 |
| 7/14/2004 | 9:30 | 7/14/2004 09:30 | 27 | 6.4 | 102 | 28.7 | 2.3 | FALSE | 0 |
| 7/14/2004 | 9:45 | 7/14/2004 09:45 | 27 | 6.4 | 102 | 28.6 | 2.3 | FALSE | 0 |
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| 7/14/2004 | 10:30 | 7/14/2004 10:30 | 27 | 6.4 | 102 | 27.8 | 2.2 | FALSE | 0 |
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| 7/14/2004 | 11:15 | 7/14/2004 11:15 | 27.1 | 6.4 | 102 | 27.5 | 2.2 | FALSE | 0 |
| 7/14/2004 | 11:30 | 7/14/2004 11:30 | 27.1 | 6.4 | 102 | 27.8 | 2.2 | FALSE | 0 |
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|---|---|---|---|---|---|---|---|---|---|
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| 7/14/2004 | 16:00 | 7/14/2004 | 16:00 | 27.9 | 6.4 | 102 | 28 | 2.2 | FALSE | 0 |
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| 7/14/2004 | 16:30 | 7/14/2004 | 16:30 | 28 | 6.4 | 102 | 28 | 2.2 | FALSE | 0 |
| 7/14/2004 | 16:45 | 7/14/2004 | 16:45 | 28 | 6.4 | 102 | 27.4 | 2.1 | FALSE | 0 |
| 7/14/2004 | 17:00 | 7/14/2004 | 17:00 | 28.1 | 6.4 | 102 | 28.1 | 2.2 | FALSE | 0 |
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| 7/14/2004 | 17:30 | 7/14/2004 | 17:30 | 28.1 | 6.4 | 102 | 28.4 | 2.2 | FALSE | 0 |
| 7/14/2004 | 17:45 | 7/14/2004 | 17:45 | 28.1 | 6.4 | 102 | 27.8 | 2.2 | FALSE | 0 |
| 7/14/2004 | 18:00 | 7/14/2004 | 18:00 | 28.2 | 6.4 | 102 | 28.6 | 2.2 | FALSE | 0 |
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| 7/14/2004 | 18:45 | 7/14/2004 | 18:45 | 28.2 | 6.4 | 102 | 28.3 | 2.2 | FALSE | 0 |
| 7/14/2004 | 19:00 | 7/14/2004 | 19:00 | 28.2 | 6.4 | 102 | 26.9 | 2.1 | FALSE | 0 |
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| 7/14/2004 | 19:30 | 7/14/2004 | 19:30 | 28.1 | 6.4 | 103 | 26.4 | 2.1 | FALSE | 0 |
| 7/14/2004 | 19:45 | 7/14/2004 | 19:45 | 28.1 | 6.4 | 102 | 27.2 | 2.1 | FALSE | 0 |
| 7/14/2004 | 20:00 | 7/14/2004 | 20:00 | 28.1 | 6.4 | 102 | 26.9 | 2.1 | FALSE | 0 |
| 7/14/2004 | 20:15 | 7/14/2004 | 20:15 | 28 | 6.4 | 102 | 27.5 | 2.2 | FALSE | 0 |
| 7/14/2004 | 20:30 | 7/14/2004 | 20:30 | 28 | 6.4 | 102 | 26.4 | 2.1 | FALSE | 0 |
| 7/14/2004 | 20:45 | 7/14/2004 | 20:45 | 27.9 | 6.3 | 103 | 25.6 | 2 | FALSE | 0 |
| 7/14/2004 | 21:00 | 7/14/2004 | 21:00 | 27.9 | 6.4 | 102 | 26.7 | 2.1 | FALSE | 0 |
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| 7/14/2004 | 22:00 | 7/14/2004 | 22:00 | 27.8 | 6.4 | 102 | 26.9 | 2.1 | FALSE | 0 |
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| 7/14/2004 | 22:45 | 7/14/2004 | 22:45 | 27.8 | 6.4 | 102 | 27.1 | 2.1 | FALSE | 0 |
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| 7/15/2004 | 2:45 | 7/15/2004 02:45 | 27.5 | 6.4 | 103 | 27.1 | 2.1 | FALSE | 0 |
| 7/15/2004 | 3:00 | 7/15/2004 03:00 | 27.5 | 6.4 | 102 | 27.4 | 2.2 | FALSE | 0 |
| 7/15/2004 | 3:15 | 7/15/2004 03:15 | 27.5 | 6.4 | 103 | 26.3 | 2.1 | FALSE | 0 |
| 7/15/2004 | 3:30 | 7/15/2004 03:30 | 27.5 | 6.4 | 103 | 27.6 | 2.2 | FALSE | 0 |
| 7/15/2004 | 3:45 | 7/15/2004 03:45 | 27.5 | 6.4 | 103 | 26.7 | 2.1 | FALSE | 0 |
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| 7/15/2004 | 4:15 | 7/15/2004 04:15 | 27.4 | 6.4 | 103 | 27.4 | 2.2 | FALSE | 0 |
| 7/15/2004 | 4:30 | 7/15/2004 04:30 | 27.4 | 6.4 | 103 | 27.2 | 2.2 | FALSE | 0 |
| 7/15/2004 | 4:45 | 7/15/2004 04:45 | 27.4 | 6.4 | 105 | 26.5 | 2.1 | FALSE | 0 |
| 7/15/2004 | 5:00 | 7/15/2004 05:00 | 27.4 | 6.4 | 103 | 26.5 | 2.1 | FALSE | 0 |
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| 7/15/2004 | 8:00 | 7/15/2004 08:00 | 27.3 | 6.4 | 103 | 26.1 | 2.1 | FALSE | 0 |
| 7/15/2004 | 8:15 | 7/15/2004 08:15 | 27.3 | 6.4 | 103 | 25.3 | 2 | FALSE | 0 |
| 7/15/2004 | 8:30 | 7/15/2004 08:30 | 27.3 | 6.4 | 104 | 24.6 | 2 | FALSE | 0 |
| 7/15/2004 | 8:45 | 7/15/2004 08:45 | 27.3 | 6.4 | 103 | 25.3 | 2 | FALSE | 0 |
| 7/15/2004 | 9:00 | 7/15/2004 09:00 | 27.3 | 6.4 | 104 | 24.3 | 1.9 | FALSE | 0 |
| 7/15/2004 | 9:15 | 7/15/2004 09:15 | 27.3 | 6.4 | 103 | 24.3 | 1.9 | FALSE | 0 |
| 7/15/2004 | 9:30 | 7/15/2004 09:30 | 27.3 | 6.4 | 103 | 25.7 | 2 | FALSE | 0 |
| 7/15/2004 | 9:45 | 7/15/2004 09:45 | 27.3 | 6.4 | 103 | 24.9 | 2 | FALSE | 0 |
| 7/15/2004 | 10:00 | 7/15/2004 10:00 | 27.3 | 6.4 | 104 | 24.3 | 1.9 | FALSE | 0 |
| 7/15/2004 | 10:15 | 7/15/2004 10:15 | 27.3 | 6.4 | 104 | 25.5 | 2 | FALSE | 0 |
| 7/15/2004 | 10:30 | 7/15/2004 10:30 | 27.3 | 6.4 | 103 | 25 | 2 | FALSE | 0 |
| 7/15/2004 | 10:45 | 7/15/2004 10:45 | 27.4 | 6.4 | 104 | 24.1 | 1.9 | FALSE | 0 |
| 7/15/2004 | 11:00 | 7/15/2004 11:00 | 27.4 | 6.4 | 103 | 24.4 | 1.9 | FALSE | 0 |
| 7/15/2004 | 11:15 | 7/15/2004 11:15 | 27.4 | 6.4 | 103 | 24.6 | 1.9 | FALSE | 0 |
| 7/15/2004 | 11:30 | 7/15/2004 11:30 | 27.5 | 6.4 | 103 | 24.6 | 1.9 | FALSE | 0 |
| 7/15/2004 | 11:45 | 7/15/2004 11:45 | 27.5 | 6.4 | 103 | 23.5 | 1.9 | FALSE | 0 |
| 7/15/2004 | 12:00 | 7/15/2004 12:00 | 27.5 | 6.4 | 103 | 24 | 1.9 | FALSE | 0 |
| | | **Average** | **27.4** | **6.4** | **101.82** | **29** | **2.3** | | **0** |

# Appendix F5 – BOD Calculations

## Iatt Creek 101303 BOD Summary By Site

| Site # | CBOD | CBOD Decay Rate | NBOD | NBOD Decay Rate |
|---|---|---|---|---|
| IC1 | 26.3089 | 0.0302 | 1.5118 | 0.0623 |
| IC2 | 24.5801 | 0.0424 | 6.9324 | 0.0646 |
| IC3 | 21.4362 | 0.0487 | 6.4365 | 0.0806 |
| IC4 | 7.3689 | 0.0623 | 1.3211 | 0.0463 |
| IC5 | 7.3204 | 0.0658 | 1.0498 | 0.0600 |
| IC6 | 7.2093 | 0.0680 | 1.2904 | 0.0864 |
| IC8 | 7.5423 | 0.0611 | 1.3301 | 0.0944 |
| IC9 | 10.0370 | 0.0984 | 1.6019 | 0.0864 |
| RC1 | 5.8079 | 0.0440 | 0.7041 | 0.0623 |
| CC1 | 9.3243 | 0.0657 | 2.7230 | 0.1139 |

## Iatt Creek 101303 BOD Summary By Reach

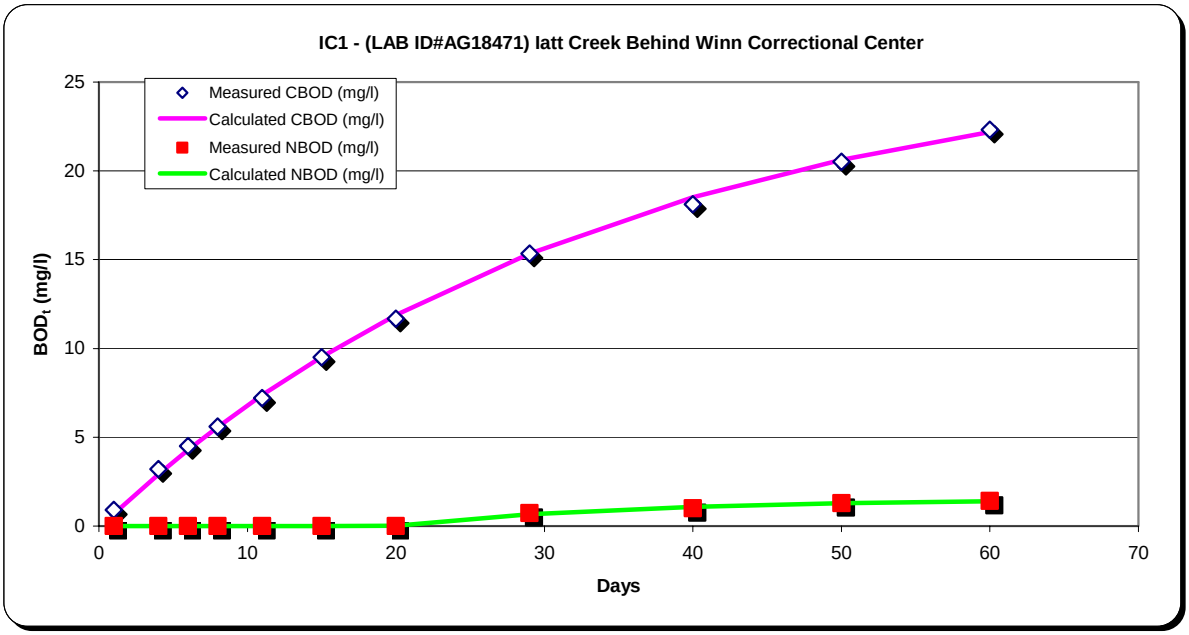
| Reach # | Calculation | CBOD | CBOD Decay Rate | NBOD | NBOD Decay Rate |
|---|---|---|---|---|---|
| 1 | avg(ic1,ic2,ic3) | 24.1084 | 0.0405 | 4.9602 | 0.0692 |
| 2 | avg(ic3,ic4) | 14.4025 | 0.0555 | 3.8788 | 0.0634 |
| 3 | avg(ic4,ic5) | 7.3447 | 0.0640 | 1.1854 | 0.0531 |
| 4 | avg(ic5,ic6) | 7.2649 | 0.0669 | 1.1701 | 0.0732 |
| 5 | avg(ic6,ic8) | 7.3758 | 0.0646 | 1.3103 | 0.0904 |
| 6 | ic8 | 7.5423 | 0.0611 | 1.3301 | 0.0944 |

## Ratio Calcs for CBOD and NBOD to be used in background

| Site | CBOD | NBOD | UBOD | Ratio CBOD to TOTAL | Ratio NBOD to TOTAL | Background CBOD | Background NBOD |
|---|---|---|---|---|---|---|---|
| IC1 | 26.308943 | 1.5118026 | 27.8207456 | 0.945659163 | 0.054340837 | **5.563628076** | **0.319705257** |
| RC1 | 5.8079057 | 0.7041185 | 6.5120242 | 0.891874097 | 0.108125903 | **5.247192601** | **0.636140732** |
| CC1 | 9.324255 | 2.7229586 | 12.0472136 | 0.773976067 | 0.226023933 | **4.553559194** | **1.329774139** |

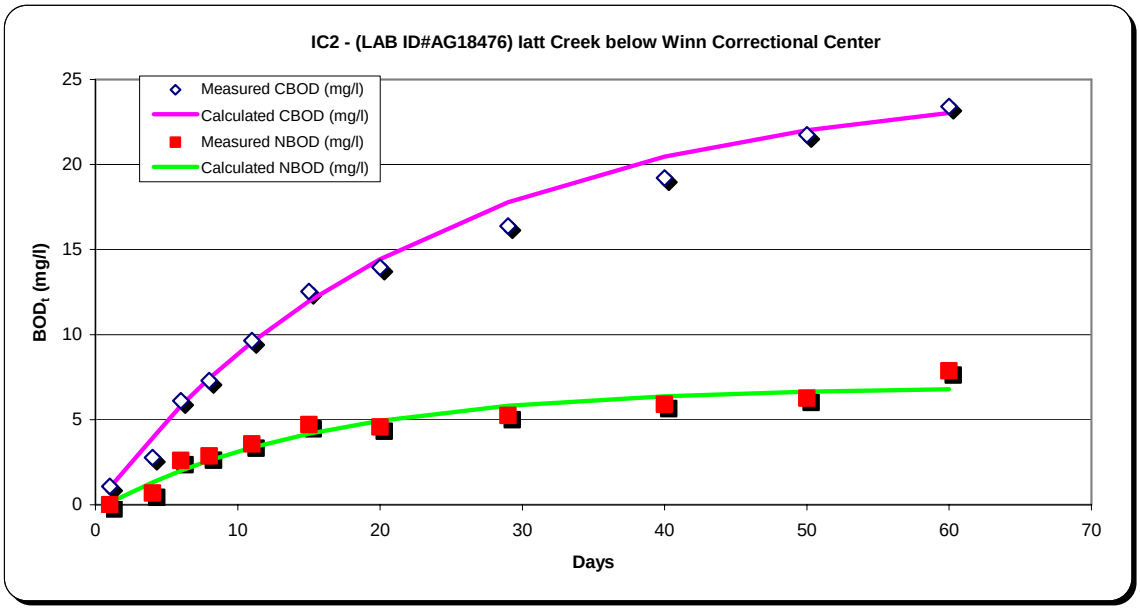
| Kisatchie Bayou | CBOD | NBOD |
|---|---|---|
| | 1.54 | 4.2 |
| | 1.51 | 4.23 |
| | 1.68 | 4.49 |
| **Average** | **1.5766667** | **4.3066667** |
| | | |
| **UBOD** | **5.8833333** | |

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.5118026 | 26.308943 |
| k rate (1/day) | 0.0622917 | 0.0302083 |
| Lag time (days) | 19.784721 | 0.1215278 |



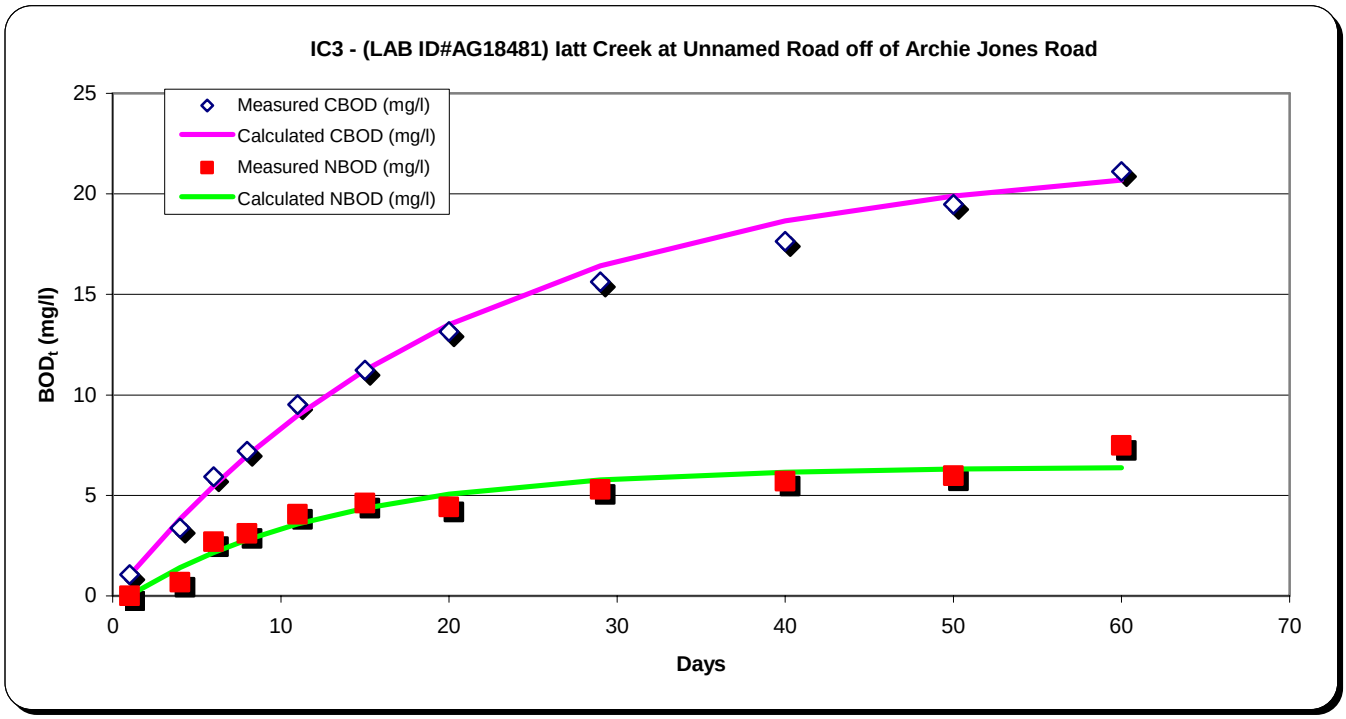

Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 6.932436 | 24.580114 |
| k rate (1/day) | 0.0645833 | 0.0424306 |
| Lag time (days) | 0.7291667 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 6.4365063 | 21.436214 |
| k rate (1/day) | 0.080625 | 0.0487326 |
| Lag time (days) | 0.9236111 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

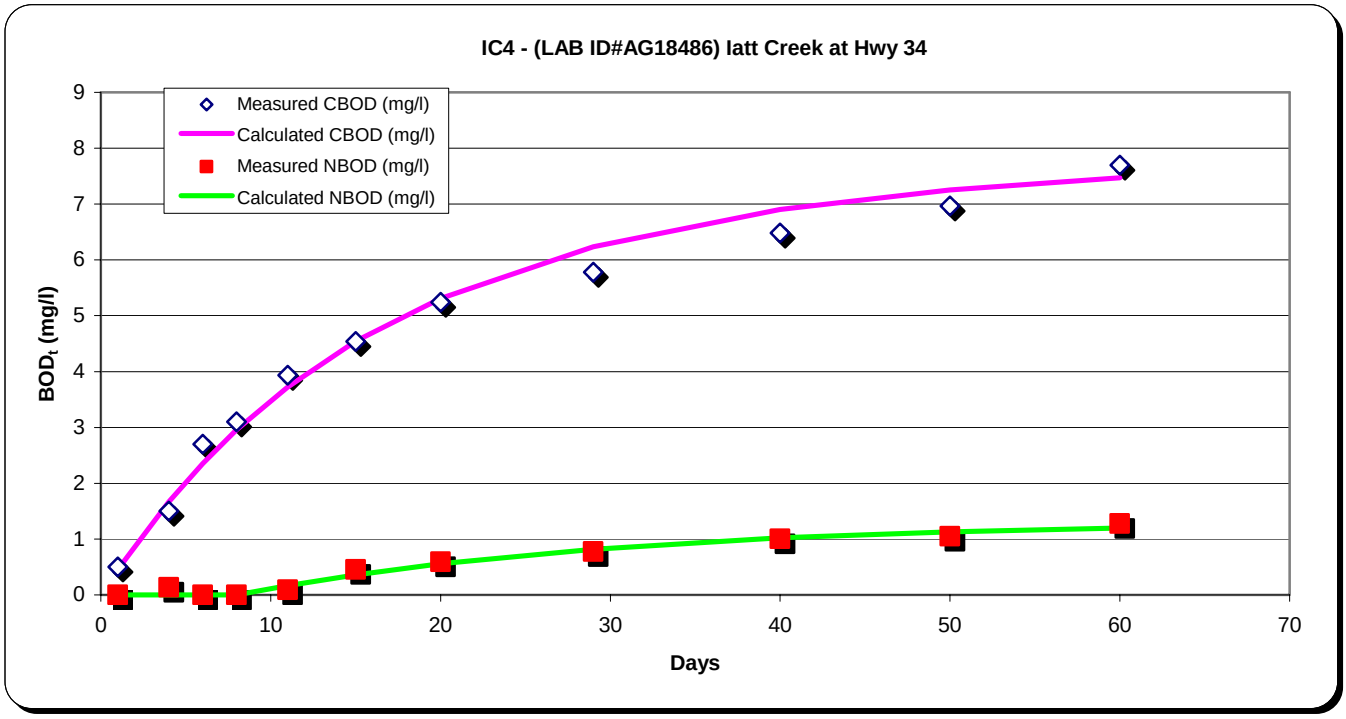
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.3210686 | 7.324326 |
| k rate (1/day) | 0.04625 | 0.0645833 |
| Lag time (days) | 8.0694447 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

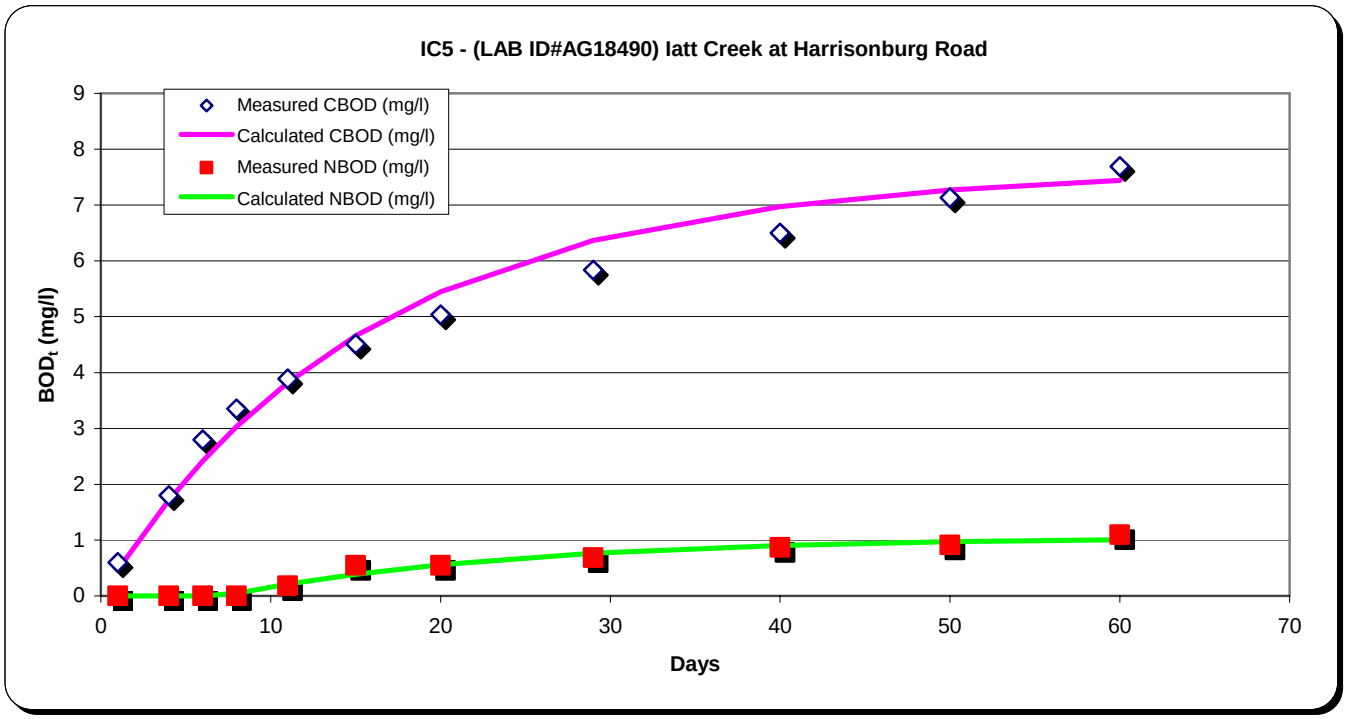
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.0498304 | 7.3204322 |
| k rate (1/day) | 0.06 | 0.0657292 |
| Lag time (days) | 7.2430553 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

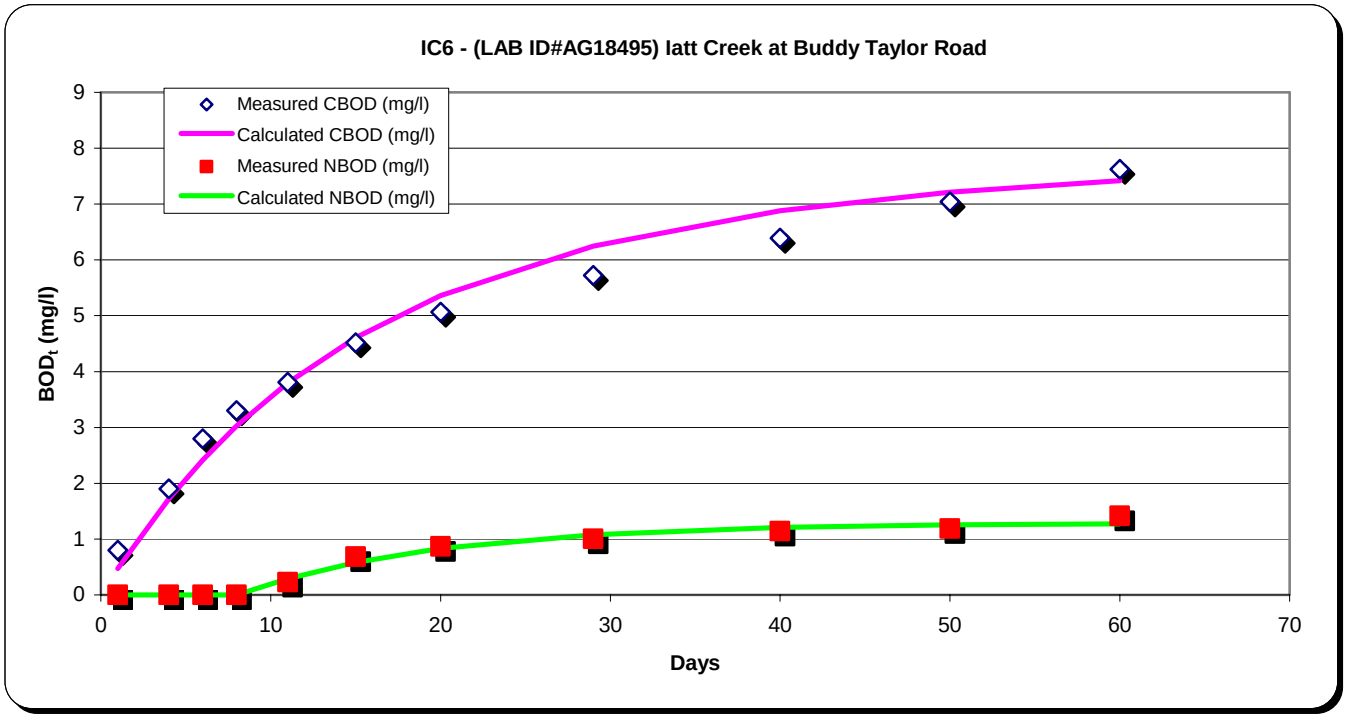
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.2904432 | 7.209322 |
| k rate (1/day) | 0.0863542 | 0.0680208 |
| Lag time (days) | 8.020834 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

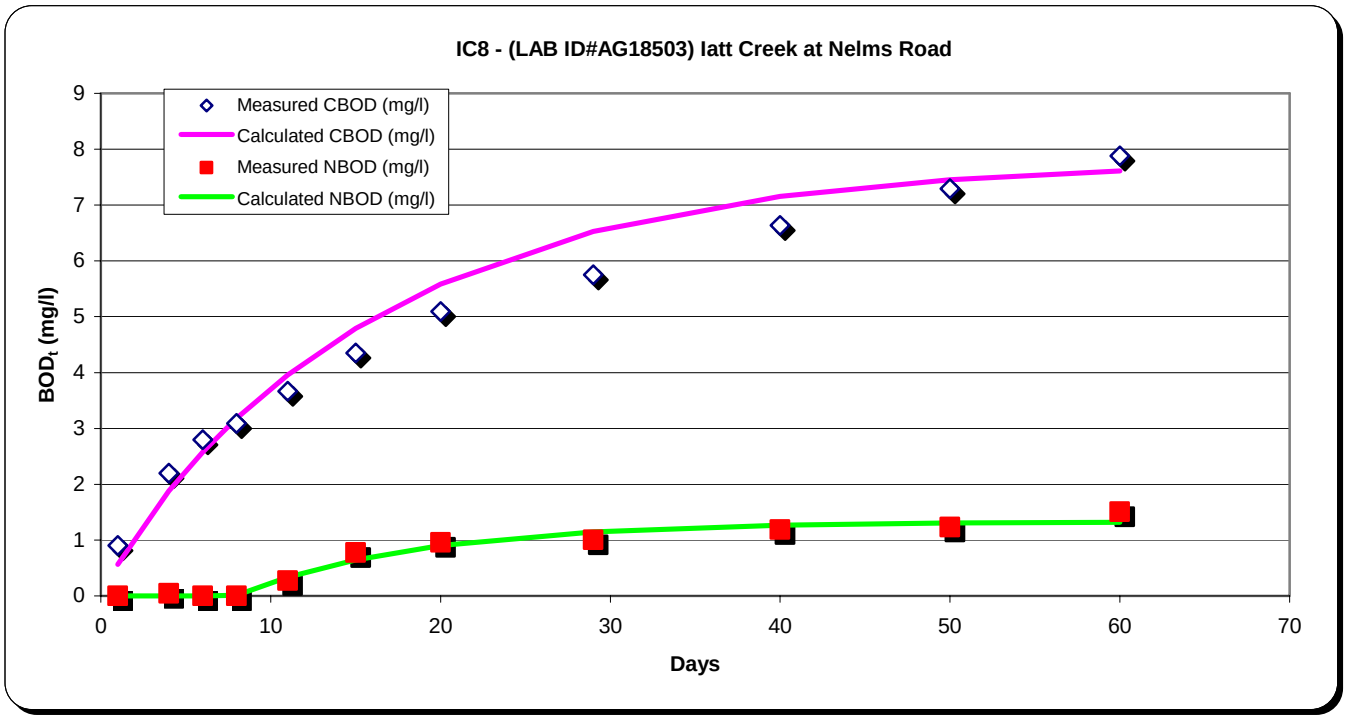
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.3300605 | 7.5422583 |
| k rate (1/day) | 0.094375 | 0.0611458 |
| Lag time (days) | 7.9236112 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

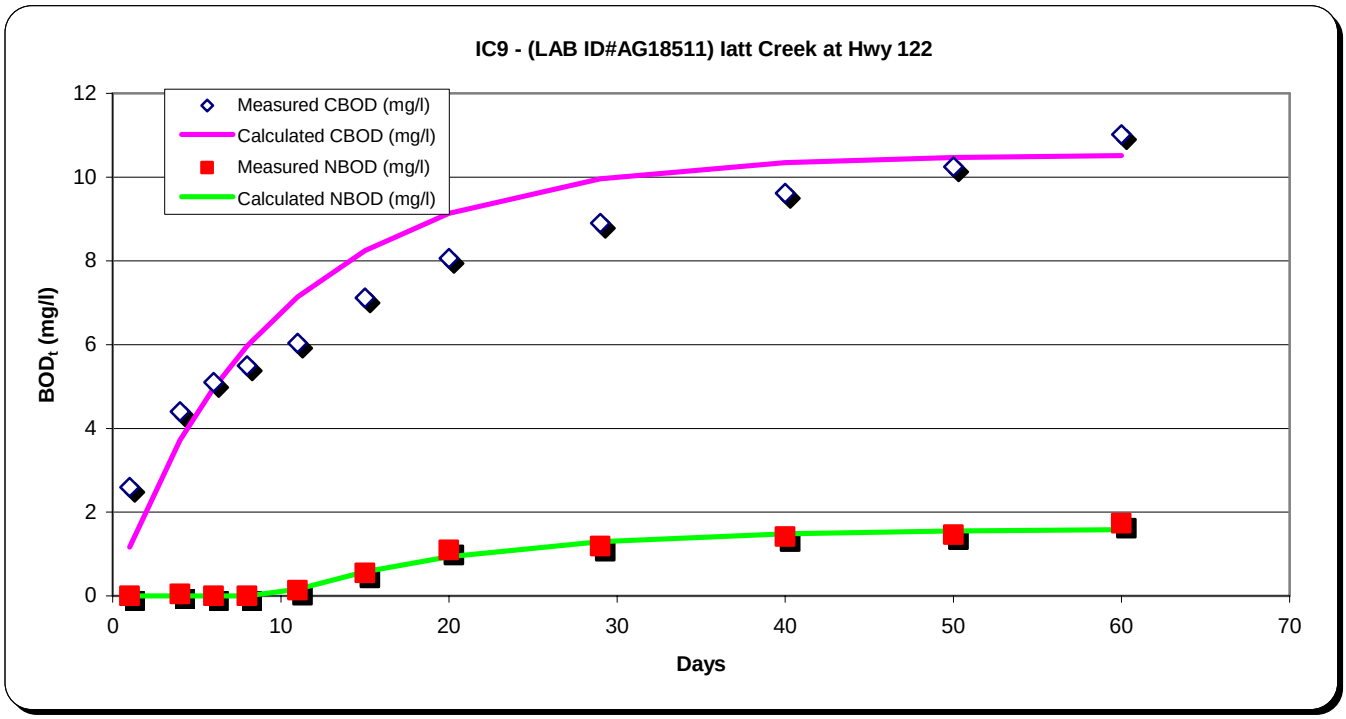
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.6019332 | 10.036985 |
| k rate (1/day) | 0.0863542 | 0.0983854 |
| Lag time (days) | 9.770834 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

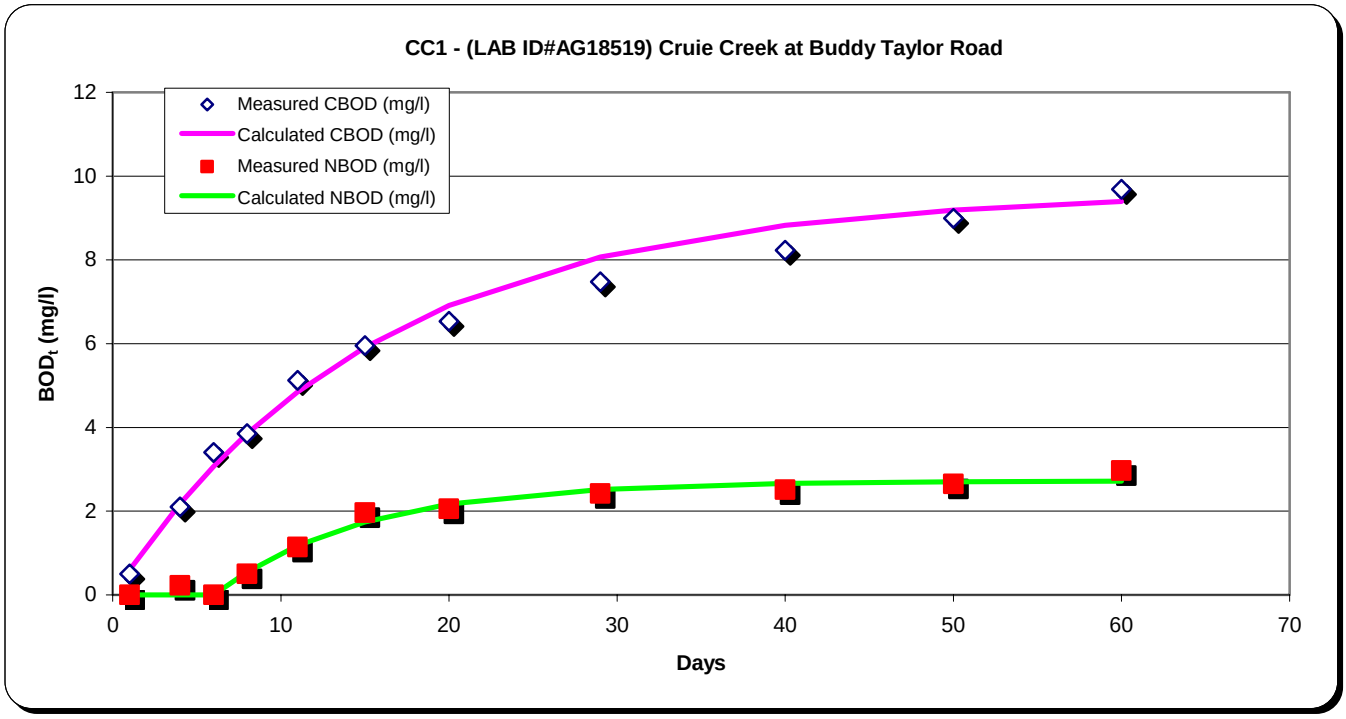
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 2.7229586 | 9.324255 |
| k rate (1/day) | 0.1138542 | 0.0657292 |
| Lag time (days) | 6.0277777 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

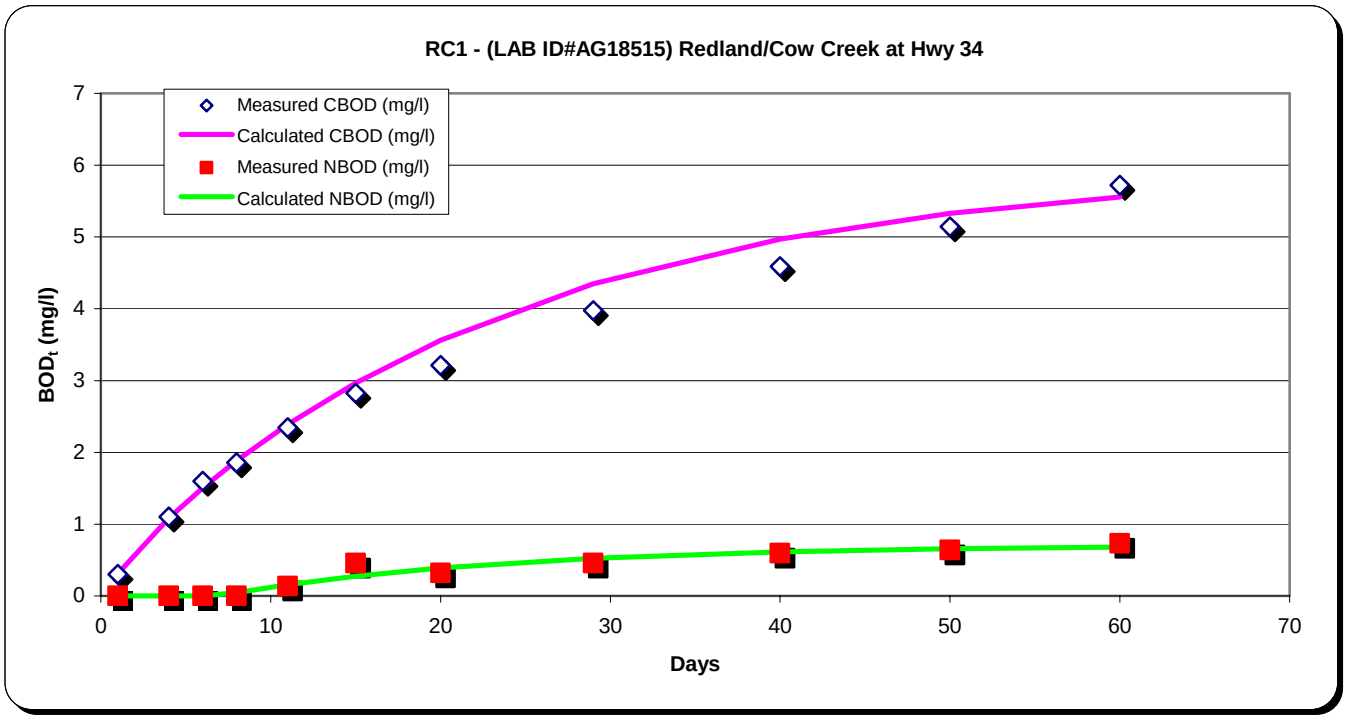
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 0.7041185 | 5.8079057 |
| k rate (1/day) | 0.0622917 | 0.0439583 |
| Lag time (days) | 7 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

# Ratio Calcs for CBOD and NBOD to be used in background

| Site | CBOD | NBOD | UBOD | Ratio CBOD to TOTAL | Ratio NBOD to TOTAL | Background CBOD | Background NBOD |
|---|---|---|---|---|---|---|---|
| IC1 | 26.308943 | 1.5118026 | 27.8207456 | 0.945659163 | 0.054340837 | **5.563628076** | **0.319705257** |
| RC1 | 5.8079057 | 0.7041185 | 6.5120242 | 0.891874097 | 0.108125903 | **5.247192601** | **0.636140732** |
| CC1 | 9.324255 | 2.7229586 | 12.0472136 | 0.773976067 | 0.226023933 | **4.553559194** | **1.329774139** |

| Kisatchie Bayou | CBOD | NBOD |
|---|---|---|
| | 1.54 | 4.2 |
| | 1.51 | 4.23 |
| | 1.68 | 4.49 |
| **Average** | **1.5766667** | **4.3066667** |
| | | |
| **UBOD** | **5.8833333** | |

# Appendix G– Historical and Ambient Data

# Appendix G1 – Ambient Data

# Critical Temperature and DO Determinations:

***SITE NUMBER:*** 1222

***SITE DESCRIPTION:*** Iatt Creek southeast of Iatt, Louisiana

| | ***Summer Season*** | ***Winter Season*** |
|---|---|---|
| ***90th Percentile Temperature(°C):*** | 26.92 | 18.33 |
| ***90 % DO Sat (mg/L):*** | 7.18 | 8.46 |
| ***Months:*** | May To Oct | Nov To Apr |

| ***Date*** | ***Water Temp. (°C)*** | ***DO (mg/L)*** |
|---|---|---|
| 12/16/2002 | 10.59 | 10.60 |
| 11/19/2002 | 13.13 | 3.85 |
| 10/21/2002 | 18.00 | 3.35 |
| 9/23/2002 | 23.81 | 1.95 |
| 8/19/2002 | 26.64 | 3.55 |
| 7/22/2002 | 27.35 | 0.21 |
| 6/17/2002 | 24.11 | 1.90 |
| 5/20/2002 | 18.65 | 1.12 |
| 4/15/2002 | 21.55 | 2.96 |
| 3/25/2002 | 16.18 | 5.35 |
| 2/25/2002 | 13.21 | 7.04 |
| 1/28/2002 | 12.41 | 7.63 |

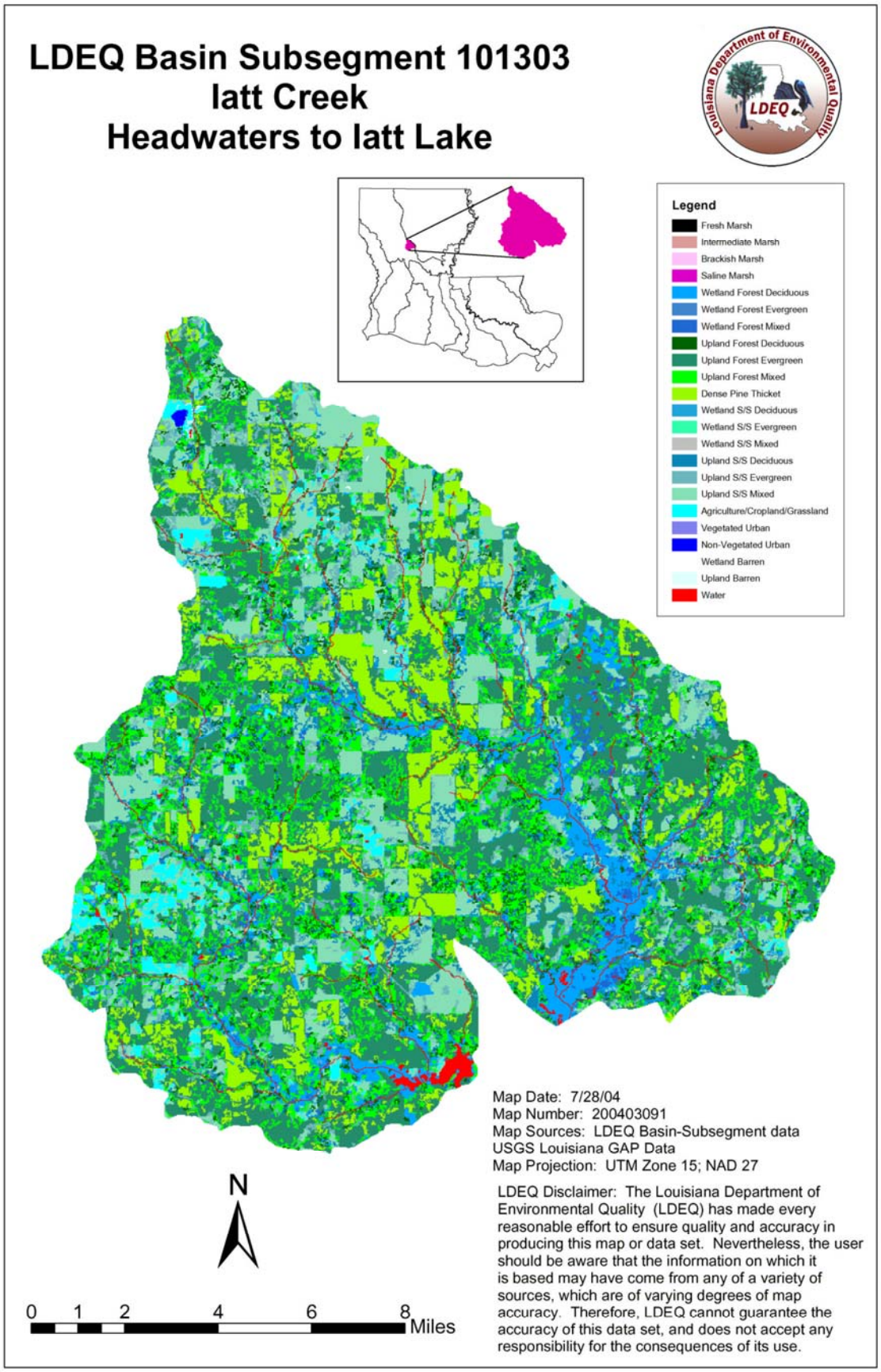
# Appendix G2 – Land Use

# Land Use Summary

***Subsegment*** 101303

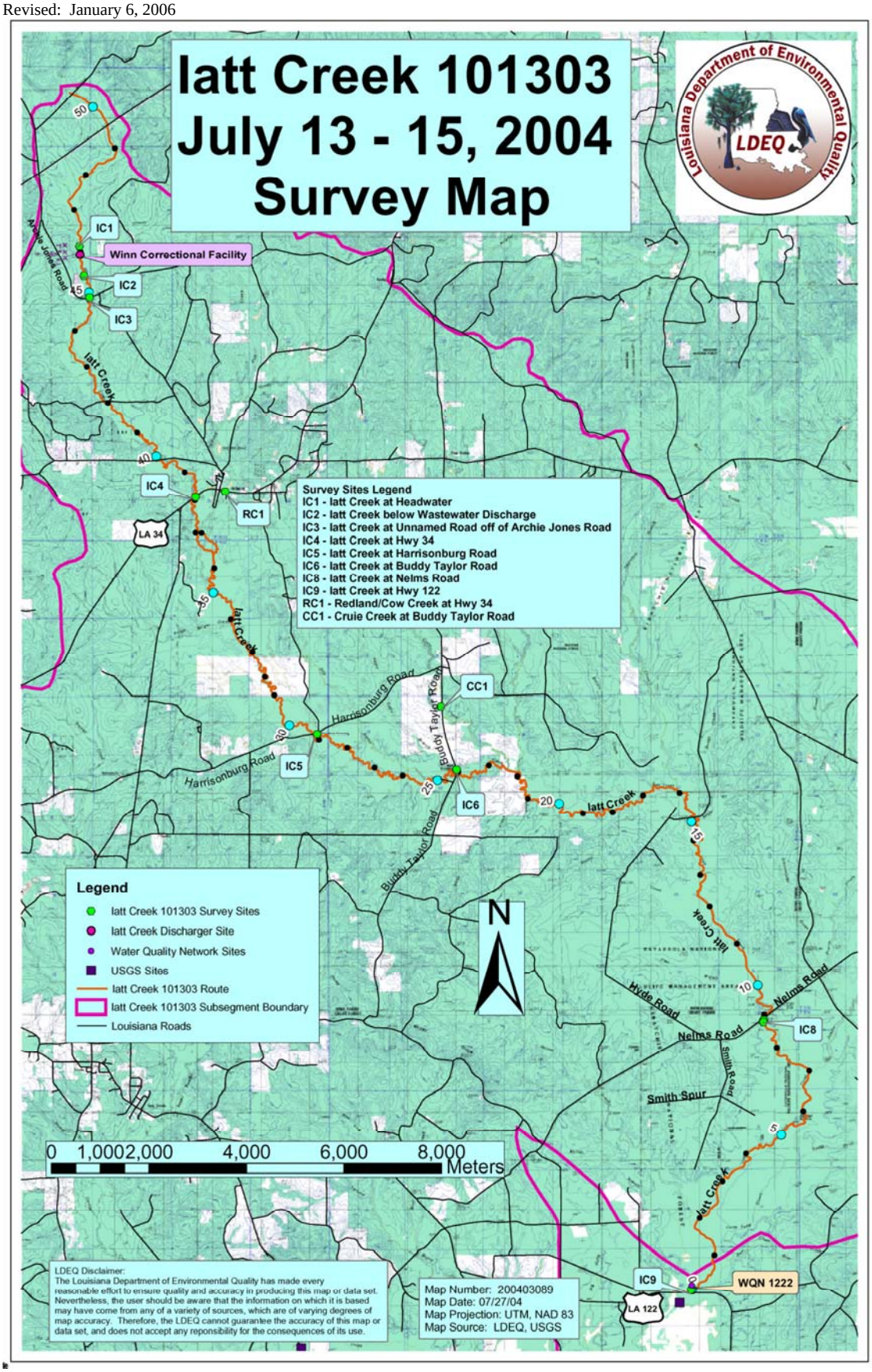
***Data Source Name:*** LA-GAP June 2000

| Grid Name | Area (Acres) | % Land Use |
|---|---|---|
| Upland Forest Evergreen | 33699.51 | 30.89 |
| Upland S/S Mixed | 18045.99 | 16.54 |
| Upland Forest Mixed | 16619.58 | 15.23 |
| Dense Pine Thicket | 12533.74 | 11.49 |
| Wetland Forest Deciduous | 7608.79 | 6.97 |
| Upland S/S Evergreen | 6509.50 | 5.97 |
| Upland Forest Deciduous | 3803.62 | 3.49 |
| Water | 2922.71 | 2.68 |
| Wetland Forest Mixed | 2836.64 | 2.60 |
| Agriculture/Cropland/Grassland | 2568.44 | 2.35 |
| Upland S/S Deciduous | 1782.49 | 1.63 |
| Non-Vegetated Urban | 55.60 | 0.05 |
| Upland Barren | 52.93 | 0.05 |
| Wetland S/S Deciduous | 48.93 | 0.04 |

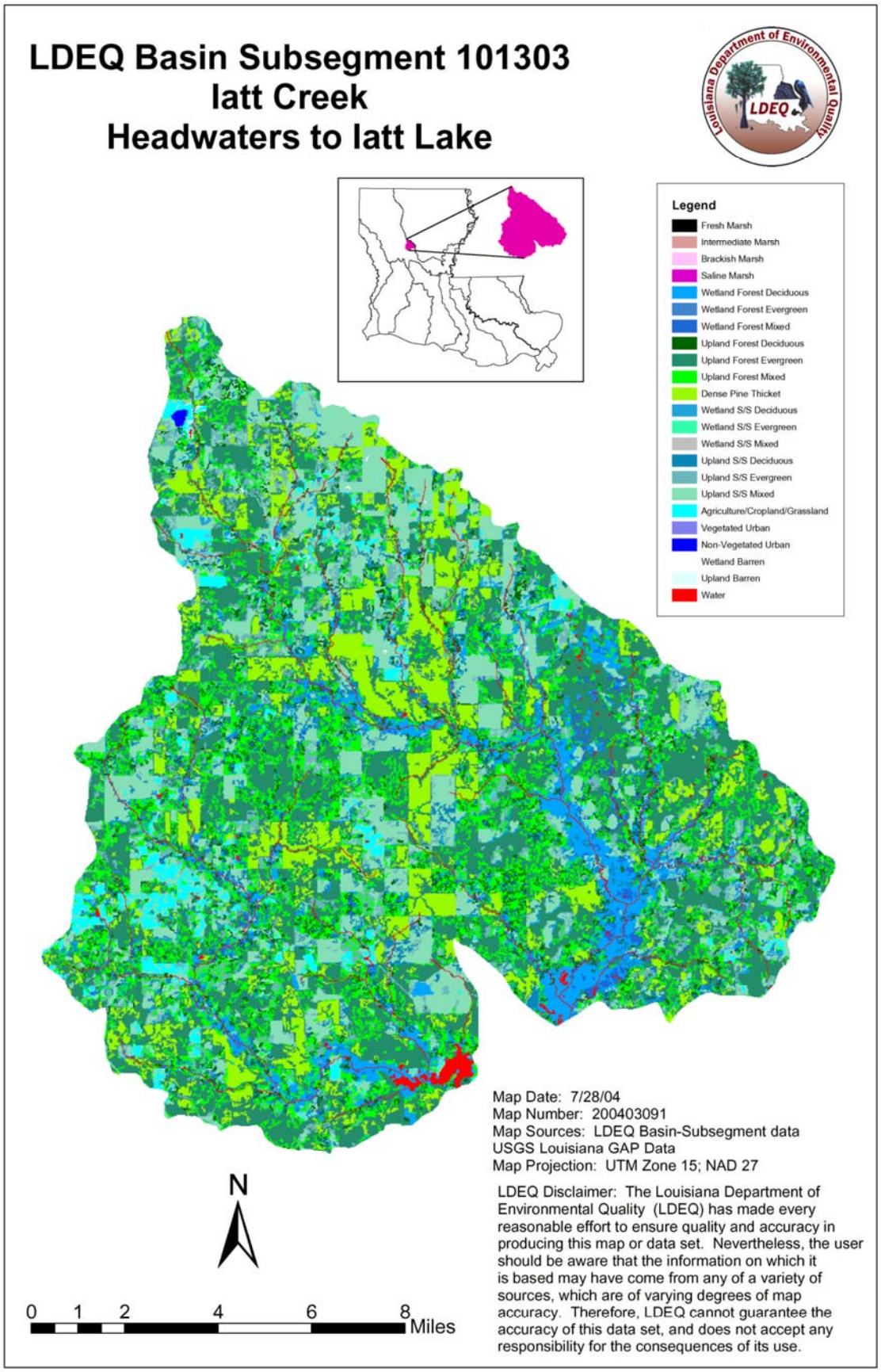

LDEQ Basin Subsegment 101303
Iatt Creek
Headwaters to Iatt Lake
Louisiana Department of Environmental Quality
LDEQ
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
Wetland Forest Deciduous
Wetland Forest Evergreen
Wetland Forest Mixed
Upland Forest Deciduous
Upland Forest Evergreen
Upland Forest Mixed
Dense Pine Thicket
Wetland S/S Deciduous
Wetland S/S Evergreen
Wetland S/S Mixed
Upland S/S Deciduous
Upland S/S Evergreen
Upland S/S Mixed
Agriculture/Cropland/Grassland
Vegetated Urban
Non-Vegetated Urban
Wetland Barren
Upland Barren
Water
Map Date: 7/28/04
Map Number: 200403091
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
N
0 1 2 4 6 8 Miles

# Appendix H – Maps and Diagrams

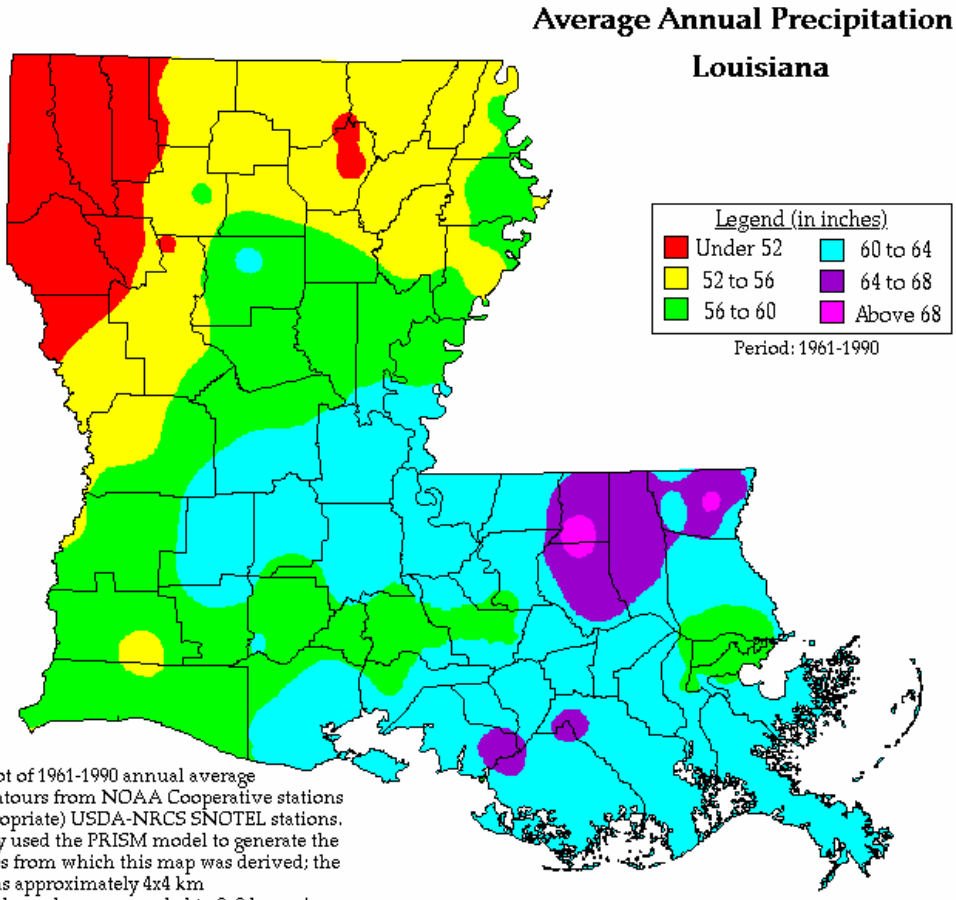
# Appendix H1- Overview map


Iatt Creek 101303
July 13 - 15, 2004
Survey Map
Louisiana Department of Environmental Quality
LDEQ
Winn Correctional Facility
IC1
IC2
IC3
IC4
RC1
IC5
IC6
CC1
IC8
IC9
WQN 1222
LA 34
LA 122
Iatt Creek
Archie Jones Road
Harrisonburg Road
Buddy Taylor Road
Hyde Road
Nelms Road
Smith Road
Smith Spur
Survey Sites Legend
IC1 - Iatt Creek at Headwater
IC2 - Iatt Creek below Wastewater Discharge
IC3 - Iatt Creek at Unnamed Road off of Archie Jones Road
IC4 - Iatt Creek at Hwy 34
IC5 - Iatt Creek at Harrisonburg Road
IC6 - Iatt Creek at Buddy Taylor Road
IC8 - Iatt Creek at Nelms Road
IC9 - Iatt Creek at Hwy 122
RC1 - Redland/Cow Creek at Hwy 34
CC1 - Cruie Creek at Buddy Taylor Road
Legend
Iatt Creek 101303 Survey Sites
Iatt Creek Discharger Site
Water Quality Network Sites
USGS Sites
Iatt Creek 101303 Route
Iatt Creek 101303 Subsegment Boundary
Louisiana Roads
N
0 1,000 2,000 4,000 6,000 8,000
Meters
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
Map Number: 200403089
Map Date: 07/27/04
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS

# Appendix H2 – Land Use Map


LDEQ Basin Subsegment 101303
Iatt Creek
Headwaters to Iatt Lake
Louisiana Department of Environmental Quality
LDEQ
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
Wetland Forest Deciduous
Wetland Forest Evergreen
Wetland Forest Mixed
Upland Forest Deciduous
Upland Forest Evergreen
Upland Forest Mixed
Dense Pine Thicket
Wetland S/S Deciduous
Wetland S/S Evergreen
Wetland S/S Mixed
Upland S/S Deciduous
Upland S/S Evergreen
Upland S/S Mixed
Agriculture/Cropland/Grassland
Vegetated Urban
Non-Vegetated Urban
Wetland Barren
Upland Barren
Water
Map Date: 7/28/04
Map Number: 200403091
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
N
0 1 2 4 6 8 Miles

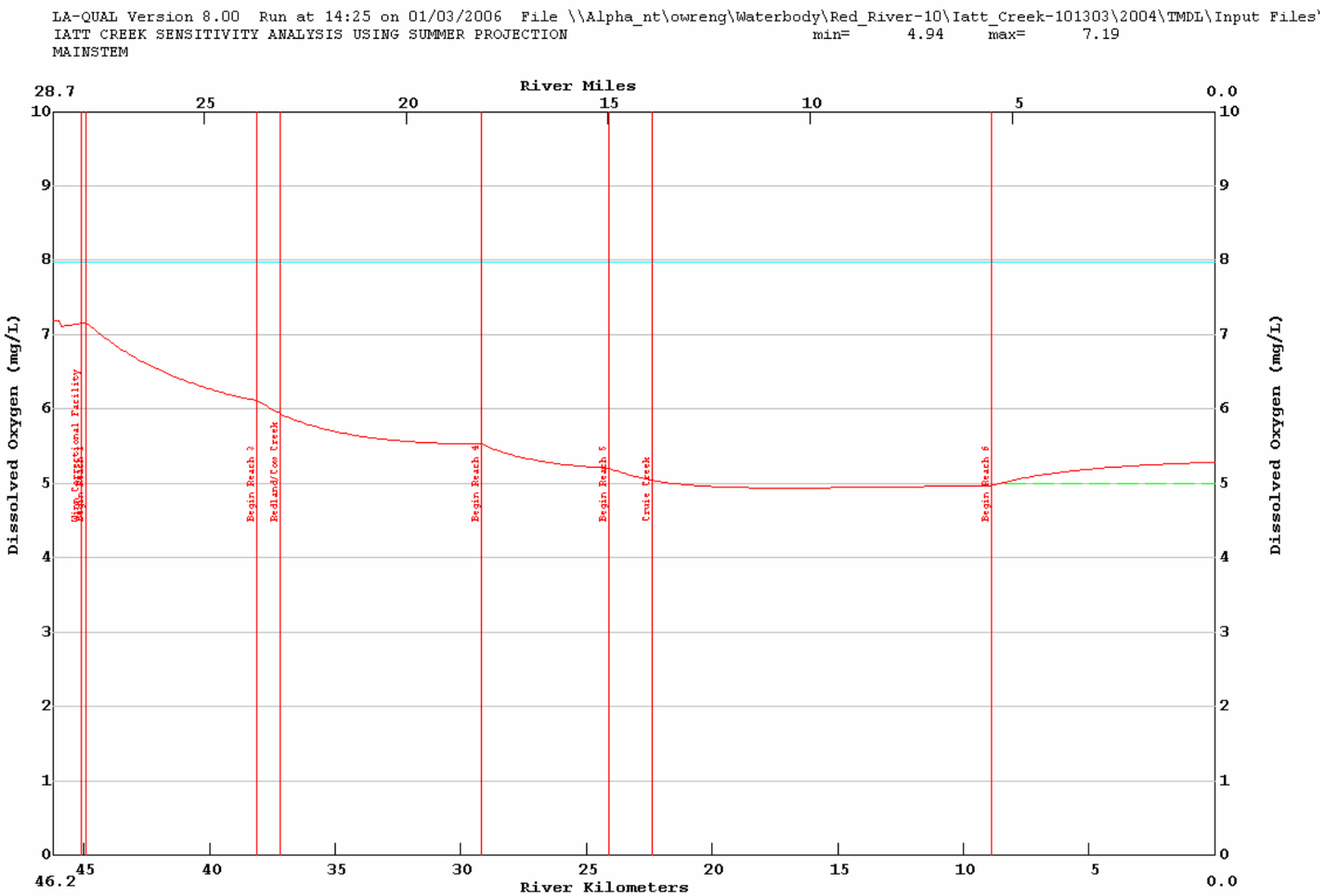
# Appendix H3 – La Precipitation Map



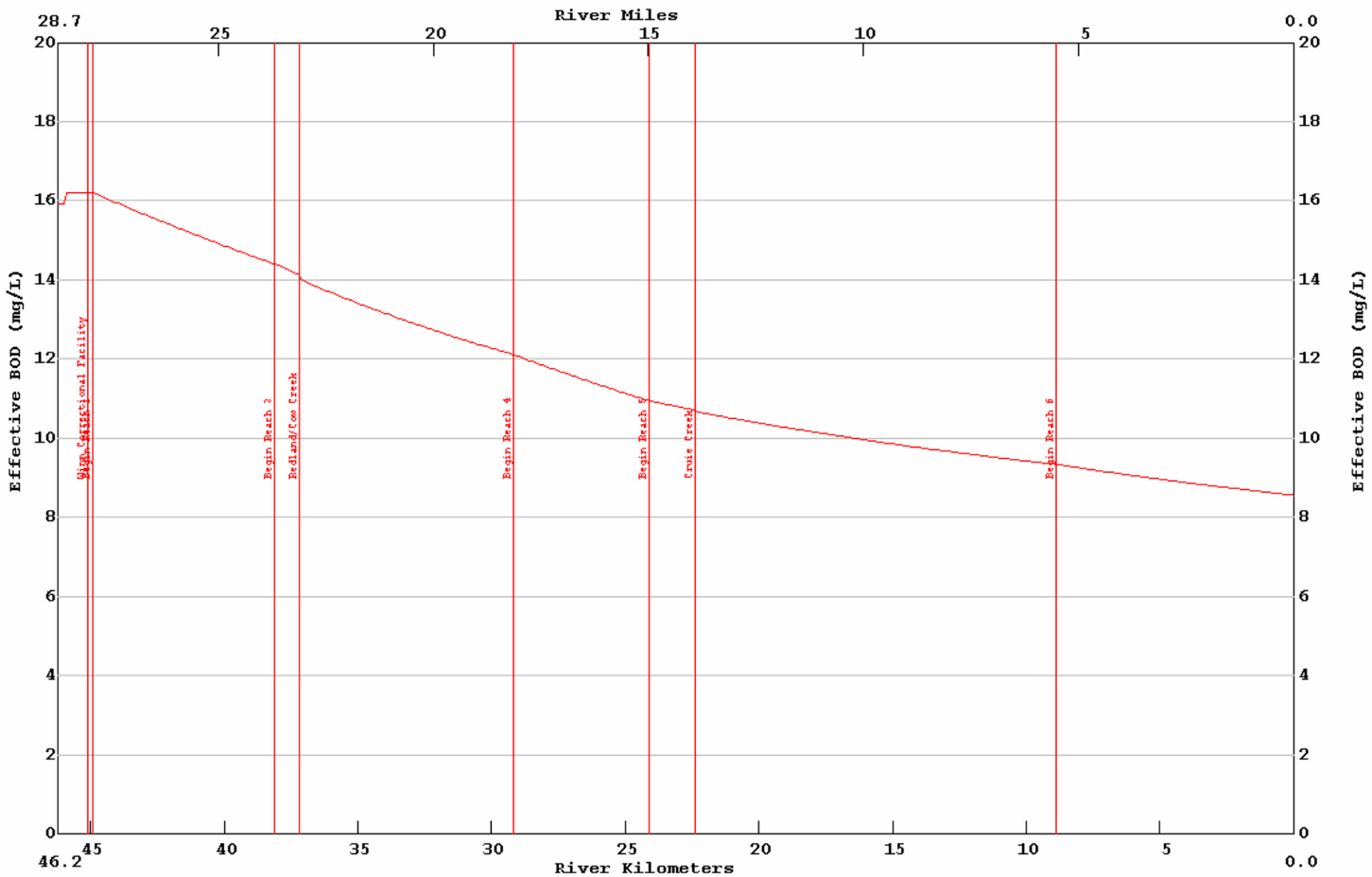

This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, and was resampled to 2x2 km using a Gaussian filter. Mapping was performed by Jenny Weisburg. Funding was provided by USDA-NRCS National Water and Climate Center.

# Appendix I – Sensitivity Analysis

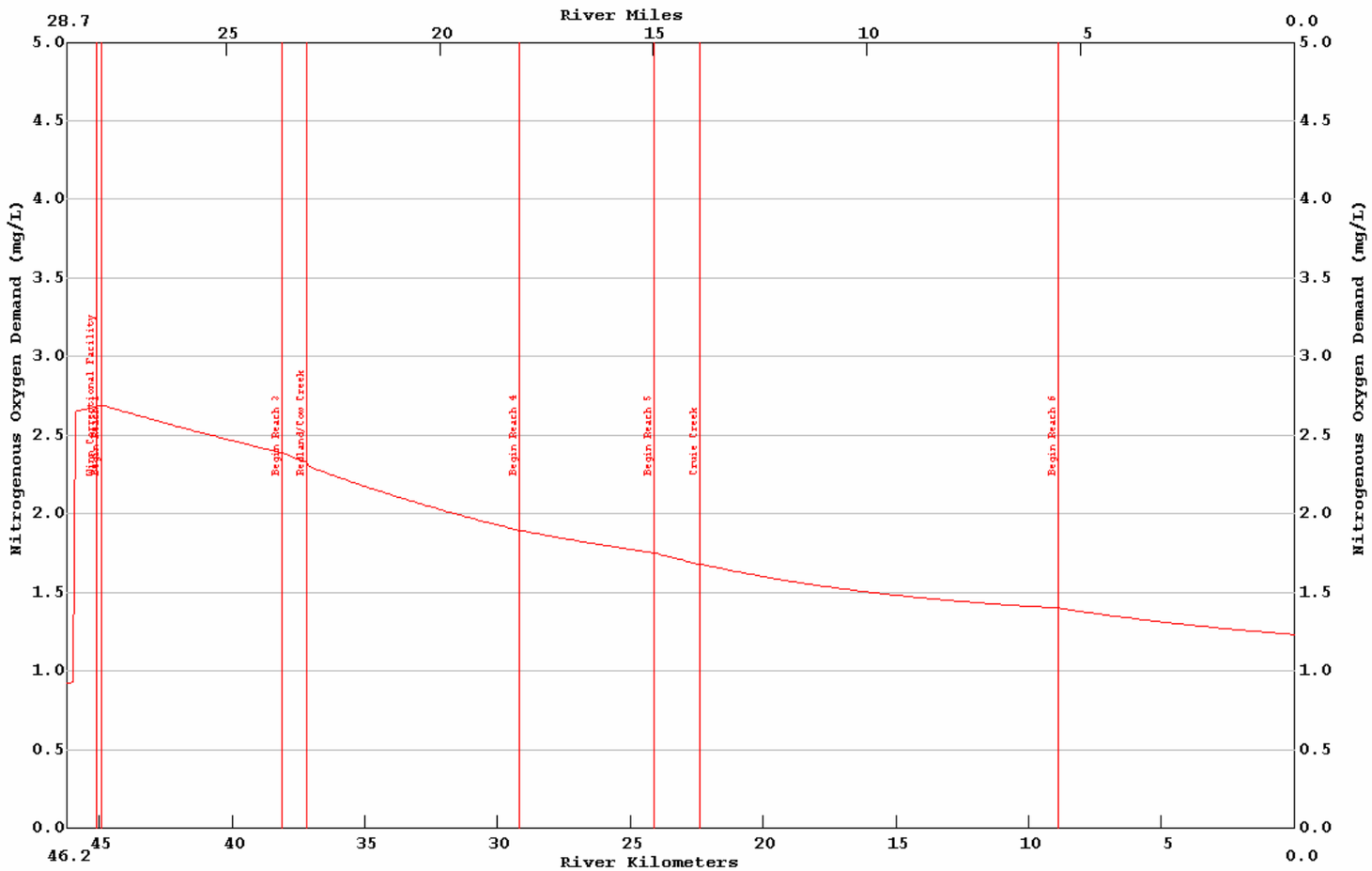
# Appendix I1 – Sensitivity Output Graphs


LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 4.94 max= 7.19
MAINSTEM
River Miles
28.7
25
20
15
10
5
0.0
Dissolved Oxygen (mg/L)
Begin Reach 2
Redland/Coon Creek
Begin Reach 4
Begin Reach 5
Cruse Creek
Begin Reach 6
46.2
45
40
35
30
25
20
15
10
5
0.0
River Kilometers

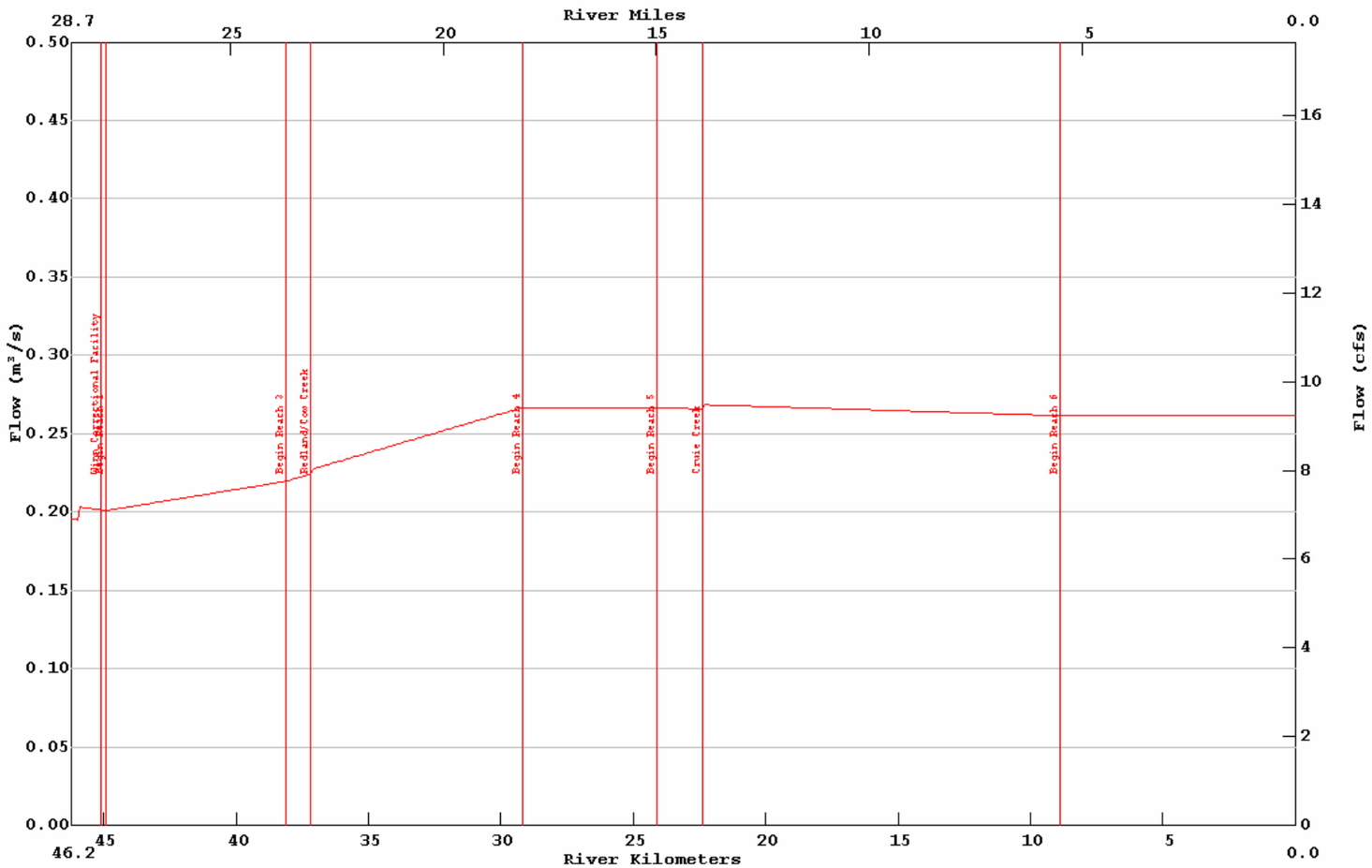
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 8.56 max= 16.21
MAINSTEM



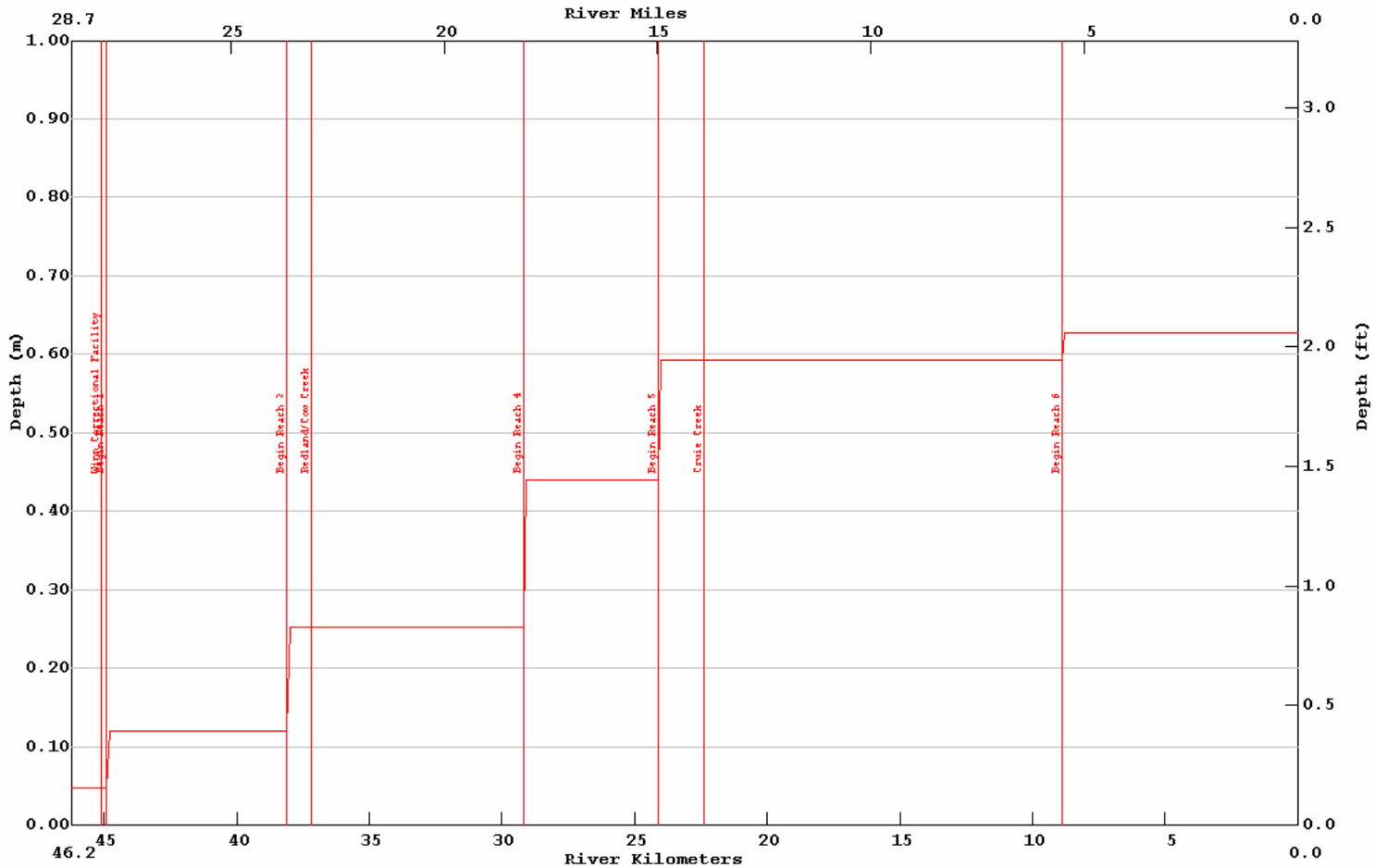
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 0.92 max= 2.69
MAINSTEM



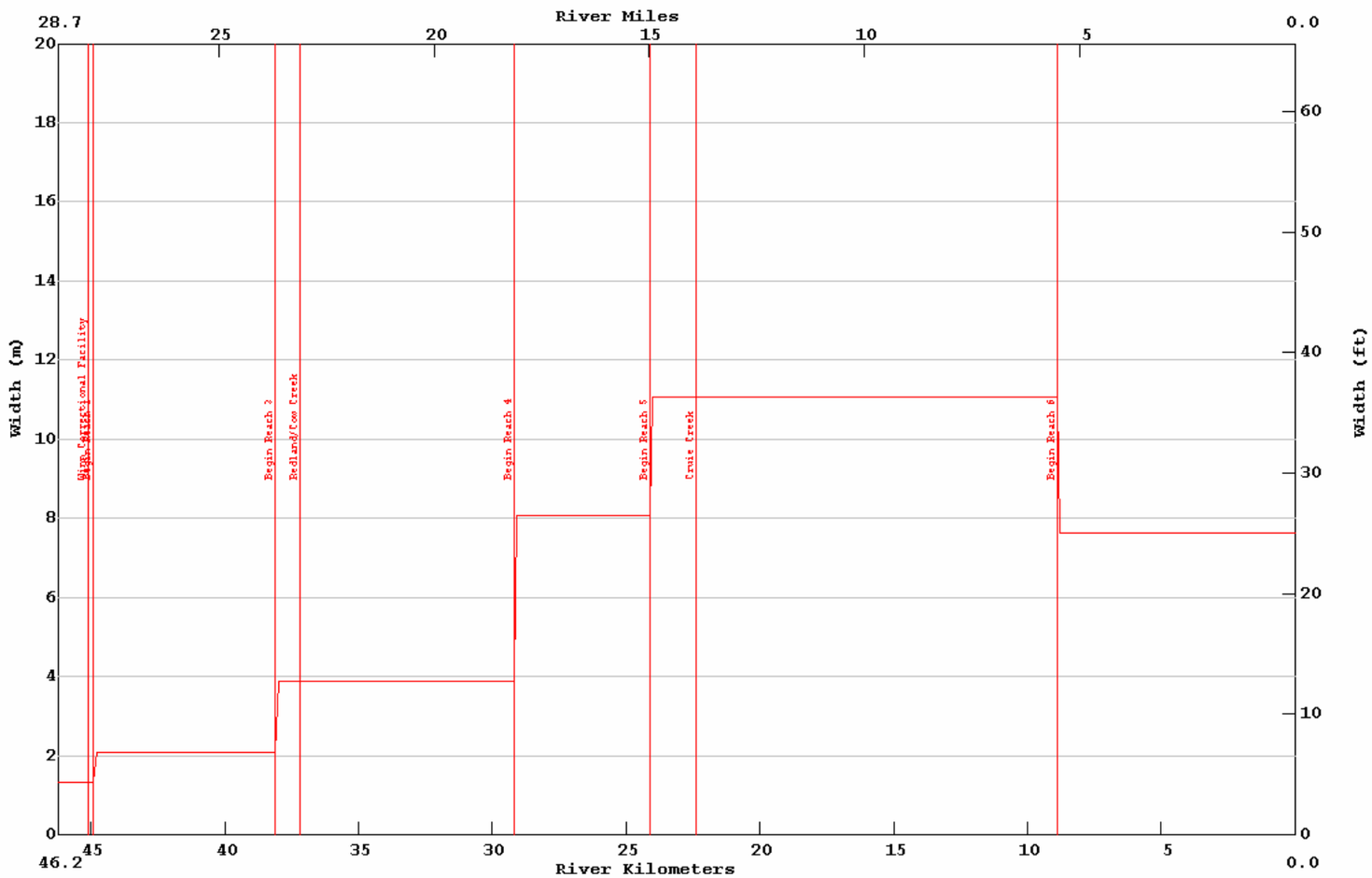
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 0.19 max= 0.27
MAINSTEM



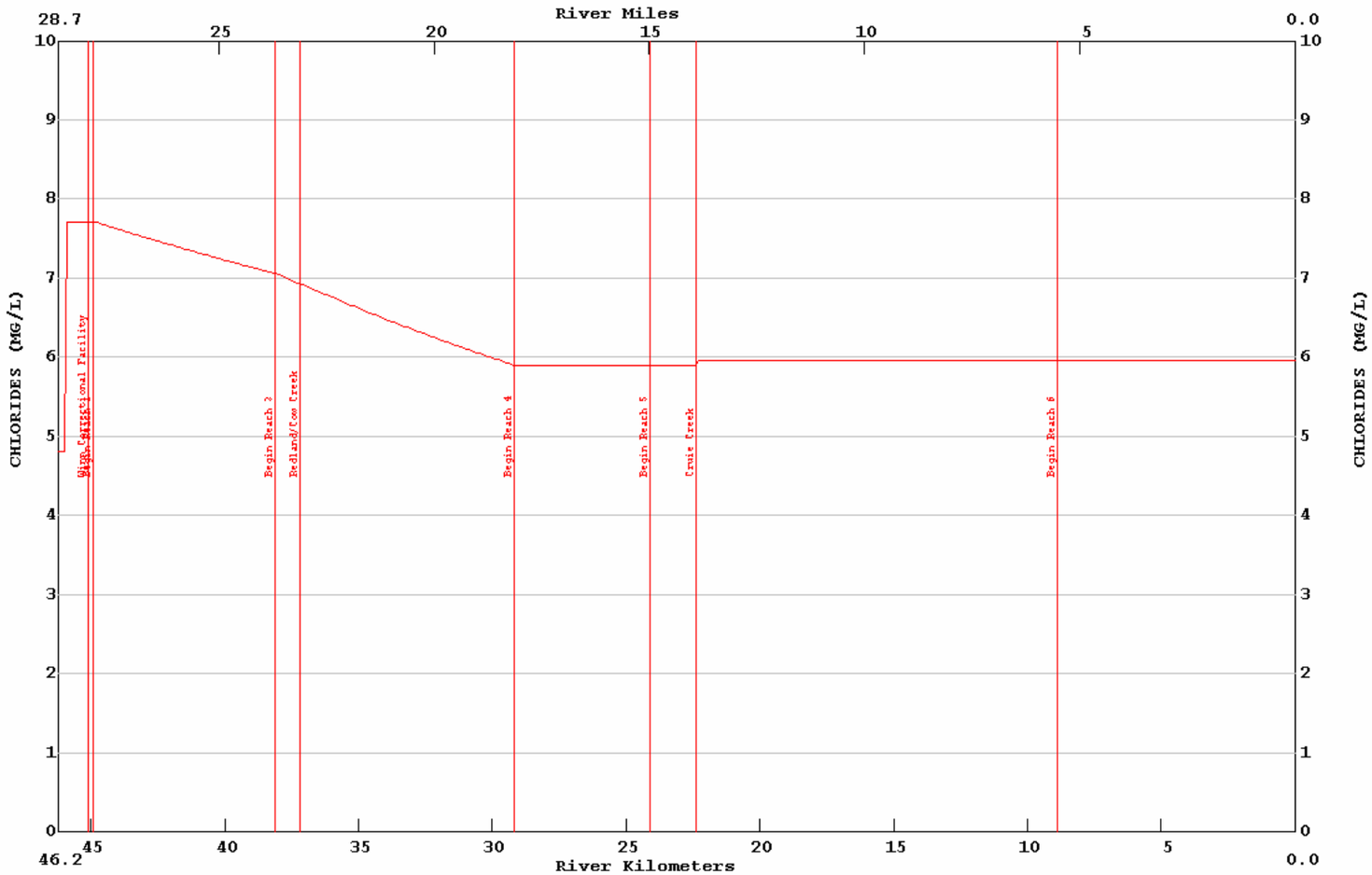
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 0.05 max= 0.63
MAINSTEM



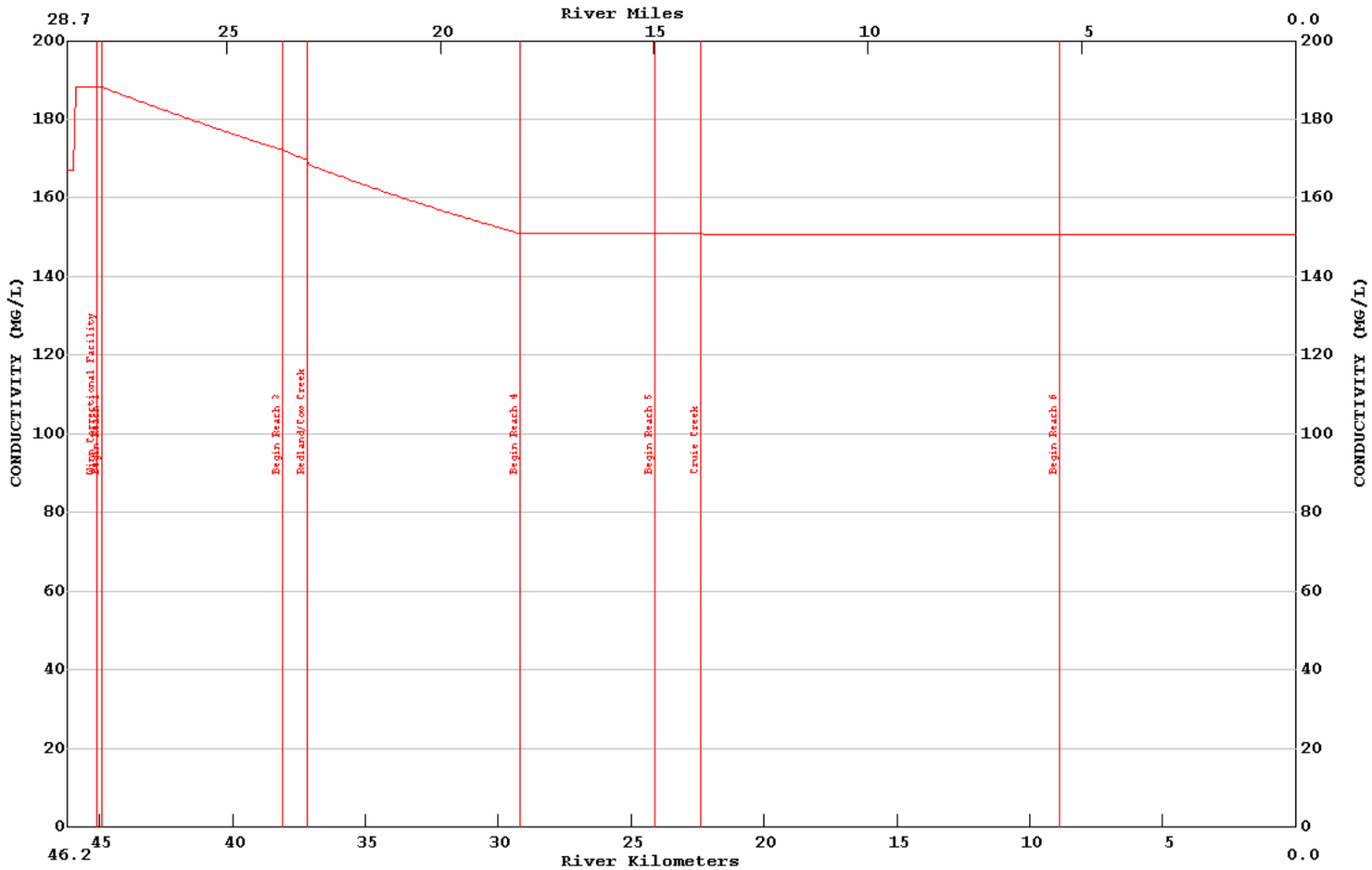
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 1.32 max= 11.07
MAINSTEM



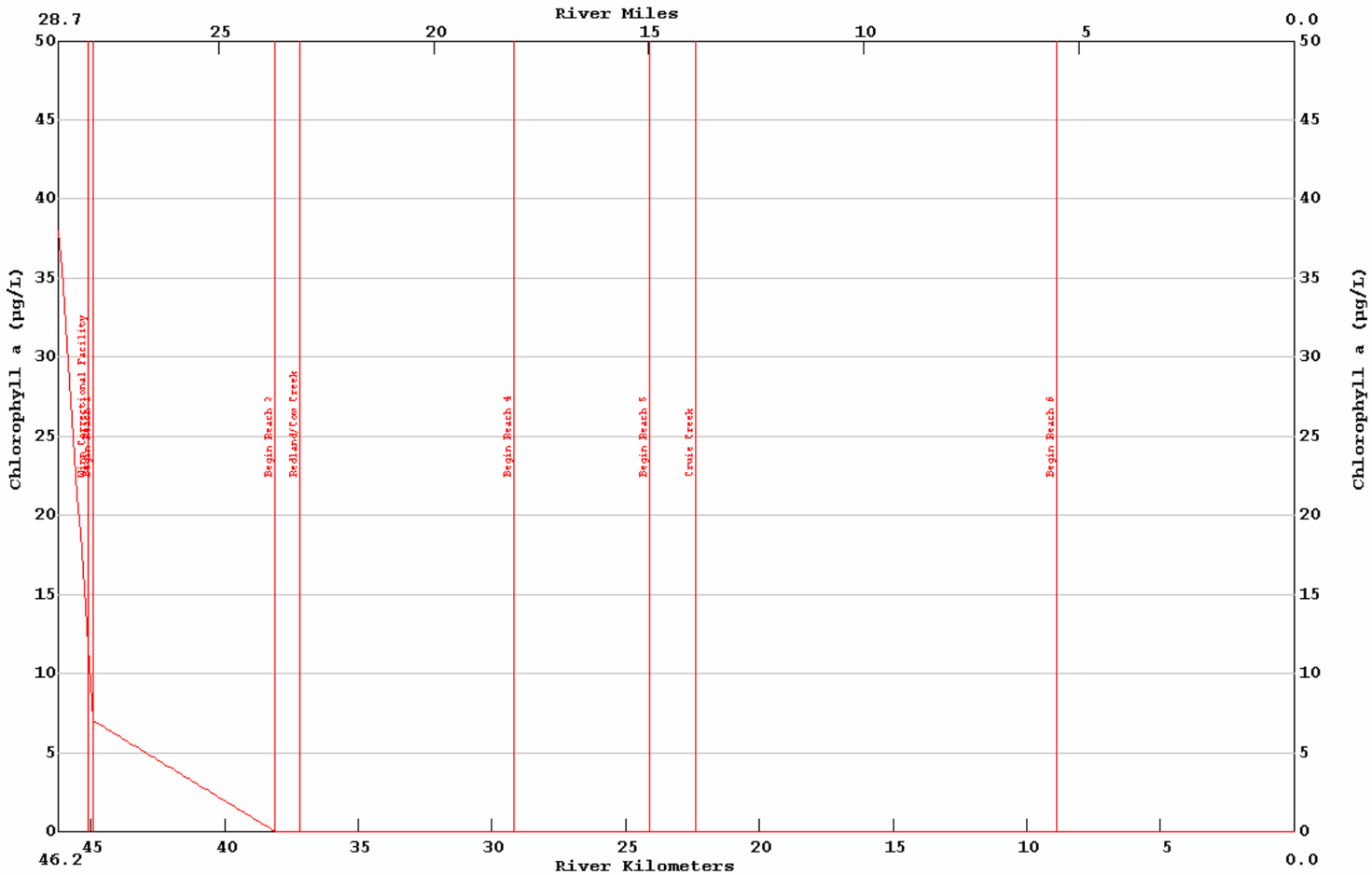
LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 4.80 max= 7.71
MAINSTEM



LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 150.67 max= 188.08
MAINSTEM



LA-QUAL Version 8.00 Run at 14:25 on 01/03/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION min= 0.00 max= 38.00
MAINSTEM



# Appendix I2 – Sensitivity Output Data Set

SENSITIVITY ANALYSIS SUMMARY

MAINSTEM
IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

Plot 1 Base Model Minimum DO = 4.94

| Parameter | %Param Chg | Min D.O. | %D.O. Chg | %Param Chg | Min D.O. | %D.O. Chg |
|---|---|---|---|---|---|---|
| Stream Baseflow | 30. | 5.13 | 3.9 | -30. | 4.69 | -5.0 |
| Initial Chorophyll a | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Stream Velocity | 30. | 5.06 | 2.4 | -30. | 4.80 | -2.7 |
| Initial Temperature | 2. | 4.42 | -10.5 | -2. | 5.45 | 10.4 |
| CBOD Aerobic Decay Rate | 30. | 4.80 | -2.8 | -30. | 5.09 | 3.1 |
| CBOD Settling Rate | 30. | 4.98 | 0.9 | -30. | 4.89 | -1.0 |
| NBOD Decay Rate | 30. | 4.91 | -0.6 | -30. | 4.97 | 0.7 |
| NBOD Settling Rate | 30. | 4.95 | 0.3 | -30. | 4.92 | -0.4 |
| Benthal Demand | 30. | 4.26 | -13.8 | -30. | 5.62 | 13.8 |
| Stream Dispersion | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Stream Reaeration | 30. | 5.63 | 14.0 | -30. | 3.67 | -25.7 |
| Headwater Flow | 30. | 5.06 | 2.5 | -30. | 4.78 | -3.2 |
| Headwater DO | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Headwater CBOD | 30. | 4.82 | -2.4 | -30. | 5.05 | 2.3 |
| Headwater NBOD | 30. | 4.93 | -0.1 | -30. | 4.95 | 0.1 |
| Stream Depth | 30. | 4.70 | -4.8 | -30. | 5.23 | 5.9 |
| Incremental Inflow | 30. | 5.02 | 1.7 | -30. | 4.85 | -1.9 |
| Incremental Outflow | 30. | 4.93 | -0.1 | -30. | 4.94 | 0.1 |
| Incremental Temperature | 2. | 4.94 | 0.0 | -2. | 4.94 | 0.0 |
| Incremental DO | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Incremental CBOD | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Incremental NBOD | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Wasteload Flow | 30. | 4.93 | -0.1 | -30. | 4.94 | 0.1 |
| Wasteload Temperature | 2. | 4.94 | 0.0 | -2. | 4.94 | 0.0 |
| Wasteload DO | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Wasteload CBOD | 30. | 4.93 | -0.2 | -30. | 4.95 | 0.2 |
| Wasteload NBOD | 30. | 4.92 | -0.3 | -30. | 4.95 | 0.3 |
| Lower Boundary Temperature | 2. | 4.94 | 0.0 | -2. | 4.94 | 0.0 |
| Lower Boundary DO | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Lower Boundary CBOD | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |
| Lower Boundary NBOD | 30. | 4.94 | 0.0 | -30. | 4.94 | 0.0 |

## Iatt Creek 101303 Sensitivity Analysis Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
```

```
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    26.92          5.00                          38.00
INITIAL     2    26.92          5.00                           7.00
INITIAL     3    26.92          5.00
INITIAL     4    26.92          5.00                           0.00
INITIAL     5    26.92          5.00
INITIAL     6    26.92          5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!               REA    KL                     BOD 1  BOD 1               BOD 2    BOD 2
!          R#   EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                     0.31 0.0405 0.20
COEF-1      2  11.00                     2.04 0.0555 0.20
COEF-1      3  11.00                     1.67 0.0640 0.15
COEF-1      4  11.00                     1.47 0.0669 0.15
COEF-1      5  11.00                     1.28 0.0646 0.05
COEF-1      6  11.00                     1.26 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  26.920              0         0
INCR-1      2     0.0000  0.0187  26.920              0         0
INCR-1      3     0.0000  0.0442  26.920              0        50
INCR-1      4     0.0000  0.0000  26.920              0        50
INCR-1      5    -0.0079  0.0000  26.920              0        50
INCR-1      6     0.0000  0.0000  26.920              0        50
```

```
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     35.0     4.0
NONPOINT    4     29.0     8.0
NONPOINT    5    112.0    48.0
NONPOINT    6     59.0    17.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
```

```
!          E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.1954   26.92  0.07     4.8     167.10
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.18    15.93    0.92
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0083    26.92     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0028    26.92     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0028    26.92     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.52         0.67
WSTLD-2   239      5.00    6.94         2.03
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
```

```
WSTLD-3     3
WSTLD-3    91
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  26.92
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV VELOCITY   30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV DEPTH      30    -30
SENSITIV INC INFL   30    -30
SENSITIV INC OUTF   30    -30
SENSITIV INC TEMP    2     -2
SENSITIV INC DO     30    -30
SENSITIV INC BOD    30    -30
SENSITIV INC NBOD   30    -30
```

```
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC NBOD   30    -30
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Sensitivity Analysis Output Data Set

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files\Iattsum60sensi.txt
Output produced at 14:32 on 01/03/2006

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       26.92      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       26.92      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.310     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.040     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.670     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.470     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.280     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.260     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000     0.000     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

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      -0.00280     0.00000     26.92      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     26.92      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     26.92      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.92      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       35.00      4.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       29.00      8.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC      112.00     48.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       59.00     17.00      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      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   26.92     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   7.18     15.93      0.92      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00830    0.29308    0.189   26.92     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.00280    0.09887    0.064   26.92     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.00280    0.09887    0.064   26.92     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.52      0.00      0.67      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      6.94      0.00      2.03      0.00      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
```

```
WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     26.920     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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

SENSITIV         BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC INFL      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC OUTF      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
```

```
SENSITIV         INC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

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


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

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


OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21


FINAL REPORT    HEADWATER                                       IATT CREEK WATERSHED MODEL
REACH NO.  1    HEADWATER - SITE 3                              IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION


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

 ELEM  TYPE        FLOW     TEMP     SALN     CM-I    CM-II     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     MG/L     MG/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     0.19540   26.92     0.07     4.80   167.10   7.18  15.93   0.00  15.93   0.00   0.92   0.00   0.00   0.00  38.00     0.00     0.00
 EACH  INCR      -0.00022
    3  WSTLD     0.00830   26.92     0.35    76.10   680.80   5.00  23.00   0.00  23.00   0.00  43.00   0.00   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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.20305 | 4.1 | 3.20234 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.202 |
| 4 | 45.90 | 45.80 | 0.20284 | 4.1 | 3.19894 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.199 |
| 5 | 45.80 | 45.70 | 0.20262 | 4.1 | 3.19554 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.196 |
| 6 | 45.70 | 45.60 | 0.20241 | 4.1 | 3.19215 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.192 |
| 7 | 45.60 | 45.50 | 0.20219 | 4.1 | 3.18875 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.189 |
| 8 | 45.50 | 45.40 | 0.20198 | 4.1 | 3.18535 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.185 |
| 9 | 45.40 | 45.30 | 0.20176 | 4.1 | 3.18196 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.182 |
| 10 | 45.30 | 45.20 | 0.20155 | 4.1 | 3.17856 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.179 |
| 11 | 45.20 | 45.10 | 0.20133 | 4.1 | 3.17516 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.175 |
| 12 | 45.10 | 45.00 | 0.20112 | 4.1 | 3.17177 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.172 |
| 13 | 45.00 | 44.90 | 0.20090 | 4.1 | 3.16837 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.168 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.1681 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 45.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 45.800 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 16.21 | 0.00 | 16.21 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 16.21 | 0.00 | 16.21 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 16.21 | 0.00 | 16.21 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.92 | 0.00 | 7.71 | 188.08 | 7.14 | 16.20 | 0.00 | 16.20 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.92 | 0.00 | 7.71 | 188.08 | 7.14 | 16.20 | 0.00 | 16.20 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.92 | 0.00 | 7.71 | 188.08 | 7.15 | 16.20 | 0.00 | 16.20 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.92 | 0.00 | 7.71 | 188.08 | 7.15 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.16 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.20090 | 26.92 | 0.00 | 7.71 | 188.08 | 7.16 | 16.20 | 0.00 | 16.20 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 26.92 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.20118 | 4.1 | 0.80871 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 15 | 44.80 | 44.70 | 0.20145 | 4.1 | 0.80982 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 16 | 44.70 | 44.60 | 0.20173 | 4.1 | 0.81092 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 17 | 44.60 | 44.50 | 0.20200 | 4.1 | 0.81203 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 18 | 44.50 | 44.40 | 0.20228 | 4.1 | 0.81313 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 19 | 44.40 | 44.30 | 0.20255 | 4.0 | 0.81424 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 20 | 44.30 | 44.20 | 0.20283 | 4.0 | 0.81534 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 21 | 44.20 | 44.10 | 0.20310 | 4.0 | 0.81645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 22 | 44.10 | 44.00 | 0.20338 | 4.0 | 0.81756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 23 | 44.00 | 43.90 | 0.20365 | 4.0 | 0.81866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.819 |
| 24 | 43.90 | 43.80 | 0.20393 | 4.0 | 0.81977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 25 | 43.80 | 43.70 | 0.20420 | 4.0 | 0.82087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 26 | 43.70 | 43.60 | 0.20448 | 4.0 | 0.82198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 27 | 43.60 | 43.50 | 0.20475 | 4.0 | 0.82308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 28 | 43.50 | 43.40 | 0.20503 | 4.0 | 0.82419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 29 | 43.40 | 43.30 | 0.20530 | 4.0 | 0.82529 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 30 | 43.30 | 43.20 | 0.20558 | 4.0 | 0.82640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 43.20 | 43.10 | 0.20585 | 4.0 | 0.82750 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |
| 32 | 43.10 | 43.00 | 0.20613 | 4.0 | 0.82861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.829 |
| 33 | 43.00 | 42.90 | 0.20640 | 4.0 | 0.82972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |
| 34 | 42.90 | 42.80 | 0.20668 | 4.0 | 0.83082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 35 | 42.80 | 42.70 | 0.20695 | 4.0 | 0.83193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 36 | 42.70 | 42.60 | 0.20723 | 4.0 | 0.83303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 37 | 42.60 | 42.50 | 0.20750 | 4.0 | 0.83414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 38 | 42.50 | 42.40 | 0.20778 | 3.9 | 0.83524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 39 | 42.40 | 42.30 | 0.20805 | 3.9 | 0.83635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 40 | 42.30 | 42.20 | 0.20833 | 3.9 | 0.83745 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 41 | 42.20 | 42.10 | 0.20860 | 3.9 | 0.83856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 42 | 42.10 | 42.00 | 0.20888 | 3.9 | 0.83967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.840 |
| 43 | 42.00 | 41.90 | 0.20915 | 3.9 | 0.84077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 44 | 41.90 | 41.80 | 0.20943 | 3.9 | 0.84188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 45 | 41.80 | 41.70 | 0.20970 | 3.9 | 0.84298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 46 | 41.70 | 41.60 | 0.20998 | 3.9 | 0.84409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 47 | 41.60 | 41.50 | 0.21025 | 3.9 | 0.84519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 48 | 41.50 | 41.40 | 0.21053 | 3.9 | 0.84630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 49 | 41.40 | 41.30 | 0.21080 | 3.9 | 0.84740 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 50 | 41.30 | 41.20 | 0.21108 | 3.9 | 0.84851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| 51 | 41.20 | 41.10 | 0.21135 | 3.9 | 0.84961 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.850 |
| 52 | 41.10 | 41.00 | 0.21163 | 3.9 | 0.85072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.851 |
| 53 | 41.00 | 40.90 | 0.21190 | 3.9 | 0.85183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.852 |
| 54 | 40.90 | 40.80 | 0.21218 | 3.9 | 0.85293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.853 |
| 55 | 40.80 | 40.70 | 0.21245 | 3.9 | 0.85404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.854 |
| 56 | 40.70 | 40.60 | 0.21273 | 3.9 | 0.85514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.855 |
| 57 | 40.60 | 40.50 | 0.21300 | 3.9 | 0.85625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.856 |
| 58 | 40.50 | 40.40 | 0.21328 | 3.8 | 0.85735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.857 |
| 59 | 40.40 | 40.30 | 0.21355 | 3.8 | 0.85846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.858 |
| 60 | 40.30 | 40.20 | 0.21383 | 3.8 | 0.85956 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.860 |
| 61 | 40.20 | 40.10 | 0.21410 | 3.8 | 0.86067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.861 |
| 62 | 40.10 | 40.00 | 0.21438 | 3.8 | 0.86177 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.862 |
| 63 | 40.00 | 39.90 | 0.21465 | 3.8 | 0.86288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.863 |
| 64 | 39.90 | 39.80 | 0.21493 | 3.8 | 0.86399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.864 |
| 65 | 39.80 | 39.70 | 0.21520 | 3.8 | 0.86509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.865 |
| 66 | 39.70 | 39.60 | 0.21548 | 3.8 | 0.86620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.866 |
| 67 | 39.60 | 39.50 | 0.21575 | 3.8 | 0.86730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.867 |
| 68 | 39.50 | 39.40 | 0.21603 | 3.8 | 0.86841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.868 |
| 69 | 39.40 | 39.30 | 0.21630 | 3.8 | 0.86951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.870 |
| 70 | 39.30 | 39.20 | 0.21658 | 3.8 | 0.87062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.871 |
| 71 | 39.20 | 39.10 | 0.21685 | 3.8 | 0.87172 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.872 |
| 72 | 39.10 | 39.00 | 0.21713 | 3.8 | 0.87283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.873 |
| 73 | 39.00 | 38.90 | 0.21740 | 3.8 | 0.87394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.874 |
| 74 | 38.90 | 38.80 | 0.21768 | 3.8 | 0.87504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.875 |
| 75 | 38.80 | 38.70 | 0.21795 | 3.8 | 0.87615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.876 |
| 76 | 38.70 | 38.60 | 0.21823 | 3.8 | 0.87725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.877 |
| 77 | 38.60 | 38.50 | 0.21850 | 3.8 | 0.87836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.878 |
| 78 | 38.50 | 38.40 | 0.21878 | 3.7 | 0.87946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.879 |
| 79 | 38.40 | 38.30 | 0.21905 | 3.7 | 0.88057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.881 |
| 80 | 38.30 | 38.20 | 0.21933 | 3.7 | 0.88167 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.882 |
| 81 | 38.20 | 38.10 | 0.21960 | 3.7 | 0.88278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.883 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOT | | | | | | | 0.09 | | | | | 1691.57 | 14096.39 | | | | | | | | | | |
| AVG | | | | | | 0.8452 | | 0.12 | 2.07 | | | | | 0.25 | | | | | | | | | |
| CUM | | | | | | | 0.10 | | | | | | | | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 42.800 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 42.700 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 40.700 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 7.98 | 14.10 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.23 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 26.92 | 0.00 | 7.70 | 187.82 | 7.13 | 16.17 | 0.00 | 16.17 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 26.92 | 0.00 | 7.69 | 187.56 | 7.10 | 16.14 | 0.00 | 16.14 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 26.92 | 0.00 | 7.68 | 187.31 | 7.07 | 16.11 | 0.00 | 16.11 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 26.92 | 0.00 | 7.67 | 187.05 | 7.04 | 16.08 | 0.00 | 16.08 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 26.92 | 0.00 | 7.66 | 186.80 | 7.02 | 16.05 | 0.00 | 16.05 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 26.92 | 0.00 | 7.65 | 186.54 | 6.99 | 16.02 | 0.00 | 16.02 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 26.92 | 0.00 | 7.64 | 186.29 | 6.97 | 15.99 | 0.00 | 15.99 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 26.92 | 0.00 | 7.63 | 186.04 | 6.94 | 15.96 | 0.00 | 15.96 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 26.92 | 0.00 | 7.62 | 185.79 | 6.92 | 15.94 | 0.00 | 15.94 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 26.92 | 0.00 | 7.61 | 185.54 | 6.89 | 15.91 | 0.00 | 15.91 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 26.92 | 0.00 | 7.60 | 185.29 | 6.87 | 15.88 | 0.00 | 15.88 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 26.92 | 0.00 | 7.59 | 185.04 | 6.85 | 15.85 | 0.00 | 15.85 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 26.92 | 0.00 | 7.58 | 184.79 | 6.82 | 15.82 | 0.00 | 15.82 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 26.92 | 0.00 | 7.57 | 184.54 | 6.80 | 15.79 | 0.00 | 15.79 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | 43.400 | 26.92 | 0.00 | 7.56 | 184.29 | 6.78 | 15.77 | 0.00 | 15.77 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 26.92 | 0.00 | 7.55 | 184.04 | 6.76 | 15.74 | 0.00 | 15.74 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 26.92 | 0.00 | 7.54 | 183.80 | 6.74 | 15.71 | 0.00 | 15.71 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 26.92 | 0.00 | 7.53 | 183.55 | 6.72 | 15.68 | 0.00 | 15.68 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 26.92 | 0.00 | 7.52 | 183.31 | 6.70 | 15.65 | 0.00 | 15.65 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 26.92 | 0.00 | 7.51 | 183.06 | 6.68 | 15.63 | 0.00 | 15.63 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 26.92 | 0.00 | 7.50 | 182.82 | 6.66 | 15.60 | 0.00 | 15.60 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 26.92 | 0.00 | 7.49 | 182.58 | 6.64 | 15.57 | 0.00 | 15.57 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 26.92 | 0.00 | 7.48 | 182.34 | 6.62 | 15.54 | 0.00 | 15.54 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 26.92 | 0.00 | 7.47 | 182.09 | 6.61 | 15.52 | 0.00 | 15.52 | 0.00 | 2.58 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 26.92 | 0.00 | 7.46 | 181.85 | 6.59 | 15.49 | 0.00 | 15.49 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 26.92 | 0.00 | 7.45 | 181.61 | 6.57 | 15.46 | 0.00 | 15.46 | 0.00 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 26.92 | 0.00 | 7.44 | 181.37 | 6.55 | 15.44 | 0.00 | 15.44 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 26.92 | 0.00 | 7.43 | 181.13 | 6.54 | 15.41 | 0.00 | 15.41 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 26.92 | 0.00 | 7.42 | 180.89 | 6.52 | 15.38 | 0.00 | 15.38 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 26.92 | 0.00 | 7.41 | 180.66 | 6.51 | 15.35 | 0.00 | 15.35 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 26.92 | 0.00 | 7.40 | 180.42 | 6.49 | 15.33 | 0.00 | 15.33 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 26.92 | 0.00 | 7.39 | 180.18 | 6.48 | 15.30 | 0.00 | 15.30 | 0.00 | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 26.92 | 0.00 | 7.38 | 179.95 | 6.46 | 15.27 | 0.00 | 15.27 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 26.92 | 0.00 | 7.37 | 179.71 | 6.45 | 15.25 | 0.00 | 15.25 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 26.92 | 0.00 | 7.36 | 179.48 | 6.43 | 15.22 | 0.00 | 15.22 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 26.92 | 0.00 | 7.35 | 179.24 | 6.42 | 15.20 | 0.00 | 15.20 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 26.92 | 0.00 | 7.34 | 179.01 | 6.41 | 15.17 | 0.00 | 15.17 | 0.00 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 26.92 | 0.00 | 7.33 | 178.78 | 6.39 | 15.14 | 0.00 | 15.14 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 26.92 | 0.00 | 7.32 | 178.54 | 6.38 | 15.12 | 0.00 | 15.12 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 26.92 | 0.00 | 7.31 | 178.31 | 6.37 | 15.09 | 0.00 | 15.09 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 26.92 | 0.00 | 7.30 | 178.08 | 6.36 | 15.06 | 0.00 | 15.06 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 26.92 | 0.00 | 7.29 | 177.85 | 6.34 | 15.04 | 0.00 | 15.04 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 26.92 | 0.00 | 7.28 | 177.62 | 6.33 | 15.01 | 0.00 | 15.01 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 26.92 | 0.00 | 7.27 | 177.39 | 6.32 | 14.99 | 0.00 | 14.99 | 0.00 | 2.49 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 26.92 | 0.00 | 7.26 | 177.16 | 6.31 | 14.96 | 0.00 | 14.96 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |
| 59 | 40.300 | 26.92 | 0.00 | 7.25 | 176.93 | 6.30 | 14.94 | 0.00 | 14.94 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |
| 60 | 40.200 | 26.92 | 0.00 | 7.25 | 176.71 | 6.29 | 14.91 | 0.00 | 14.91 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 26.92 | 0.00 | 7.24 | 176.48 | 6.28 | 14.89 | 0.00 | 14.89 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 26.92 | 0.00 | 7.23 | 176.25 | 6.27 | 14.86 | 0.00 | 14.86 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 26.92 | 0.00 | 7.22 | 176.03 | 6.26 | 14.84 | 0.00 | 14.84 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 26.92 | 0.00 | 7.21 | 175.80 | 6.25 | 14.81 | 0.00 | 14.81 | 0.00 | 2.46 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 26.92 | 0.00 | 7.20 | 175.58 | 6.24 | 14.78 | 0.00 | 14.78 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 26.92 | 0.00 | 7.19 | 175.35 | 6.23 | 14.76 | 0.00 | 14.76 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 26.92 | 0.00 | 7.18 | 175.13 | 6.22 | 14.73 | 0.00 | 14.73 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 26.92 | 0.00 | 7.17 | 174.91 | 6.21 | 14.71 | 0.00 | 14.71 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 26.92 | 0.00 | 7.16 | 174.69 | 6.20 | 14.69 | 0.00 | 14.69 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 26.92 | 0.00 | 7.15 | 174.46 | 6.19 | 14.66 | 0.00 | 14.66 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 26.92 | 0.00 | 7.14 | 174.24 | 6.19 | 14.64 | 0.00 | 14.64 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 26.92 | 0.00 | 7.14 | 174.02 | 6.18 | 14.61 | 0.00 | 14.61 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 26.92 | 0.00 | 7.13 | 173.80 | 6.17 | 14.59 | 0.00 | 14.59 | 0.00 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 26.92 | 0.00 | 7.12 | 173.58 | 6.16 | 14.56 | 0.00 | 14.56 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 26.92 | 0.00 | 7.11 | 173.36 | 6.15 | 14.54 | 0.00 | 14.54 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 26.92 | 0.00 | 7.10 | 173.14 | 6.15 | 14.51 | 0.00 | 14.51 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 26.92 | 0.00 | 7.09 | 172.93 | 6.14 | 14.49 | 0.00 | 14.49 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 26.92 | 0.00 | 7.08 | 172.71 | 6.13 | 14.47 | 0.00 | 14.47 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 26.92 | 0.00 | 7.07 | 172.49 | 6.12 | 14.44 | 0.00 | 14.44 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 38.200 | 26.92 | 0.00 | 7.06 | 172.28 | 6.12 | 14.42 | 0.00 | 14.42 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 26.92 | 0.00 | 7.05 | 172.06 | 6.11 | 14.39 | 0.00 | 14.39 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21960 | 26.92 | 0.00 | 7.05 | 172.06 | 6.11 | 14.39 | 0.00 | 14.39 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 26.92 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.00280 | 26.92 | 0.03 | 8.60 | 89.10 | 5.00 | 5.52 | 0.00 | 5.52 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.22010 | 3.7 | 0.22387 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 83 | 38.00 | 37.90 | 0.22059 | 3.7 | 0.22437 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 84 | 37.90 | 37.80 | 0.22109 | 3.7 | 0.22488 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 85 | 37.80 | 37.70 | 0.22159 | 3.7 | 0.22538 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 86 | 37.70 | 37.60 | 0.22208 | 3.7 | 0.22589 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 87 | 37.60 | 37.50 | 0.22258 | 3.7 | 0.22639 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 88 | 37.50 | 37.40 | 0.22308 | 3.7 | 0.22690 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 89 | 37.40 | 37.30 | 0.22357 | 3.7 | 0.22740 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 90 | 37.30 | 37.20 | 0.22407 | 3.7 | 0.22791 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 91 | 37.20 | 37.10 | 0.22737 | 4.8 | 0.23126 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 92 | 37.10 | 37.00 | 0.22786 | 4.8 | 0.23177 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 93 | 37.00 | 36.90 | 0.22836 | 4.8 | 0.23227 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 94 | 36.90 | 36.80 | 0.22886 | 4.8 | 0.23278 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 95 | 36.80 | 36.70 | 0.22935 | 4.8 | 0.23328 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 96 | 36.70 | 36.60 | 0.22985 | 4.8 | 0.23379 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 97 | 36.60 | 36.50 | 0.23035 | 4.8 | 0.23429 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 98 | 36.50 | 36.40 | 0.23084 | 4.8 | 0.23480 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 99 | 36.40 | 36.30 | 0.23134 | 4.8 | 0.23530 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 100 | 36.30 | 36.20 | 0.23184 | 4.7 | 0.23581 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 101 | 36.20 | 36.10 | 0.23233 | 4.7 | 0.23631 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 102 | 36.10 | 36.00 | 0.23283 | 4.7 | 0.23682 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 103 | 36.00 | 35.90 | 0.23333 | 4.7 | 0.23732 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 104 | 35.90 | 35.80 | 0.23382 | 4.7 | 0.23783 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 105 | 35.80 | 35.70 | 0.23432 | 4.7 | 0.23833 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 106 | 35.70 | 35.60 | 0.23482 | 4.7 | 0.23884 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 107 | 35.60 | 35.50 | 0.23531 | 4.7 | 0.23934 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 108 | 35.50 | 35.40 | 0.23581 | 4.7 | 0.23985 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 109 | 35.40 | 35.30 | 0.23631 | 4.7 | 0.24035 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 35.30 | 35.20 | 0.23680 | 4.6 | 0.24086 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 111 | 35.20 | 35.10 | 0.23730 | 4.6 | 0.24136 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 112 | 35.10 | 35.00 | 0.23780 | 4.6 | 0.24187 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 113 | 35.00 | 34.90 | 0.23829 | 4.6 | 0.24237 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 114 | 34.90 | 34.80 | 0.23879 | 4.6 | 0.24288 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 115 | 34.80 | 34.70 | 0.23929 | 4.6 | 0.24338 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 116 | 34.70 | 34.60 | 0.23978 | 4.6 | 0.24389 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 117 | 34.60 | 34.50 | 0.24028 | 4.6 | 0.24439 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 118 | 34.50 | 34.40 | 0.24078 | 4.6 | 0.24490 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 119 | 34.40 | 34.30 | 0.24127 | 4.6 | 0.24541 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 120 | 34.30 | 34.20 | 0.24177 | 4.6 | 0.24591 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 121 | 34.20 | 34.10 | 0.24227 | 4.5 | 0.24642 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 122 | 34.10 | 34.00 | 0.24276 | 4.5 | 0.24692 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 123 | 34.00 | 33.90 | 0.24326 | 4.5 | 0.24743 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 124 | 33.90 | 33.80 | 0.24376 | 4.5 | 0.24793 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 125 | 33.80 | 33.70 | 0.24425 | 4.5 | 0.24844 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 126 | 33.70 | 33.60 | 0.24475 | 4.5 | 0.24894 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 127 | 33.60 | 33.50 | 0.24524 | 4.5 | 0.24945 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 128 | 33.50 | 33.40 | 0.24574 | 4.5 | 0.24995 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 129 | 33.40 | 33.30 | 0.24624 | 4.5 | 0.25046 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 130 | 33.30 | 33.20 | 0.24673 | 4.5 | 0.25096 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 131 | 33.20 | 33.10 | 0.24723 | 4.5 | 0.25147 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 132 | 33.10 | 33.00 | 0.24773 | 4.4 | 0.25197 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 133 | 33.00 | 32.90 | 0.24822 | 4.4 | 0.25248 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 134 | 32.90 | 32.80 | 0.24872 | 4.4 | 0.25298 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 135 | 32.80 | 32.70 | 0.24922 | 4.4 | 0.25349 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 136 | 32.70 | 32.60 | 0.24971 | 4.4 | 0.25399 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 137 | 32.60 | 32.50 | 0.25021 | 4.4 | 0.25450 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 138 | 32.50 | 32.40 | 0.25071 | 4.4 | 0.25500 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 139 | 32.40 | 32.30 | 0.25120 | 4.4 | 0.25551 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 140 | 32.30 | 32.20 | 0.25170 | 4.4 | 0.25601 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 141 | 32.20 | 32.10 | 0.25220 | 4.4 | 0.25652 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 142 | 32.10 | 32.00 | 0.25269 | 4.4 | 0.25702 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 143 | 32.00 | 31.90 | 0.25319 | 4.3 | 0.25753 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 144 | 31.90 | 31.80 | 0.25369 | 4.3 | 0.25803 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 145 | 31.80 | 31.70 | 0.25418 | 4.3 | 0.25854 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 146 | 31.70 | 31.60 | 0.25468 | 4.3 | 0.25904 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 147 | 31.60 | 31.50 | 0.25518 | 4.3 | 0.25955 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 148 | 31.50 | 31.40 | 0.25567 | 4.3 | 0.26005 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 149 | 31.40 | 31.30 | 0.25617 | 4.3 | 0.26056 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 150 | 31.30 | 31.20 | 0.25667 | 4.3 | 0.26106 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 151 | 31.20 | 31.10 | 0.25716 | 4.3 | 0.26157 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 152 | 31.10 | 31.00 | 0.25766 | 4.3 | 0.26207 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 153 | 31.00 | 30.90 | 0.25816 | 4.3 | 0.26258 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 154 | 30.90 | 30.80 | 0.25865 | 4.3 | 0.26308 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 155 | 30.80 | 30.70 | 0.25915 | 4.2 | 0.26359 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 156 | 30.70 | 30.60 | 0.25965 | 4.2 | 0.26409 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 157 | 30.60 | 30.50 | 0.26014 | 4.2 | 0.26460 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 158 | 30.50 | 30.40 | 0.26064 | 4.2 | 0.26511 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 159 | 30.40 | 30.30 | 0.26114 | 4.2 | 0.26561 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 160 | 30.30 | 30.20 | 0.26163 | 4.2 | 0.26612 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 161 | 30.20 | 30.10 | 0.26213 | 4.2 | 0.26662 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 162 | 30.10 | 30.00 | 0.26263 | 4.2 | 0.26713 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 163 | 30.00 | 29.90 | 0.26312 | 4.2 | 0.26763 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 164 | 29.90 | 29.80 | 0.26362 | 4.2 | 0.26814 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 165 | 29.80 | 29.70 | 0.26412 | 4.2 | 0.26864 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 166 | 29.70 | 29.60 | 0.26461 | 4.2 | 0.26915 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 167 | 29.60 | 29.50 | 0.26511 | 4.2 | 0.26965 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 168 | 29.50 | 29.40 | 0.26561 | 4.1 | 0.27016 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 169 | 29.40 | 29.30 | 0.26610 | 4.1 | 0.27066 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| 170 | 29.30 | 29.20 | 0.26660 | 4.1 | 0.27117 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| TOT | | | | | | 0.42 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.2479 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.51 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 37.000 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 36.900 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113 | 34.900 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 31.800 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 31.700 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | 29.700 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.49 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 26.92 | 0.00 | 7.04 | 171.78 | 6.09 | 14.36 | 0.00 | 14.36 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 26.92 | 0.00 | 7.02 | 171.51 | 6.07 | 14.33 | 0.00 | 14.33 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 26.92 | 0.00 | 7.01 | 171.24 | 6.05 | 14.30 | 0.00 | 14.30 | 0.00 | 2.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 26.92 | 0.00 | 6.99 | 170.97 | 6.03 | 14.27 | 0.00 | 14.27 | 0.00 | 2.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 26.92 | 0.00 | 6.98 | 170.70 | 6.01 | 14.24 | 0.00 | 14.24 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 26.92 | 0.00 | 6.96 | 170.43 | 5.99 | 14.21 | 0.00 | 14.21 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 26.92 | 0.00 | 6.94 | 170.16 | 5.98 | 14.18 | 0.00 | 14.18 | 0.00 | 2.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 26.92 | 0.00 | 6.93 | 169.89 | 5.96 | 14.15 | 0.00 | 14.15 | 0.00 | 2.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 26.92 | 0.00 | 6.91 | 169.63 | 5.94 | 14.12 | 0.00 | 14.12 | 0.00 | 2.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 26.92 | 0.00 | 6.92 | 168.37 | 5.92 | 13.98 | 0.00 | 13.98 | 0.00 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 26.92 | 0.00 | 6.90 | 168.11 | 5.90 | 13.95 | 0.00 | 13.95 | 0.00 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 26.92 | 0.00 | 6.89 | 167.86 | 5.89 | 13.92 | 0.00 | 13.92 | 0.00 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 26.92 | 0.00 | 6.87 | 167.60 | 5.88 | 13.90 | 0.00 | 13.90 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 26.92 | 0.00 | 6.86 | 167.35 | 5.86 | 13.87 | 0.00 | 13.87 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 96 | 36.600 | 26.92 | 0.00 | 6.84 | 167.09 | 5.85 | 13.84 | 0.00 | 13.84 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 97 | 36.500 | 26.92 | 0.00 | 6.83 | 166.84 | 5.84 | 13.81 | 0.00 | 13.81 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 26.92 | 0.00 | 6.82 | 166.59 | 5.83 | 13.78 | 0.00 | 13.78 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 26.92 | 0.00 | 6.80 | 166.34 | 5.81 | 13.75 | 0.00 | 13.75 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 26.92 | 0.00 | 6.79 | 166.09 | 5.80 | 13.73 | 0.00 | 13.73 | 0.00 | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 26.92 | 0.00 | 6.77 | 165.84 | 5.79 | 13.70 | 0.00 | 13.70 | 0.00 | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 26.92 | 0.00 | 6.76 | 165.59 | 5.78 | 13.67 | 0.00 | 13.67 | 0.00 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 26.92 | 0.00 | 6.74 | 165.35 | 5.77 | 13.64 | 0.00 | 13.64 | 0.00 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 26.92 | 0.00 | 6.73 | 165.10 | 5.76 | 13.62 | 0.00 | 13.62 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 26.92 | 0.00 | 6.71 | 164.86 | 5.75 | 13.59 | 0.00 | 13.59 | 0.00 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 26.92 | 0.00 | 6.70 | 164.62 | 5.74 | 13.56 | 0.00 | 13.56 | 0.00 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 26.92 | 0.00 | 6.69 | 164.38 | 5.73 | 13.54 | 0.00 | 13.54 | 0.00 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 26.92 | 0.00 | 6.67 | 164.13 | 5.73 | 13.51 | 0.00 | 13.51 | 0.00 | 2.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 26.92 | 0.00 | 6.66 | 163.89 | 5.72 | 13.48 | 0.00 | 13.48 | 0.00 | 2.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 26.92 | 0.00 | 6.64 | 163.66 | 5.71 | 13.46 | 0.00 | 13.46 | 0.00 | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 26.92 | 0.00 | 6.63 | 163.42 | 5.70 | 13.43 | 0.00 | 13.43 | 0.00 | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 26.92 | 0.00 | 6.62 | 163.18 | 5.69 | 13.41 | 0.00 | 13.41 | 0.00 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 26.92 | 0.00 | 6.60 | 162.94 | 5.69 | 13.38 | 0.00 | 13.38 | 0.00 | 2.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 26.92 | 0.00 | 6.59 | 162.71 | 5.68 | 13.36 | 0.00 | 13.36 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 26.92 | 0.00 | 6.57 | 162.48 | 5.67 | 13.33 | 0.00 | 13.33 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 26.92 | 0.00 | 6.56 | 162.24 | 5.67 | 13.30 | 0.00 | 13.30 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117 | 34.500 | 26.92 | 0.00 | 6.55 | 162.01 | 5.66 | 13.28 | 0.00 | 13.28 | 0.00 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 26.92 | 0.00 | 6.53 | 161.78 | 5.65 | 13.25 | 0.00 | 13.25 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 26.92 | 0.00 | 6.52 | 161.55 | 5.65 | 13.23 | 0.00 | 13.23 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 26.92 | 0.00 | 6.51 | 161.32 | 5.64 | 13.20 | 0.00 | 13.20 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 26.92 | 0.00 | 6.49 | 161.09 | 5.64 | 13.18 | 0.00 | 13.18 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 26.92 | 0.00 | 6.48 | 160.87 | 5.63 | 13.16 | 0.00 | 13.16 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 26.92 | 0.00 | 6.47 | 160.64 | 5.63 | 13.13 | 0.00 | 13.13 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 26.92 | 0.00 | 6.45 | 160.41 | 5.62 | 13.11 | 0.00 | 13.11 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 26.92 | 0.00 | 6.44 | 160.19 | 5.62 | 13.08 | 0.00 | 13.08 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 26.92 | 0.00 | 6.43 | 159.97 | 5.61 | 13.06 | 0.00 | 13.06 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 26.92 | 0.00 | 6.42 | 159.74 | 5.61 | 13.03 | 0.00 | 13.03 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 26.92 | 0.00 | 6.40 | 159.52 | 5.60 | 13.01 | 0.00 | 13.01 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 26.92 | 0.00 | 6.39 | 159.30 | 5.60 | 12.99 | 0.00 | 12.99 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 26.92 | 0.00 | 6.38 | 159.08 | 5.60 | 12.96 | 0.00 | 12.96 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 26.92 | 0.00 | 6.36 | 158.86 | 5.59 | 12.94 | 0.00 | 12.94 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 26.92 | 0.00 | 6.35 | 158.64 | 5.59 | 12.92 | 0.00 | 12.92 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 26.92 | 0.00 | 6.34 | 158.43 | 5.59 | 12.89 | 0.00 | 12.89 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 26.92 | 0.00 | 6.33 | 158.21 | 5.58 | 12.87 | 0.00 | 12.87 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 26.92 | 0.00 | 6.31 | 157.99 | 5.58 | 12.85 | 0.00 | 12.85 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 26.92 | 0.00 | 6.30 | 157.78 | 5.58 | 12.82 | 0.00 | 12.82 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 26.92 | 0.00 | 6.29 | 157.56 | 5.57 | 12.80 | 0.00 | 12.80 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 26.92 | 0.00 | 6.28 | 157.35 | 5.57 | 12.78 | 0.00 | 12.78 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 26.92 | 0.00 | 6.26 | 157.14 | 5.57 | 12.76 | 0.00 | 12.76 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 26.92 | 0.00 | 6.25 | 156.93 | 5.56 | 12.73 | 0.00 | 12.73 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 26.92 | 0.00 | 6.24 | 156.72 | 5.56 | 12.71 | 0.00 | 12.71 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 26.92 | 0.00 | 6.23 | 156.51 | 5.56 | 12.69 | 0.00 | 12.69 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 26.92 | 0.00 | 6.21 | 156.30 | 5.56 | 12.67 | 0.00 | 12.67 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 26.92 | 0.00 | 6.20 | 156.09 | 5.56 | 12.65 | 0.00 | 12.65 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 26.92 | 0.00 | 6.19 | 155.88 | 5.55 | 12.62 | 0.00 | 12.62 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 26.92 | 0.00 | 6.18 | 155.68 | 5.55 | 12.60 | 0.00 | 12.60 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 26.92 | 0.00 | 6.17 | 155.47 | 5.55 | 12.58 | 0.00 | 12.58 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 148 | 31.400 | 26.92 | 0.00 | 6.15 | 155.27 | 5.55 | 12.56 | 0.00 | 12.56 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 149 | 31.300 | 26.92 | 0.00 | 6.14 | 155.06 | 5.55 | 12.54 | 0.00 | 12.54 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 26.92 | 0.00 | 6.13 | 154.86 | 5.54 | 12.52 | 0.00 | 12.52 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 26.92 | 0.00 | 6.12 | 154.66 | 5.54 | 12.50 | 0.00 | 12.50 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 26.92 | 0.00 | 6.11 | 154.45 | 5.54 | 12.48 | 0.00 | 12.48 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 26.92 | 0.00 | 6.09 | 154.25 | 5.54 | 12.45 | 0.00 | 12.45 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 26.92 | 0.00 | 6.08 | 154.05 | 5.54 | 12.43 | 0.00 | 12.43 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 26.92 | 0.00 | 6.07 | 153.85 | 5.54 | 12.41 | 0.00 | 12.41 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 26.92 | 0.00 | 6.06 | 153.66 | 5.54 | 12.39 | 0.00 | 12.39 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 26.92 | 0.00 | 6.05 | 153.46 | 5.53 | 12.37 | 0.00 | 12.37 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 26.92 | 0.00 | 6.04 | 153.26 | 5.53 | 12.35 | 0.00 | 12.35 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 26.92 | 0.00 | 6.02 | 153.06 | 5.53 | 12.33 | 0.00 | 12.33 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 26.92 | 0.00 | 6.01 | 152.87 | 5.53 | 12.31 | 0.00 | 12.31 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 26.92 | 0.00 | 6.00 | 152.67 | 5.53 | 12.29 | 0.00 | 12.29 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 26.92 | 0.00 | 5.99 | 152.48 | 5.53 | 12.27 | 0.00 | 12.27 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 26.92 | 0.00 | 5.98 | 152.29 | 5.53 | 12.25 | 0.00 | 12.25 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 26.92 | 0.00 | 5.97 | 152.09 | 5.53 | 12.23 | 0.00 | 12.23 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 26.92 | 0.00 | 5.96 | 151.90 | 5.53 | 12.21 | 0.00 | 12.21 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 26.92 | 0.00 | 5.95 | 151.71 | 5.53 | 12.19 | 0.00 | 12.19 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 26.92 | 0.00 | 5.93 | 151.52 | 5.53 | 12.17 | 0.00 | 12.17 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 26.92 | 0.00 | 5.92 | 151.33 | 5.53 | 12.15 | 0.00 | 12.15 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 169 | 29.300 | 26.92 | 0.00 | 5.91 | 151.14 | 5.53 | 12.13 | 0.00 | 12.13 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.53 | 12.11 | 0.00 | 12.11 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 5.53 | 12.11 | 0.00 | 12.11 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 172 | 29.10 | 29.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 173 | 29.00 | 28.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 174 | 28.90 | 28.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 175 | 28.80 | 28.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 176 | 28.70 | 28.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 177 | 28.60 | 28.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 178 | 28.50 | 28.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 179 | 28.40 | 28.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 180 | 28.30 | 28.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 181 | 28.20 | 28.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 182 | 28.10 | 28.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 183 | 28.00 | 27.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 184 | 27.90 | 27.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 185 | 27.80 | 27.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 186 | 27.70 | 27.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 187 | 27.60 | 27.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 188 | 27.50 | 27.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 189 | 27.40 | 27.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 190 | 27.30 | 27.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 191 | 27.20 | 27.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 192 | 27.10 | 27.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 193 | 27.00 | 26.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 194 | 26.90 | 26.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 195 | 26.80 | 26.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 196 | 26.70 | 26.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 197 | 26.60 | 26.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 198 | 26.50 | 26.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 199 | 26.40 | 26.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 200 | 26.30 | 26.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 26.20 | 26.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 202 | 26.10 | 26.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 203 | 26.00 | 25.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 204 | 25.90 | 25.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 205 | 25.80 | 25.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 206 | 25.70 | 25.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 207 | 25.60 | 25.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 208 | 25.50 | 25.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 209 | 25.40 | 25.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 210 | 25.30 | 25.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 211 | 25.20 | 25.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 212 | 25.10 | 25.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 213 | 25.00 | 24.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 214 | 24.90 | 24.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 215 | 24.80 | 24.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 216 | 24.70 | 24.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 217 | 24.60 | 24.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 218 | 24.50 | 24.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 219 | 24.40 | 24.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 220 | 24.30 | 24.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 221 | 24.20 | 24.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| TOT | | | | | | 0.79 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.0750 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.30 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 190 | 27.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 24.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.98 | 0.07 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.47 | | | 0.07 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.51 | 12.09 | 0.00 | 12.09 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.50 | 12.06 | 0.00 | 12.06 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.48 | 12.04 | 0.00 | 12.04 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.47 | 12.01 | 0.00 | 12.01 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.46 | 11.99 | 0.00 | 11.99 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.45 | 11.96 | 0.00 | 11.96 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.44 | 11.94 | 0.00 | 11.94 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.42 | 11.91 | 0.00 | 11.91 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.41 | 11.89 | 0.00 | 11.89 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180 | 28.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.40 | 11.87 | 0.00 | 11.87 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.39 | 11.84 | 0.00 | 11.84 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.38 | 11.82 | 0.00 | 11.82 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.38 | 11.79 | 0.00 | 11.79 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.37 | 11.77 | 0.00 | 11.77 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.36 | 11.74 | 0.00 | 11.74 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.35 | 11.72 | 0.00 | 11.72 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.34 | 11.70 | 0.00 | 11.70 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.34 | 11.67 | 0.00 | 11.67 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.33 | 11.65 | 0.00 | 11.65 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.32 | 11.63 | 0.00 | 11.63 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.31 | 11.60 | 0.00 | 11.60 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.31 | 11.58 | 0.00 | 11.58 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.30 | 11.56 | 0.00 | 11.56 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.30 | 11.53 | 0.00 | 11.53 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.29 | 11.51 | 0.00 | 11.51 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.28 | 11.49 | 0.00 | 11.49 | 0.00 | 1.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.28 | 11.46 | 0.00 | 11.46 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.44 | 0.00 | 11.44 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.42 | 0.00 | 11.42 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.27 | 11.40 | 0.00 | 11.40 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.26 | 11.37 | 0.00 | 11.37 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.26 | 11.35 | 0.00 | 11.35 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.33 | 0.00 | 11.33 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.31 | 0.00 | 11.31 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.25 | 11.28 | 0.00 | 11.28 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.24 | 11.26 | 0.00 | 11.26 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.24 | 11.24 | 0.00 | 11.24 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.22 | 0.00 | 11.22 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.20 | 0.00 | 11.20 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.18 | 0.00 | 11.18 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 211 | 25.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.23 | 11.15 | 0.00 | 11.15 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 212 | 25.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.13 | 0.00 | 11.13 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.11 | 0.00 | 11.11 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.09 | 0.00 | 11.09 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.22 | 11.07 | 0.00 | 11.07 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.05 | 0.00 | 11.05 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.03 | 0.00 | 11.03 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 11.01 | 0.00 | 11.01 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 10.98 | 0.00 | 10.98 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.21 | 10.96 | 0.00 | 10.96 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.20 | 10.94 | 0.00 | 10.94 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 5.20 | 10.94 | 0.00 | 10.94 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.00280 | 26.92 | 0.05 | 11.50 | 123.40 | 5.00 | 6.94 | 0.00 | 6.94 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.26655 | 4.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 223 | 24.00 | 23.90 | 0.26650 | 4.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 224 | 23.90 | 23.80 | 0.26644 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 225 | 23.80 | 23.70 | 0.26639 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 226 | 23.70 | 23.60 | 0.26634 | 4.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 227 | 23.60 | 23.50 | 0.26629 | 4.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 228 | 23.50 | 23.40 | 0.26624 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 229 | 23.40 | 23.30 | 0.26618 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 230 | 23.30 | 23.20 | 0.26613 | 4.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 231 | 23.20 | 23.10 | 0.26608 | 4.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 232 | 23.10 | 23.00 | 0.26603 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 233 | 23.00 | 22.90 | 0.26598 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 234 | 22.90 | 22.80 | 0.26592 | 4.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 235 | 22.80 | 22.70 | 0.26587 | 4.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 236 | 22.70 | 22.60 | 0.26582 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 237 | 22.60 | 22.50 | 0.26577 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 238 | 22.50 | 22.40 | 0.26572 | 4.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 239 | 22.40 | 22.30 | 0.26846 | 5.1 | 0.04091 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 240 | 22.30 | 22.20 | 0.26841 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 241 | 22.20 | 22.10 | 0.26836 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.57 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 242 | 22.10 | 22.00 | 0.26831 | 5.1 | 0.04089 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.56 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 243 | 22.00 | 21.90 | 0.26826 | 5.1 | 0.04088 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 244 | 21.90 | 21.80 | 0.26820 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 245 | 21.80 | 21.70 | 0.26815 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.54 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 246 | 21.70 | 21.60 | 0.26810 | 5.1 | 0.04086 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.53 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 247 | 21.60 | 21.50 | 0.26805 | 5.1 | 0.04085 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 248 | 21.50 | 21.40 | 0.26800 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 249 | 21.40 | 21.30 | 0.26794 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.51 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 250 | 21.30 | 21.20 | 0.26789 | 5.1 | 0.04083 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.50 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 251 | 21.20 | 21.10 | 0.26784 | 5.1 | 0.04082 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 252 | 21.10 | 21.00 | 0.26779 | 5.1 | 0.04081 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 253 | 21.00 | 20.90 | 0.26774 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.48 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 254 | 20.90 | 20.80 | 0.26768 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.47 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 255 | 20.80 | 20.70 | 0.26763 | 5.1 | 0.04079 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 256 | 20.70 | 20.60 | 0.26758 | 5.1 | 0.04078 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 257 | 20.60 | 20.50 | 0.26753 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.45 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 258 | 20.50 | 20.40 | 0.26748 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 259 | 20.40 | 20.30 | 0.26742 | 5.1 | 0.04076 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 260 | 20.30 | 20.20 | 0.26737 | 5.1 | 0.04075 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.43 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 261 | 20.20 | 20.10 | 0.26732 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.42 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 262 | 20.10 | 20.00 | 0.26727 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 263 | 20.00 | 19.90 | 0.26722 | 5.1 | 0.04073 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 264 | 19.90 | 19.80 | 0.26716 | 5.1 | 0.04072 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.40 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 265 | 19.80 | 19.70 | 0.26711 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.39 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 266 | 19.70 | 19.60 | 0.26706 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 267 | 19.60 | 19.50 | 0.26701 | 5.1 | 0.04070 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 268 | 19.50 | 19.40 | 0.26696 | 5.1 | 0.04069 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.37 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 269 | 19.40 | 19.30 | 0.26691 | 5.1 | 0.04068 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.36 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 270 | 19.30 | 19.20 | 0.26685 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 271 | 19.20 | 19.10 | 0.26680 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 272 | 19.10 | 19.00 | 0.26675 | 5.1 | 0.04066 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.34 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 273 | 19.00 | 18.90 | 0.26670 | 5.1 | 0.04065 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.33 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 274 | 18.90 | 18.80 | 0.26665 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 275 | 18.80 | 18.70 | 0.26659 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 276 | 18.70 | 18.60 | 0.26654 | 5.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 277 | 18.60 | 18.50 | 0.26649 | 5.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 278 | 18.50 | 18.40 | 0.26644 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 279 | 18.40 | 18.30 | 0.26639 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 280 | 18.30 | 18.20 | 0.26633 | 5.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 281 | 18.20 | 18.10 | 0.26628 | 5.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 282 | 18.10 | 18.00 | 0.26623 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 283 | 18.00 | 17.90 | 0.26618 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 284 | 17.90 | 17.80 | 0.26613 | 5.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 285 | 17.80 | 17.70 | 0.26607 | 5.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 286 | 17.70 | 17.60 | 0.26602 | 5.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 287 | 17.60 | 17.50 | 0.26597 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 288 | 17.50 | 17.40 | 0.26592 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 289 | 17.40 | 17.30 | 0.26587 | 5.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 290 | 17.30 | 17.20 | 0.26581 | 5.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 291 | 17.20 | 17.10 | 0.26576 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 292 | 17.10 | 17.00 | 0.26571 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 293 | 17.00 | 16.90 | 0.26566 | 5.1 | 0.04050 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.18 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 294 | 16.90 | 16.80 | 0.26561 | 5.1 | 0.04049 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 295 | 16.80 | 16.70 | 0.26555 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 296 | 16.70 | 16.60 | 0.26550 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.16 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 297 | 16.60 | 16.50 | 0.26545 | 5.1 | 0.04047 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.15 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 298 | 16.50 | 16.40 | 0.26540 | 5.1 | 0.04046 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 299 | 16.40 | 16.30 | 0.26535 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 300 | 16.30 | 16.20 | 0.26529 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.13 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 301 | 16.20 | 16.10 | 0.26524 | 5.1 | 0.04044 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.12 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 302 | 16.10 | 16.00 | 0.26519 | 5.1 | 0.04043 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 303 | 16.00 | 15.90 | 0.26514 | 5.1 | 0.04042 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 304 | 15.90 | 15.80 | 0.26509 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.10 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 305 | 15.80 | 15.70 | 0.26503 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.09 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 306 | 15.70 | 15.60 | 0.26498 | 5.1 | 0.04040 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 307 | 15.60 | 15.50 | 0.26493 | 5.1 | 0.04039 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 308 | 15.50 | 15.40 | 0.26488 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.07 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 309 | 15.40 | 15.30 | 0.26483 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.06 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 310 | 15.30 | 15.20 | 0.26477 | 5.1 | 0.04037 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 311 | 15.20 | 15.10 | 0.26472 | 5.1 | 0.04036 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 312 | 15.10 | 15.00 | 0.26467 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.04 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 313 | 15.00 | 14.90 | 0.26462 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.03 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314 | 14.90 | 14.80 | 0.26457 | 5.1 | 0.04034 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 315 | 14.80 | 14.70 | 0.26451 | 5.1 | 0.04033 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 316 | 14.70 | 14.60 | 0.26446 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.01 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 317 | 14.60 | 14.50 | 0.26441 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.00 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 318 | 14.50 | 14.40 | 0.26436 | 5.1 | 0.04031 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.99 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 319 | 14.40 | 14.30 | 0.26431 | 5.1 | 0.04030 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 320 | 14.30 | 14.20 | 0.26425 | 5.1 | 0.04029 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 321 | 14.20 | 14.10 | 0.26420 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.97 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 322 | 14.10 | 14.00 | 0.26415 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.96 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 323 | 14.00 | 13.90 | 0.26410 | 5.1 | 0.04027 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 324 | 13.90 | 13.80 | 0.26405 | 5.1 | 0.04026 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 325 | 13.80 | 13.70 | 0.26399 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.94 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 326 | 13.70 | 13.60 | 0.26394 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.93 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 327 | 13.60 | 13.50 | 0.26389 | 5.1 | 0.04024 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 328 | 13.50 | 13.40 | 0.26384 | 5.1 | 0.04023 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 329 | 13.40 | 13.30 | 0.26379 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.91 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 330 | 13.30 | 13.20 | 0.26373 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.90 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 331 | 13.20 | 13.10 | 0.26368 | 5.1 | 0.04021 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 332 | 13.10 | 13.00 | 0.26363 | 5.1 | 0.04020 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 333 | 13.00 | 12.90 | 0.26358 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.88 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 334 | 12.90 | 12.80 | 0.26353 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.87 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 335 | 12.80 | 12.70 | 0.26347 | 5.1 | 0.04018 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 336 | 12.70 | 12.60 | 0.26342 | 5.1 | 0.04017 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 337 | 12.60 | 12.50 | 0.26337 | 5.1 | 0.04016 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.85 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 338 | 12.50 | 12.40 | 0.26332 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.84 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 339 | 12.40 | 12.30 | 0.26327 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 340 | 12.30 | 12.20 | 0.26321 | 5.1 | 0.04014 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 341 | 12.20 | 12.10 | 0.26316 | 5.1 | 0.04013 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.82 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 342 | 12.10 | 12.00 | 0.26311 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.81 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 343 | 12.00 | 11.90 | 0.26306 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 344 | 11.90 | 11.80 | 0.26301 | 5.1 | 0.04011 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 345 | 11.80 | 11.70 | 0.26295 | 5.1 | 0.04010 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.79 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 346 | 11.70 | 11.60 | 0.26290 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.78 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 347 | 11.60 | 11.50 | 0.26285 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 348 | 11.50 | 11.40 | 0.26280 | 5.1 | 0.04008 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 349 | 11.40 | 11.30 | 0.26275 | 5.1 | 0.04007 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.76 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 350 | 11.30 | 11.20 | 0.26270 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.75 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 351 | 11.20 | 11.10 | 0.26264 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 352 | 11.10 | 11.00 | 0.26259 | 5.1 | 0.04005 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 353 | 11.00 | 10.90 | 0.26254 | 5.1 | 0.04004 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.73 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 354 | 10.90 | 10.80 | 0.26249 | 5.1 | 0.04003 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.72 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 355 | 10.80 | 10.70 | 0.26244 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 356 | 10.70 | 10.60 | 0.26238 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 357 | 10.60 | 10.50 | 0.26233 | 5.1 | 0.04001 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.70 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 358 | 10.50 | 10.40 | 0.26228 | 5.1 | 0.04000 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.69 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 359 | 10.40 | 10.30 | 0.26223 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 360 | 10.30 | 10.20 | 0.26218 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 361 | 10.20 | 10.10 | 0.26212 | 5.1 | 0.03998 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.67 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 362 | 10.10 | 10.00 | 0.26207 | 5.1 | 0.03997 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.66 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 363 | 10.00 | 9.90 | 0.26202 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.65 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 364 | 9.90 | 9.80 | 0.26197 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 365 | 9.80 | 9.70 | 0.26192 | 5.1 | 0.03995 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 366 | 9.70 | 9.60 | 0.26186 | 5.1 | 0.03994 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.63 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 367 | 9.60 | 9.50 | 0.26181 | 5.1 | 0.03993 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.62 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 368 | 9.50 | 9.40 | 0.26176 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 369 | 9.40 | 9.30 | 0.26171 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 370 | 9.30 | 9.20 | 0.26166 | 5.1 | 0.03991 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.60 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 371 | 9.20 | 9.10 | 0.26160 | 5.1 | 0.03990 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.59 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 372 | 9.10 | 9.00 | 0.26155 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 373 | 9.00 | 8.90 | 0.26150 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| TOT | | | | | | 4.35 | | | 99699.49 | 168127.31 | | | | | |
| AVG | | | | | 0.0404 | | 0.59 | 11.06 | | | 6.56 | | | | |
| CUM | | | | | | 5.65 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 22.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 22.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 254 | 20.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | 17.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 286 | 17.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 306 | 15.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337 | 12.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 338 | 12.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 358 | 10.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.28 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.19 | 10.93 | 0.00 | 10.93 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.18 | 10.92 | 0.00 | 10.92 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.17 | 10.90 | 0.00 | 10.90 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.15 | 10.89 | 0.00 | 10.89 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 226 | 23.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.14 | 10.87 | 0.00 | 10.87 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 227 | 23.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.13 | 10.86 | 0.00 | 10.86 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.12 | 10.85 | 0.00 | 10.85 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.11 | 10.83 | 0.00 | 10.83 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.10 | 10.82 | 0.00 | 10.82 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.09 | 10.81 | 0.00 | 10.81 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.08 | 10.79 | 0.00 | 10.79 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.08 | 10.78 | 0.00 | 10.78 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.07 | 10.77 | 0.00 | 10.77 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.06 | 10.75 | 0.00 | 10.75 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.05 | 10.74 | 0.00 | 10.74 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.05 | 10.73 | 0.00 | 10.73 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.04 | 10.71 | 0.00 | 10.71 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 10.66 | 0.00 | 10.66 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 10.65 | 0.00 | 10.65 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 10.64 | 0.00 | 10.64 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 10.62 | 0.00 | 10.62 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 10.61 | 0.00 | 10.61 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 10.60 | 0.00 | 10.60 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.59 | 0.00 | 10.59 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.57 | 0.00 | 10.57 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 247 | 21.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 10.56 | 0.00 | 10.56 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.55 | 0.00 | 10.55 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.54 | 0.00 | 10.54 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 10.52 | 0.00 | 10.52 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.51 | 0.00 | 10.51 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.50 | 0.00 | 10.50 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 10.49 | 0.00 | 10.49 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.48 | 0.00 | 10.48 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.46 | 0.00 | 10.46 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.45 | 0.00 | 10.45 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.44 | 0.00 | 10.44 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 10.43 | 0.00 | 10.43 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.42 | 0.00 | 10.42 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.40 | 0.00 | 10.40 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.39 | 0.00 | 10.39 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.38 | 0.00 | 10.38 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 10.37 | 0.00 | 10.37 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.36 | 0.00 | 10.36 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.35 | 0.00 | 10.35 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.33 | 0.00 | 10.33 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.32 | 0.00 | 10.32 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.31 | 0.00 | 10.31 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.30 | 0.00 | 10.30 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.29 | 0.00 | 10.29 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.28 | 0.00 | 10.28 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 10.27 | 0.00 | 10.27 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.26 | 0.00 | 10.26 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.24 | 0.00 | 10.24 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.23 | 0.00 | 10.23 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.22 | 0.00 | 10.22 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.21 | 0.00 | 10.21 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 278 | 18.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.20 | 0.00 | 10.20 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 279 | 18.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.19 | 0.00 | 10.19 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.18 | 0.00 | 10.18 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.17 | 0.00 | 10.17 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.16 | 0.00 | 10.16 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.15 | 0.00 | 10.15 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.14 | 0.00 | 10.14 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.13 | 0.00 | 10.13 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.11 | 0.00 | 10.11 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.10 | 0.00 | 10.10 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.09 | 0.00 | 10.09 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.08 | 0.00 | 10.08 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.07 | 0.00 | 10.07 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.06 | 0.00 | 10.06 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.05 | 0.00 | 10.05 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.04 | 0.00 | 10.04 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.03 | 0.00 | 10.03 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.02 | 0.00 | 10.02 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.01 | 0.00 | 10.01 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 10.00 | 0.00 | 10.00 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.99 | 0.00 | 9.99 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 299 | 16.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.98 | 0.00 | 9.98 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.97 | 0.00 | 9.97 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.96 | 0.00 | 9.96 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.95 | 0.00 | 9.95 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.94 | 0.00 | 9.94 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.93 | 0.00 | 9.93 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.92 | 0.00 | 9.92 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.91 | 0.00 | 9.91 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.90 | 0.00 | 9.90 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.89 | 0.00 | 9.89 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.88 | 0.00 | 9.88 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.87 | 0.00 | 9.87 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.86 | 0.00 | 9.86 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.85 | 0.00 | 9.85 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.84 | 0.00 | 9.84 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.84 | 0.00 | 9.84 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.83 | 0.00 | 9.83 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.82 | 0.00 | 9.82 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.81 | 0.00 | 9.81 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.94 | 9.80 | 0.00 | 9.80 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.79 | 0.00 | 9.79 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.78 | 0.00 | 9.78 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.77 | 0.00 | 9.77 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.76 | 0.00 | 9.76 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.75 | 0.00 | 9.75 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.74 | 0.00 | 9.74 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.73 | 0.00 | 9.73 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.73 | 0.00 | 9.73 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.72 | 0.00 | 9.72 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.71 | 0.00 | 9.71 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.70 | 0.00 | 9.70 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 330 | 13.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.69 | 0.00 | 9.69 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 331 | 13.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.68 | 0.00 | 9.68 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.67 | 0.00 | 9.67 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.66 | 0.00 | 9.66 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.65 | 0.00 | 9.65 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.65 | 0.00 | 9.65 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.64 | 0.00 | 9.64 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.63 | 0.00 | 9.63 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.62 | 0.00 | 9.62 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.61 | 0.00 | 9.61 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.95 | 9.60 | 0.00 | 9.60 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.59 | 0.00 | 9.59 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.59 | 0.00 | 9.59 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.58 | 0.00 | 9.58 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.57 | 0.00 | 9.57 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.56 | 0.00 | 9.56 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.55 | 0.00 | 9.55 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.54 | 0.00 | 9.54 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.54 | 0.00 | 9.54 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.53 | 0.00 | 9.53 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.52 | 0.00 | 9.52 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 351 | 11.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.51 | 0.00 | 9.51 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.50 | 0.00 | 9.50 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.50 | 0.00 | 9.50 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.49 | 0.00 | 9.49 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.48 | 0.00 | 9.48 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.47 | 0.00 | 9.47 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.46 | 0.00 | 9.46 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.46 | 0.00 | 9.46 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.45 | 0.00 | 9.45 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.44 | 0.00 | 9.44 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.43 | 0.00 | 9.43 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.96 | 9.42 | 0.00 | 9.42 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.42 | 0.00 | 9.42 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.41 | 0.00 | 9.41 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.40 | 0.00 | 9.40 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.38 | 0.00 | 9.38 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.37 | 0.00 | 9.37 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.35 | 0.00 | 9.35 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.34 | 0.00 | 9.34 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.26150 | 26.92 | 0.00 | 5.96 | 150.67 | 4.97 | 9.34 | 0.00 | 9.34 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 375 | 8.80 | 8.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 376 | 8.70 | 8.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 377 | 8.60 | 8.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 378 | 8.50 | 8.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 379 | 8.40 | 8.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 380 | 8.30 | 8.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 381 | 8.20 | 8.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 382 | 8.10 | 8.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 383 | 8.00 | 7.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 384 | 7.90 | 7.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 385 | 7.80 | 7.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 386 | 7.70 | 7.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 387 | 7.60 | 7.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 388 | 7.50 | 7.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 389 | 7.40 | 7.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 390 | 7.30 | 7.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 391 | 7.20 | 7.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 392 | 7.10 | 7.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 393 | 7.00 | 6.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 394 | 6.90 | 6.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 395 | 6.80 | 6.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 396 | 6.70 | 6.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 397 | 6.60 | 6.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 398 | 6.50 | 6.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 399 | 6.40 | 6.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 400 | 6.30 | 6.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 401 | 6.20 | 6.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 402 | 6.10 | 6.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 403 | 6.00 | 5.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 404 | 5.90 | 5.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 405 | 5.80 | 5.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 406 | 5.70 | 5.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 407 | 5.60 | 5.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 408 | 5.50 | 5.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 409 | 5.40 | 5.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 410 | 5.30 | 5.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 411 | 5.20 | 5.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 412 | 5.10 | 5.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 413 | 5.00 | 4.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 414 | 4.90 | 4.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 415 | 4.80 | 4.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 416 | 4.70 | 4.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 417 | 4.60 | 4.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 418 | 4.50 | 4.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 419 | 4.40 | 4.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 420 | 4.30 | 4.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 421 | 4.20 | 4.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 422 | 4.10 | 4.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 423 | 4.00 | 3.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 424 | 3.90 | 3.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 425 | 3.80 | 3.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 426 | 3.70 | 3.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 427 | 3.60 | 3.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 428 | 3.50 | 3.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 429 | 3.40 | 3.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 430 | 3.30 | 3.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 431 | 3.20 | 3.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 432 | 3.10 | 3.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 433 | 3.00 | 2.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 434 | 2.90 | 2.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 435 | 2.80 | 2.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 436 | 2.70 | 2.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 437 | 2.60 | 2.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 438 | 2.50 | 2.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 439 | 2.40 | 2.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 440 | 2.30 | 2.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 441 | 2.20 | 2.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 442 | 2.10 | 2.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 443 | 2.00 | 1.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 444 | 1.90 | 1.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 445 | 1.80 | 1.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 446 | 1.70 | 1.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 447 | 1.60 | 1.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 448 | 1.50 | 1.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 449 | 1.40 | 1.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 450 | 1.30 | 1.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 451 | 1.20 | 1.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 452 | 1.10 | 1.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 453 | 1.00 | 0.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 454 | 0.90 | 0.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 455 | 0.80 | 0.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 456 | 0.70 | 0.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 457 | 0.60 | 0.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 458 | 0.50 | 0.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 459 | 0.40 | 0.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 460 | 0.30 | 0.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 461 | 0.20 | 0.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 462 | 0.10 | 0.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| TOT | | | | | | 1.89 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.0546 | | 0.63 | 7.62 | | | 4.79 | | | | |
| CUM | | | | | | 7.54 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 386 | 7.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | 4.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 418 | 4.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 438 | 2.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.32 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 26.92 | 0.00 | 5.96 | 150.67 | 4.98 | 9.33 | 0.00 | 9.33 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 26.92 | 0.00 | 5.96 | 150.67 | 4.99 | 9.32 | 0.00 | 9.32 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 9.31 | 0.00 | 9.31 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.00 | 9.30 | 0.00 | 9.30 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.01 | 9.29 | 0.00 | 9.29 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.02 | 9.28 | 0.00 | 9.28 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.03 | 9.27 | 0.00 | 9.27 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.04 | 9.26 | 0.00 | 9.26 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.04 | 9.25 | 0.00 | 9.25 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.05 | 9.24 | 0.00 | 9.24 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.06 | 9.23 | 0.00 | 9.23 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.06 | 9.22 | 0.00 | 9.22 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.07 | 9.21 | 0.00 | 9.21 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.08 | 9.20 | 0.00 | 9.20 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.08 | 9.19 | 0.00 | 9.19 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.09 | 9.18 | 0.00 | 9.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 390 | 7.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.09 | 9.17 | 0.00 | 9.17 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.10 | 9.16 | 0.00 | 9.16 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.11 | 9.15 | 0.00 | 9.15 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.11 | 9.14 | 0.00 | 9.14 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.12 | 9.13 | 0.00 | 9.13 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.12 | 9.12 | 0.00 | 9.12 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.13 | 9.11 | 0.00 | 9.11 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.13 | 9.10 | 0.00 | 9.10 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.09 | 0.00 | 9.09 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.08 | 0.00 | 9.08 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.14 | 9.07 | 0.00 | 9.07 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.15 | 9.06 | 0.00 | 9.06 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.15 | 9.05 | 0.00 | 9.05 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.04 | 0.00 | 9.04 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.03 | 0.00 | 9.03 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.16 | 9.03 | 0.00 | 9.03 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.17 | 9.02 | 0.00 | 9.02 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.17 | 9.01 | 0.00 | 9.01 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 9.00 | 0.00 | 9.00 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 8.99 | 0.00 | 8.99 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.18 | 8.98 | 0.00 | 8.98 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.97 | 0.00 | 8.97 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.96 | 0.00 | 8.96 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.19 | 8.95 | 0.00 | 8.95 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.94 | 0.00 | 8.94 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.94 | 0.00 | 8.94 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.93 | 0.00 | 8.93 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.20 | 8.92 | 0.00 | 8.92 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.91 | 0.00 | 8.91 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.90 | 0.00 | 8.90 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.21 | 8.89 | 0.00 | 8.89 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 421 | 4.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.88 | 0.00 | 8.88 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 422 | 4.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.87 | 0.00 | 8.87 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.87 | 0.00 | 8.87 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.86 | 0.00 | 8.86 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.22 | 8.85 | 0.00 | 8.85 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.84 | 0.00 | 8.84 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.83 | 0.00 | 8.83 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.23 | 8.82 | 0.00 | 8.82 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.23 | 8.82 | 0.00 | 8.82 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.81 | 0.00 | 8.81 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.80 | 0.00 | 8.80 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.79 | 0.00 | 8.79 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.78 | 0.00 | 8.78 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.24 | 8.77 | 0.00 | 8.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.77 | 0.00 | 8.77 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.76 | 0.00 | 8.76 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.75 | 0.00 | 8.75 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.74 | 0.00 | 8.74 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.73 | 0.00 | 8.73 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.25 | 8.73 | 0.00 | 8.73 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.72 | 0.00 | 8.72 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 442 | 2.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.71 | 0.00 | 8.71 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.70 | 0.00 | 8.70 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.69 | 0.00 | 8.69 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.69 | 0.00 | 8.69 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.26 | 8.68 | 0.00 | 8.68 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.67 | 0.00 | 8.67 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.66 | 0.00 | 8.66 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.66 | 0.00 | 8.66 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.27 | 8.65 | 0.00 | 8.65 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.64 | 0.00 | 8.64 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.63 | 0.00 | 8.63 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 26.92 | 0.04 | 5.96 | 150.67 | 5.27 | 8.63 | 0.00 | 8.63 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.62 | 0.00 | 8.62 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.61 | 0.00 | 8.61 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.60 | 0.00 | 8.60 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.60 | 0.00 | 8.60 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.59 | 0.00 | 8.59 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.58 | 0.00 | 8.58 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.57 | 0.00 | 8.57 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.57 | 0.00 | 8.57 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.28 | 8.56 | 0.00 | 8.56 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

```
STREAM SUMMARY                                          IATT CREEK WATERSHED MODEL
HEADWATER                                               IATT CREEK SENSITIVITY ANALYSIS USING SUMMER PROJECTION

 TRAVEL TIME       =          7.54 DAYS

 MAXIMUM EFFLUENT  =          5.13 PERCENT

 FLOW              =   0.19497 TO    0.26846   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.03989 TO    3.20234   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   11.07      m

 BOD DECAY         =    0.06   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.48   TO    3.15      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.45   TO   28.48      per day
 BOD SETTLING      =    0.06   TO    0.24      per day
 NBOD DECAY        =    0.08   TO    0.14      per day
 NBOD SETTLING     =    0.24   TO    0.35      per day

 TEMPERATURE       =   26.92   TO   26.92      deg C
 DISSOLVED OXYGEN  =    4.94   TO    7.19      mg/L


     .....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
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```
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  5 ON PARAMETER SET  3 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  6 ON PARAMETER SET  3 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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```
.....BEGIN SENSITIVITY RUN  7 ON PARAMETER SET  4 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   3 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 17 ON PARAMETER SET  9 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET  9 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
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.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   3 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
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.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
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     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 51 ON PARAMETER SET 26 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 52 ON PARAMETER SET 26 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
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.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 54 ON PARAMETER SET 27 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 55 ON PARAMETER SET 28 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 56 ON PARAMETER SET 28 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 57 ON PARAMETER SET 29 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 58 ON PARAMETER SET 29 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 59 ON PARAMETER SET 30 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 60 ON PARAMETER SET 30 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 61 ON PARAMETER SET 31 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



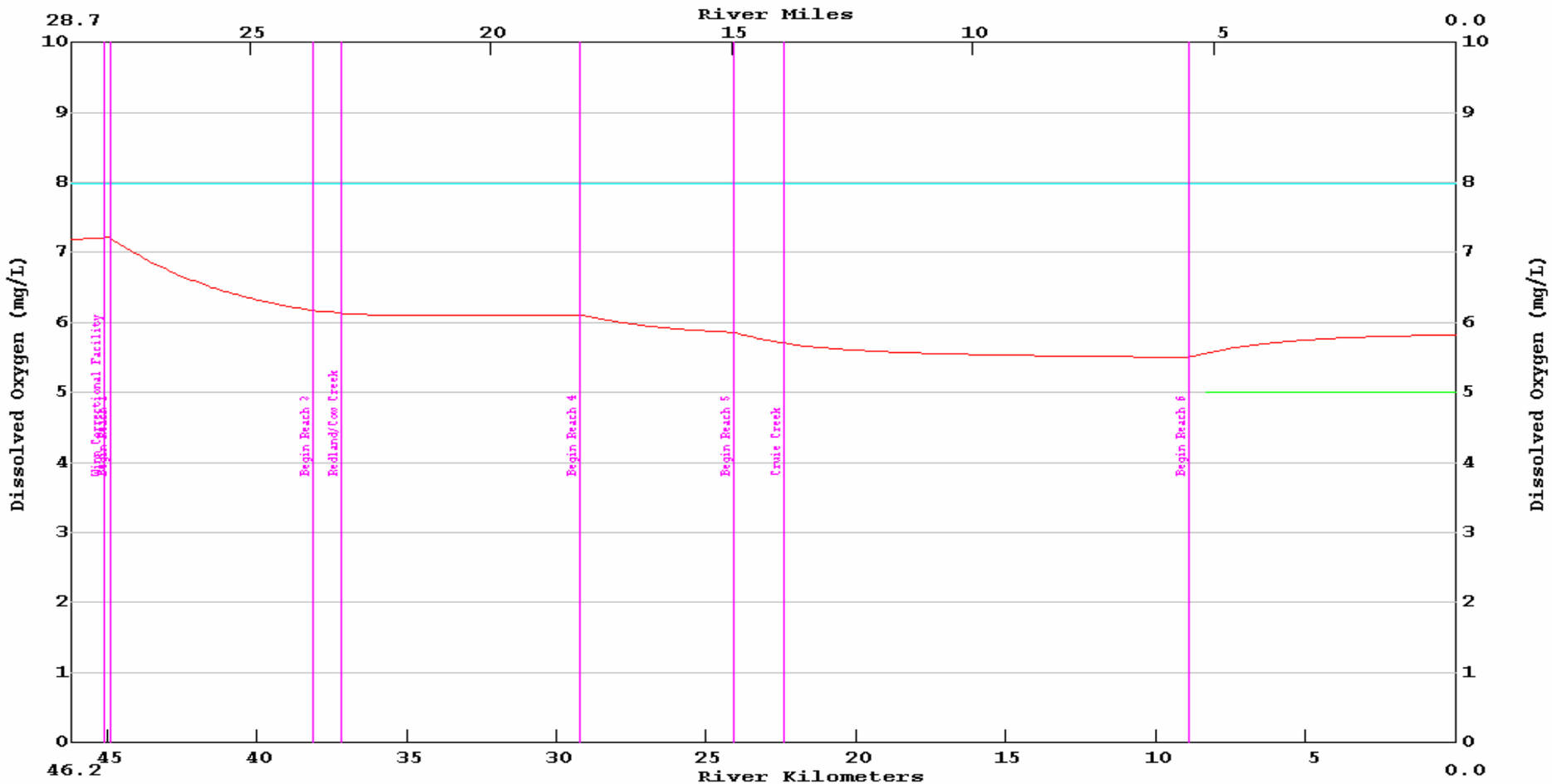
.....BEGIN SENSITIVITY RUN 62 ON PARAMETER SET 31 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....EXECUTION COMPLETED
```

# Appendix J – Summer No Load Scenario

# Appendix J1 – Summer No Load Output and Graph Scenarios

LA-QUAL Version 6.10 Run at 15:36 on 03/14/2005 File D:\Iatt Creek\Input Files\Iattsumnoload.txt
IATT CREEK SUMMER NOLOAD RUN min= 5.50 max= 7.22
MAINSTEM



## Iatt Creek 101303 Summer No Load Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK SUMMER NOLOAD RUN
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
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REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -------******-------******-------******-------******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -----*********----------*********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------*******--------*******--------*******--------*******
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    26.92          5.00                          38.00
INITIAL     2    26.92          5.00                           7.00
INITIAL     3    26.92          5.00
INITIAL     4    26.92          5.00                           0.00
INITIAL     5    26.92          5.00
INITIAL     6    26.92          5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  -----******----- ******-------*******-------*******-------*******-------***
```

```
!                REA    KL                     BOD 1  BOD 1                BOD 2    BOD 2
!          R#    EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                     0.50 0.0405 0.20
COEF-1      2  11.00                     2.00 0.0555 0.20
COEF-1      3  11.00                     1.20 0.0640 0.15
COEF-1      4  11.00                     1.24 0.0669 0.15
COEF-1      5  11.00                     1.15 0.0646 0.05
COEF-1      6  11.00                     1.06 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  26.920              0         0
INCR-1      2     0.0000  0.0187  26.920              0         0
INCR-1      3     0.0000  0.0442  26.920              0        50
INCR-1      4     0.0000  0.0000  26.920              0        50
INCR-1      5    -0.0079  0.0000  26.920              0        50
INCR-1      6     0.0000  0.0000  26.920              0        50
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     25.0     3.0
NONPOINT    4     25.0     6.0
NONPOINT    5     83.0    36.0
NONPOINT    6     50.0    14.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.1954   26.92  0.07     4.8     167.10
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.18     5.56    0.32
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0000    26.92     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0028    26.92     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0028    26.92     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.24         0.64
WSTLD-2   239      5.00    4.55         1.33
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
WSTLD-3    91
```

```
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  26.92
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************* ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Summer No Load Output Data Set

```
LA-QUAL Version 6.10
Louisiana Department of Environmental Quality

Input file is D:\Iatt Creek\Input Files\Iattsumnoload.txt
Output produced at 15:36 on 03/14/2005

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK SUMMER NOLOAD RUN
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       26.92      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       26.92      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.500     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.000     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.200     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.240     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.150     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.060     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000     0.000     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

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      -0.00280     0.00000     26.92      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     26.92      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     26.92      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.92      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       25.00      3.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       25.00      6.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC       83.00     36.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       50.00     14.00      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      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   26.92     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   7.18      5.56      0.32      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00000    0.00000    0.000   26.92     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.00280    0.09887    0.064   26.92     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.00280    0.09887    0.064   26.92     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.24      0.00      0.64      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      4.55      0.00      1.33      0.00      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
```

```
WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     26.920     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovlproj.txt                :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
```

FINAL REPORT HEADWATER — IATT CREEK WATERSHED MODEL
REACH NO. 1 HEADWATER - SITE 3 — IATT CREEK SUMMER NOLOAD RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.19540 | 26.92 | 0.07 | 4.80 | 167.10 | 7.18 | 5.56 | 0.00 | 5.56 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |

********** 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 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.19475 | 0.0 | 3.07144 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.071 |
| 4 | 45.90 | 45.80 | 0.19454 | 0.0 | 3.06804 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.068 |
| 5 | 45.80 | 45.70 | 0.19432 | 0.0 | 3.06465 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.065 |
| 6 | 45.70 | 45.60 | 0.19411 | 0.0 | 3.06125 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.061 |
| 7 | 45.60 | 45.50 | 0.19389 | 0.0 | 3.05785 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.058 |
| 8 | 45.50 | 45.40 | 0.19368 | 0.0 | 3.05446 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.054 |
| 9 | 45.40 | 45.30 | 0.19346 | 0.0 | 3.05106 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.051 |
| 10 | 45.30 | 45.20 | 0.19325 | 0.0 | 3.04766 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.048 |
| 11 | 45.20 | 45.10 | 0.19303 | 0.0 | 3.04427 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.044 |
| 12 | 45.10 | 45.00 | 0.19282 | 0.0 | 3.04087 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.041 |
| 13 | 45.00 | 44.90 | 0.19260 | 0.0 | 3.03747 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.037 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.05780 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 45.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 45.800 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.18 | 5.56 | 0.00 | 5.56 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 5.56 | 0.00 | 5.56 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 5.56 | 0.00 | 5.56 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 5.56 | 0.00 | 5.56 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 5.56 | 0.00 | 5.56 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 5.56 | 0.00 | 5.56 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 5.56 | 0.00 | 5.56 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 5.56 | 0.00 | 5.56 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 5.55 | 0.00 | 5.55 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 5.55 | 0.00 | 5.55 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 5.55 | 0.00 | 5.55 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 5.55 | 0.00 | 5.55 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 26.92 | 0.00 | 4.80 | 167.10 | 7.22 | 5.55 | 0.00 | 5.55 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK SUMMER NOLOAD RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.19260 | 26.92 | 0.00 | 4.80 | 167.10 | 7.22 | 5.55 | 0.00 | 5.55 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 26.92 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

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

| NO. | DIST km | DIST km | $m^3/s$ | EFF | VELO m/s | TIME days | m | m | $m^3$ | AREA $m^2$ | AREA $m^2$ | PRISM $m^3$ | VELO m/s | $m^2/s$ | VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.19288 | 0.0 | 0.77535 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.775 |
| 15 | 44.80 | 44.70 | 0.19315 | 0.0 | 0.77645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.776 |
| 16 | 44.70 | 44.60 | 0.19343 | 0.0 | 0.77756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.778 |
| 17 | 44.60 | 44.50 | 0.19370 | 0.0 | 0.77866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.779 |
| 18 | 44.50 | 44.40 | 0.19398 | 0.0 | 0.77977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.780 |
| 19 | 44.40 | 44.30 | 0.19425 | 0.0 | 0.78087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.781 |
| 20 | 44.30 | 44.20 | 0.19453 | 0.0 | 0.78198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.782 |
| 21 | 44.20 | 44.10 | 0.19480 | 0.0 | 0.78308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.783 |
| 22 | 44.10 | 44.00 | 0.19508 | 0.0 | 0.78419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.784 |
| 23 | 44.00 | 43.90 | 0.19535 | 0.0 | 0.78530 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.785 |
| 24 | 43.90 | 43.80 | 0.19563 | 0.0 | 0.78640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.786 |
| 25 | 43.80 | 43.70 | 0.19590 | 0.0 | 0.78751 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.788 |
| 26 | 43.70 | 43.60 | 0.19618 | 0.0 | 0.78861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.789 |
| 27 | 43.60 | 43.50 | 0.19645 | 0.0 | 0.78972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.790 |
| 28 | 43.50 | 43.40 | 0.19673 | 0.0 | 0.79082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.791 |
| 29 | 43.40 | 43.30 | 0.19700 | 0.0 | 0.79193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.792 |
| 30 | 43.30 | 43.20 | 0.19728 | 0.0 | 0.79303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.793 |
| 31 | 43.20 | 43.10 | 0.19755 | 0.0 | 0.79414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.794 |
| 32 | 43.10 | 43.00 | 0.19783 | 0.0 | 0.79524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.795 |
| 33 | 43.00 | 42.90 | 0.19810 | 0.0 | 0.79635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.796 |
| 34 | 42.90 | 42.80 | 0.19838 | 0.0 | 0.79746 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.797 |
| 35 | 42.80 | 42.70 | 0.19865 | 0.0 | 0.79856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.799 |
| 36 | 42.70 | 42.60 | 0.19893 | 0.0 | 0.79967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.800 |
| 37 | 42.60 | 42.50 | 0.19920 | 0.0 | 0.80077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.801 |
| 38 | 42.50 | 42.40 | 0.19948 | 0.0 | 0.80188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.802 |
| 39 | 42.40 | 42.30 | 0.19975 | 0.0 | 0.80298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.803 |
| 40 | 42.30 | 42.20 | 0.20003 | 0.0 | 0.80409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.804 |
| 41 | 42.20 | 42.10 | 0.20030 | 0.0 | 0.80519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.805 |
| 42 | 42.10 | 42.00 | 0.20058 | 0.0 | 0.80630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.806 |
| 43 | 42.00 | 41.90 | 0.20085 | 0.0 | 0.80741 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.807 |
| 44 | 41.90 | 41.80 | 0.20113 | 0.0 | 0.80851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 45 | 41.80 | 41.70 | 0.20140 | 0.0 | 0.80962 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 46 | 41.70 | 41.60 | 0.20168 | 0.0 | 0.81072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 47 | 41.60 | 41.50 | 0.20195 | 0.0 | 0.81183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 48 | 41.50 | 41.40 | 0.20223 | 0.0 | 0.81293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 49 | 41.40 | 41.30 | 0.20250 | 0.0 | 0.81404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 50 | 41.30 | 41.20 | 0.20278 | 0.0 | 0.81514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 51 | 41.20 | 41.10 | 0.20305 | 0.0 | 0.81625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 52 | 41.10 | 41.00 | 0.20333 | 0.0 | 0.81735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.817 |
| 53 | 41.00 | 40.90 | 0.20360 | 0.0 | 0.81846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 54 | 40.90 | 40.80 | 0.20388 | 0.0 | 0.81957 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 55 | 40.80 | 40.70 | 0.20415 | 0.0 | 0.82067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 56 | 40.70 | 40.60 | 0.20443 | 0.0 | 0.82178 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 57 | 40.60 | 40.50 | 0.20470 | 0.0 | 0.82288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 58 | 40.50 | 40.40 | 0.20498 | 0.0 | 0.82399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 59 | 40.40 | 40.30 | 0.20525 | 0.0 | 0.82509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 60 | 40.30 | 40.20 | 0.20553 | 0.0 | 0.82620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |
| 61 | 40.20 | 40.10 | 0.20580 | 0.0 | 0.82730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.827 |
| 62 | 40.10 | 40.00 | 0.20608 | 0.0 | 0.82841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 40.00 | 39.90 | 0.20635 | 0.0 | 0.82951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |
| 64 | 39.90 | 39.80 | 0.20663 | 0.0 | 0.83062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 65 | 39.80 | 39.70 | 0.20690 | 0.0 | 0.83173 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 66 | 39.70 | 39.60 | 0.20718 | 0.0 | 0.83283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 67 | 39.60 | 39.50 | 0.20745 | 0.0 | 0.83394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 68 | 39.50 | 39.40 | 0.20773 | 0.0 | 0.83504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 69 | 39.40 | 39.30 | 0.20800 | 0.0 | 0.83615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 70 | 39.30 | 39.20 | 0.20828 | 0.0 | 0.83725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 71 | 39.20 | 39.10 | 0.20855 | 0.0 | 0.83836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.838 |
| 72 | 39.10 | 39.00 | 0.20883 | 0.0 | 0.83946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 73 | 39.00 | 38.90 | 0.20910 | 0.0 | 0.84057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 74 | 38.90 | 38.80 | 0.20938 | 0.0 | 0.84168 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 75 | 38.80 | 38.70 | 0.20965 | 0.0 | 0.84278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 76 | 38.70 | 38.60 | 0.20993 | 0.0 | 0.84389 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 77 | 38.60 | 38.50 | 0.21020 | 0.0 | 0.84499 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 78 | 38.50 | 38.40 | 0.21048 | 0.0 | 0.84610 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 79 | 38.40 | 38.30 | 0.21075 | 0.0 | 0.84720 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 80 | 38.30 | 38.20 | 0.21103 | 0.0 | 0.84831 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.848 |
| 81 | 38.20 | 38.10 | 0.21130 | 0.0 | 0.84941 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| TOT | | | | | | 0.10 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.81180 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 0.10 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 7.98 | 13.61 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 7.98 | 13.61 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 7.98 | 13.62 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 7.98 | 13.62 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 7.98 | 13.63 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 7.98 | 13.63 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 7.98 | 13.64 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 7.98 | 13.64 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 7.98 | 13.65 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 7.98 | 13.65 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 7.98 | 13.66 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 7.98 | 13.66 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 7.98 | 13.67 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 7.98 | 13.67 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 7.98 | 13.68 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 7.98 | 13.68 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 7.98 | 13.69 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 7.98 | 13.69 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 7.98 | 13.70 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 7.98 | 13.70 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 42.800 | 7.98 | 13.71 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 42.700 | 7.98 | 13.72 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 7.98 | 13.72 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 7.98 | 13.73 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 7.98 | 13.73 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 7.98 | 13.74 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 7.98 | 13.74 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 7.98 | 13.75 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 7.98 | 13.75 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.09 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 26.92 | 0.00 | 4.79 | 166.86 | 7.19 | 5.54 | 0.00 | 5.54 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 26.92 | 0.00 | 4.79 | 166.62 | 7.16 | 5.53 | 0.00 | 5.53 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 26.92 | 0.00 | 4.78 | 166.39 | 7.13 | 5.52 | 0.00 | 5.52 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 26.92 | 0.00 | 4.77 | 166.15 | 7.10 | 5.51 | 0.00 | 5.51 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 26.92 | 0.00 | 4.77 | 165.92 | 7.07 | 5.50 | 0.00 | 5.50 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 26.92 | 0.00 | 4.76 | 165.68 | 7.05 | 5.49 | 0.00 | 5.49 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 26.92 | 0.00 | 4.75 | 165.45 | 7.02 | 5.48 | 0.00 | 5.48 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 26.92 | 0.00 | 4.75 | 165.21 | 7.00 | 5.47 | 0.00 | 5.47 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 26.92 | 0.00 | 4.74 | 164.98 | 6.97 | 5.46 | 0.00 | 5.46 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 26.92 | 0.00 | 4.73 | 164.75 | 6.95 | 5.45 | 0.00 | 5.45 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 26.92 | 0.00 | 4.73 | 164.52 | 6.92 | 5.44 | 0.00 | 5.44 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 26.92 | 0.00 | 4.72 | 164.29 | 6.90 | 5.43 | 0.00 | 5.43 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 26.92 | 0.00 | 4.71 | 164.05 | 6.88 | 5.42 | 0.00 | 5.42 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 26.92 | 0.00 | 4.71 | 163.83 | 6.85 | 5.41 | 0.00 | 5.41 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 26.92 | 0.00 | 4.70 | 163.60 | 6.83 | 5.40 | 0.00 | 5.40 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 26.92 | 0.00 | 4.69 | 163.37 | 6.81 | 5.39 | 0.00 | 5.39 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 26.92 | 0.00 | 4.69 | 163.14 | 6.79 | 5.38 | 0.00 | 5.38 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 26.92 | 0.00 | 4.68 | 162.91 | 6.77 | 5.37 | 0.00 | 5.37 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 26.92 | 0.00 | 4.67 | 162.69 | 6.75 | 5.36 | 0.00 | 5.36 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 26.92 | 0.00 | 4.67 | 162.46 | 6.73 | 5.35 | 0.00 | 5.35 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 26.92 | 0.00 | 4.66 | 162.24 | 6.71 | 5.34 | 0.00 | 5.34 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 26.92 | 0.00 | 4.65 | 162.01 | 6.69 | 5.33 | 0.00 | 5.33 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 26.92 | 0.00 | 4.65 | 161.79 | 6.68 | 5.32 | 0.00 | 5.32 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 26.92 | 0.00 | 4.64 | 161.56 | 6.66 | 5.31 | 0.00 | 5.31 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 26.92 | 0.00 | 4.63 | 161.34 | 6.64 | 5.30 | 0.00 | 5.30 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 26.92 | 0.00 | 4.63 | 161.12 | 6.62 | 5.29 | 0.00 | 5.29 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 26.92 | 0.00 | 4.62 | 160.90 | 6.61 | 5.28 | 0.00 | 5.28 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 26.92 | 0.00 | 4.62 | 160.68 | 6.59 | 5.27 | 0.00 | 5.27 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 26.92 | 0.00 | 4.61 | 160.46 | 6.58 | 5.26 | 0.00 | 5.26 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 26.92 | 0.00 | 4.60 | 160.24 | 6.56 | 5.25 | 0.00 | 5.25 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 26.92 | 0.00 | 4.60 | 160.02 | 6.55 | 5.24 | 0.00 | 5.24 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 26.92 | 0.00 | 4.59 | 159.80 | 6.53 | 5.23 | 0.00 | 5.23 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 26.92 | 0.00 | 4.58 | 159.58 | 6.52 | 5.22 | 0.00 | 5.22 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 26.92 | 0.00 | 4.58 | 159.36 | 6.50 | 5.21 | 0.00 | 5.21 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 26.92 | 0.00 | 4.57 | 159.15 | 6.49 | 5.20 | 0.00 | 5.20 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 26.92 | 0.00 | 4.57 | 158.93 | 6.47 | 5.19 | 0.00 | 5.19 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 26.92 | 0.00 | 4.56 | 158.72 | 6.46 | 5.19 | 0.00 | 5.19 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 26.92 | 0.00 | 4.55 | 158.50 | 6.45 | 5.18 | 0.00 | 5.18 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 26.92 | 0.00 | 4.55 | 158.29 | 6.44 | 5.17 | 0.00 | 5.17 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 26.92 | 0.00 | 4.54 | 158.07 | 6.42 | 5.16 | 0.00 | 5.16 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 26.92 | 0.00 | 4.53 | 157.86 | 6.41 | 5.15 | 0.00 | 5.15 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 26.92 | 0.00 | 4.53 | 157.65 | 6.40 | 5.14 | 0.00 | 5.14 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 26.92 | 0.00 | 4.52 | 157.43 | 6.39 | 5.13 | 0.00 | 5.13 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 26.92 | 0.00 | 4.52 | 157.22 | 6.38 | 5.12 | 0.00 | 5.12 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 26.92 | 0.00 | 4.51 | 157.01 | 6.37 | 5.11 | 0.00 | 5.11 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |
| 59 | 40.300 | 26.92 | 0.00 | 4.50 | 156.80 | 6.35 | 5.10 | 0.00 | 5.10 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 40.200 | 26.92 | 0.00 | 4.50 | 156.59 | 6.34 | 5.09 | 0.00 | 5.09 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 26.92 | 0.00 | 4.49 | 156.38 | 6.33 | 5.08 | 0.00 | 5.08 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 26.92 | 0.00 | 4.49 | 156.17 | 6.32 | 5.08 | 0.00 | 5.08 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 26.92 | 0.00 | 4.48 | 155.97 | 6.31 | 5.07 | 0.00 | 5.07 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 26.92 | 0.00 | 4.47 | 155.76 | 6.30 | 5.06 | 0.00 | 5.06 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 26.92 | 0.00 | 4.47 | 155.55 | 6.29 | 5.05 | 0.00 | 5.05 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 26.92 | 0.00 | 4.46 | 155.34 | 6.29 | 5.04 | 0.00 | 5.04 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 26.92 | 0.00 | 4.46 | 155.14 | 6.28 | 5.03 | 0.00 | 5.03 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 26.92 | 0.00 | 4.45 | 154.93 | 6.27 | 5.02 | 0.00 | 5.02 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 26.92 | 0.00 | 4.44 | 154.73 | 6.26 | 5.01 | 0.00 | 5.01 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 26.92 | 0.00 | 4.44 | 154.52 | 6.25 | 5.00 | 0.00 | 5.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 26.92 | 0.00 | 4.43 | 154.32 | 6.24 | 5.00 | 0.00 | 5.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 26.92 | 0.00 | 4.43 | 154.12 | 6.23 | 4.99 | 0.00 | 4.99 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 26.92 | 0.00 | 4.42 | 153.91 | 6.23 | 4.98 | 0.00 | 4.98 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 26.92 | 0.00 | 4.42 | 153.71 | 6.22 | 4.97 | 0.00 | 4.97 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 26.92 | 0.00 | 4.41 | 153.51 | 6.21 | 4.96 | 0.00 | 4.96 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 26.92 | 0.00 | 4.40 | 153.31 | 6.20 | 4.95 | 0.00 | 4.95 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 26.92 | 0.00 | 4.40 | 153.11 | 6.20 | 4.94 | 0.00 | 4.94 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 26.92 | 0.00 | 4.39 | 152.91 | 6.19 | 4.94 | 0.00 | 4.94 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 26.92 | 0.00 | 4.39 | 152.71 | 6.18 | 4.93 | 0.00 | 4.93 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 26.92 | 0.00 | 4.38 | 152.51 | 6.17 | 4.92 | 0.00 | 4.92 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 26.92 | 0.00 | 4.38 | 152.31 | 6.17 | 4.91 | 0.00 | 4.91 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK SUMMER NOLOAD RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21130 | 26.92 | 0.00 | 4.38 | 152.31 | 6.17 | 4.91 | 0.00 | 4.91 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 26.92 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.00280 | 26.92 | 0.03 | 8.60 | 89.10 | 5.00 | 5.24 | 0.00 | 5.24 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.21180 | 0.0 | 0.21542 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.215 |
| 83 | 38.00 | 37.90 | 0.21229 | 0.0 | 0.21593 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.216 |
| 84 | 37.90 | 37.80 | 0.21279 | 0.0 | 0.21644 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.216 |
| 85 | 37.80 | 37.70 | 0.21329 | 0.0 | 0.21694 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.217 |
| 86 | 37.70 | 37.60 | 0.21378 | 0.0 | 0.21745 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.217 |
| 87 | 37.60 | 37.50 | 0.21428 | 0.0 | 0.21795 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.218 |
| 88 | 37.50 | 37.40 | 0.21478 | 0.0 | 0.21846 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.218 |
| 89 | 37.40 | 37.30 | 0.21527 | 0.0 | 0.21896 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.219 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 37.30 | 37.20 | 0.21577 | 0.0 | 0.21947 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.219 |
| 91 | 37.20 | 37.10 | 0.21907 | 1.3 | 0.22282 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.223 |
| 92 | 37.10 | 37.00 | 0.21956 | 1.3 | 0.22332 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.223 |
| 93 | 37.00 | 36.90 | 0.22006 | 1.3 | 0.22383 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 94 | 36.90 | 36.80 | 0.22056 | 1.3 | 0.22433 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 95 | 36.80 | 36.70 | 0.22105 | 1.3 | 0.22484 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 96 | 36.70 | 36.60 | 0.22155 | 1.3 | 0.22534 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 97 | 36.60 | 36.50 | 0.22205 | 1.3 | 0.22585 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 98 | 36.50 | 36.40 | 0.22254 | 1.3 | 0.22636 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 99 | 36.40 | 36.30 | 0.22304 | 1.3 | 0.22686 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 100 | 36.30 | 36.20 | 0.22354 | 1.3 | 0.22737 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 101 | 36.20 | 36.10 | 0.22403 | 1.2 | 0.22787 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 102 | 36.10 | 36.00 | 0.22453 | 1.2 | 0.22838 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 103 | 36.00 | 35.90 | 0.22503 | 1.2 | 0.22888 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.229 |
| 104 | 35.90 | 35.80 | 0.22552 | 1.2 | 0.22939 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.229 |
| 105 | 35.80 | 35.70 | 0.22602 | 1.2 | 0.22989 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.230 |
| 106 | 35.70 | 35.60 | 0.22652 | 1.2 | 0.23040 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.230 |
| 107 | 35.60 | 35.50 | 0.22701 | 1.2 | 0.23090 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 108 | 35.50 | 35.40 | 0.22751 | 1.2 | 0.23141 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 109 | 35.40 | 35.30 | 0.22801 | 1.2 | 0.23191 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 110 | 35.30 | 35.20 | 0.22850 | 1.2 | 0.23242 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 111 | 35.20 | 35.10 | 0.22900 | 1.2 | 0.23292 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 112 | 35.10 | 35.00 | 0.22950 | 1.2 | 0.23343 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 113 | 35.00 | 34.90 | 0.22999 | 1.2 | 0.23393 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 114 | 34.90 | 34.80 | 0.23049 | 1.2 | 0.23444 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 115 | 34.80 | 34.70 | 0.23099 | 1.2 | 0.23494 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 116 | 34.70 | 34.60 | 0.23148 | 1.2 | 0.23545 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 117 | 34.60 | 34.50 | 0.23198 | 1.2 | 0.23595 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 118 | 34.50 | 34.40 | 0.23248 | 1.2 | 0.23646 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 119 | 34.40 | 34.30 | 0.23297 | 1.2 | 0.23696 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 120 | 34.30 | 34.20 | 0.23347 | 1.2 | 0.23747 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 121 | 34.20 | 34.10 | 0.23397 | 1.2 | 0.23797 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 122 | 34.10 | 34.00 | 0.23446 | 1.2 | 0.23848 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 123 | 34.00 | 33.90 | 0.23496 | 1.2 | 0.23898 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 124 | 33.90 | 33.80 | 0.23546 | 1.2 | 0.23949 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 125 | 33.80 | 33.70 | 0.23595 | 1.2 | 0.23999 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 126 | 33.70 | 33.60 | 0.23645 | 1.2 | 0.24050 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 127 | 33.60 | 33.50 | 0.23694 | 1.2 | 0.24100 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 128 | 33.50 | 33.40 | 0.23744 | 1.2 | 0.24151 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 129 | 33.40 | 33.30 | 0.23794 | 1.2 | 0.24201 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 130 | 33.30 | 33.20 | 0.23843 | 1.2 | 0.24252 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 131 | 33.20 | 33.10 | 0.23893 | 1.2 | 0.24302 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 132 | 33.10 | 33.00 | 0.23943 | 1.2 | 0.24353 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 133 | 33.00 | 32.90 | 0.23992 | 1.2 | 0.24403 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 134 | 32.90 | 32.80 | 0.24042 | 1.2 | 0.24454 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 135 | 32.80 | 32.70 | 0.24092 | 1.2 | 0.24504 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 136 | 32.70 | 32.60 | 0.24141 | 1.2 | 0.24555 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 137 | 32.60 | 32.50 | 0.24191 | 1.2 | 0.24606 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 138 | 32.50 | 32.40 | 0.24241 | 1.2 | 0.24656 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 139 | 32.40 | 32.30 | 0.24290 | 1.2 | 0.24707 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 140 | 32.30 | 32.20 | 0.24340 | 1.2 | 0.24757 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 141 | 32.20 | 32.10 | 0.24390 | 1.1 | 0.24808 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 142 | 32.10 | 32.00 | 0.24439 | 1.1 | 0.24858 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 143 | 32.00 | 31.90 | 0.24489 | 1.1 | 0.24909 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 144 | 31.90 | 31.80 | 0.24539 | 1.1 | 0.24959 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 145 | 31.80 | 31.70 | 0.24588 | 1.1 | 0.25010 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 146 | 31.70 | 31.60 | 0.24638 | 1.1 | 0.25060 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 147 | 31.60 | 31.50 | 0.24688 | 1.1 | 0.25111 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 148 | 31.50 | 31.40 | 0.24737 | 1.1 | 0.25161 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 149 | 31.40 | 31.30 | 0.24787 | 1.1 | 0.25212 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 150 | 31.30 | 31.20 | 0.24837 | 1.1 | 0.25262 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 151 | 31.20 | 31.10 | 0.24886 | 1.1 | 0.25313 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 152 | 31.10 | 31.00 | 0.24936 | 1.1 | 0.25363 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 153 | 31.00 | 30.90 | 0.24986 | 1.1 | 0.25414 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 154 | 30.90 | 30.80 | 0.25035 | 1.1 | 0.25464 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 155 | 30.80 | 30.70 | 0.25085 | 1.1 | 0.25515 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 156 | 30.70 | 30.60 | 0.25135 | 1.1 | 0.25565 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 157 | 30.60 | 30.50 | 0.25184 | 1.1 | 0.25616 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 158 | 30.50 | 30.40 | 0.25234 | 1.1 | 0.25666 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 159 | 30.40 | 30.30 | 0.25284 | 1.1 | 0.25717 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 160 | 30.30 | 30.20 | 0.25333 | 1.1 | 0.25767 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 161 | 30.20 | 30.10 | 0.25383 | 1.1 | 0.25818 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 162 | 30.10 | 30.00 | 0.25433 | 1.1 | 0.25868 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 163 | 30.00 | 29.90 | 0.25482 | 1.1 | 0.25919 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 164 | 29.90 | 29.80 | 0.25532 | 1.1 | 0.25969 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 165 | 29.80 | 29.70 | 0.25582 | 1.1 | 0.26020 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 166 | 29.70 | 29.60 | 0.25631 | 1.1 | 0.26070 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 167 | 29.60 | 29.50 | 0.25681 | 1.1 | 0.26121 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 168 | 29.50 | 29.40 | 0.25731 | 1.1 | 0.26171 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 169 | 29.40 | 29.30 | 0.25780 | 1.1 | 0.26222 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 170 | 29.30 | 29.20 | 0.25830 | 1.1 | 0.26272 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| TOT | | | | | | 0.43 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.23945 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.53 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 7.98 | 4.92 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 7.98 | 4.95 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 7.98 | 4.95 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 37.000 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93 | 36.900 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 31.800 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 31.700 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.45 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 26.92 | 0.00 | 4.36 | 152.07 | 6.16 | 4.91 | 0.00 | 4.91 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 26.92 | 0.00 | 4.35 | 151.83 | 6.16 | 4.90 | 0.00 | 4.90 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 26.92 | 0.00 | 4.34 | 151.60 | 6.16 | 4.90 | 0.00 | 4.90 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 26.92 | 0.00 | 4.33 | 151.36 | 6.15 | 4.90 | 0.00 | 4.90 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 26.92 | 0.00 | 4.32 | 151.12 | 6.15 | 4.89 | 0.00 | 4.89 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 26.92 | 0.00 | 4.31 | 150.89 | 6.15 | 4.89 | 0.00 | 4.89 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 26.92 | 0.00 | 4.30 | 150.66 | 6.15 | 4.89 | 0.00 | 4.89 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 26.92 | 0.00 | 4.29 | 150.42 | 6.14 | 4.89 | 0.00 | 4.89 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 26.92 | 0.00 | 4.28 | 150.19 | 6.14 | 4.88 | 0.00 | 4.88 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 26.92 | 0.00 | 4.33 | 149.18 | 6.12 | 4.88 | 0.00 | 4.88 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 26.92 | 0.00 | 4.32 | 148.96 | 6.12 | 4.88 | 0.00 | 4.88 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 26.92 | 0.00 | 4.31 | 148.74 | 6.12 | 4.88 | 0.00 | 4.88 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 26.92 | 0.00 | 4.30 | 148.51 | 6.12 | 4.88 | 0.00 | 4.88 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 26.92 | 0.00 | 4.29 | 148.29 | 6.12 | 4.87 | 0.00 | 4.87 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 96 | 36.600 | 26.92 | 0.00 | 4.28 | 148.07 | 6.12 | 4.87 | 0.00 | 4.87 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 36.500 | 26.92 | 0.00 | 4.27 | 147.85 | 6.11 | 4.87 | 0.00 | 4.87 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 26.92 | 0.00 | 4.26 | 147.63 | 6.11 | 4.86 | 0.00 | 4.86 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 26.92 | 0.00 | 4.25 | 147.42 | 6.11 | 4.86 | 0.00 | 4.86 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 26.92 | 0.00 | 4.24 | 147.20 | 6.11 | 4.86 | 0.00 | 4.86 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 26.92 | 0.00 | 4.23 | 146.99 | 6.11 | 4.86 | 0.00 | 4.86 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 26.92 | 0.00 | 4.22 | 146.77 | 6.11 | 4.85 | 0.00 | 4.85 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 26.92 | 0.00 | 4.22 | 146.56 | 6.11 | 4.85 | 0.00 | 4.85 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 26.92 | 0.00 | 4.21 | 146.34 | 6.11 | 4.85 | 0.00 | 4.85 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 26.92 | 0.00 | 4.20 | 146.13 | 6.10 | 4.84 | 0.00 | 4.84 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 26.92 | 0.00 | 4.19 | 145.92 | 6.10 | 4.84 | 0.00 | 4.84 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 26.92 | 0.00 | 4.18 | 145.71 | 6.10 | 4.84 | 0.00 | 4.84 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 26.92 | 0.00 | 4.17 | 145.50 | 6.10 | 4.84 | 0.00 | 4.84 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 26.92 | 0.00 | 4.16 | 145.30 | 6.10 | 4.83 | 0.00 | 4.83 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 26.92 | 0.00 | 4.15 | 145.09 | 6.10 | 4.83 | 0.00 | 4.83 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 26.92 | 0.00 | 4.14 | 144.88 | 6.10 | 4.83 | 0.00 | 4.83 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 26.92 | 0.00 | 4.13 | 144.68 | 6.10 | 4.83 | 0.00 | 4.83 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 26.92 | 0.00 | 4.12 | 144.47 | 6.10 | 4.82 | 0.00 | 4.82 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 26.92 | 0.00 | 4.12 | 144.27 | 6.10 | 4.82 | 0.00 | 4.82 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 26.92 | 0.00 | 4.11 | 144.07 | 6.10 | 4.82 | 0.00 | 4.82 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 26.92 | 0.00 | 4.10 | 143.86 | 6.10 | 4.82 | 0.00 | 4.82 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 26.92 | 0.00 | 4.09 | 143.66 | 6.10 | 4.81 | 0.00 | 4.81 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 26.92 | 0.00 | 4.08 | 143.46 | 6.10 | 4.81 | 0.00 | 4.81 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 26.92 | 0.00 | 4.07 | 143.26 | 6.10 | 4.81 | 0.00 | 4.81 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 26.92 | 0.00 | 4.06 | 143.07 | 6.10 | 4.81 | 0.00 | 4.81 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 26.92 | 0.00 | 4.05 | 142.87 | 6.10 | 4.80 | 0.00 | 4.80 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 26.92 | 0.00 | 4.05 | 142.67 | 6.10 | 4.80 | 0.00 | 4.80 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 26.92 | 0.00 | 4.04 | 142.48 | 6.10 | 4.80 | 0.00 | 4.80 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 26.92 | 0.00 | 4.03 | 142.28 | 6.10 | 4.80 | 0.00 | 4.80 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 26.92 | 0.00 | 4.02 | 142.09 | 6.10 | 4.79 | 0.00 | 4.79 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 26.92 | 0.00 | 4.01 | 141.89 | 6.10 | 4.79 | 0.00 | 4.79 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 26.92 | 0.00 | 4.00 | 141.70 | 6.10 | 4.79 | 0.00 | 4.79 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 26.92 | 0.00 | 3.99 | 141.51 | 6.10 | 4.79 | 0.00 | 4.79 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 26.92 | 0.00 | 3.99 | 141.32 | 6.10 | 4.78 | 0.00 | 4.78 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 26.92 | 0.00 | 3.98 | 141.13 | 6.10 | 4.78 | 0.00 | 4.78 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 26.92 | 0.00 | 3.97 | 140.94 | 6.10 | 4.78 | 0.00 | 4.78 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 26.92 | 0.00 | 3.96 | 140.75 | 6.10 | 4.78 | 0.00 | 4.78 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 26.92 | 0.00 | 3.95 | 140.56 | 6.10 | 4.77 | 0.00 | 4.77 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 26.92 | 0.00 | 3.95 | 140.37 | 6.10 | 4.77 | 0.00 | 4.77 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 26.92 | 0.00 | 3.94 | 140.19 | 6.10 | 4.77 | 0.00 | 4.77 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 26.92 | 0.00 | 3.93 | 140.00 | 6.10 | 4.77 | 0.00 | 4.77 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 26.92 | 0.00 | 3.92 | 139.82 | 6.10 | 4.76 | 0.00 | 4.76 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 26.92 | 0.00 | 3.91 | 139.63 | 6.10 | 4.76 | 0.00 | 4.76 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 26.92 | 0.00 | 3.91 | 139.45 | 6.10 | 4.76 | 0.00 | 4.76 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 26.92 | 0.00 | 3.90 | 139.27 | 6.10 | 4.76 | 0.00 | 4.76 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 26.92 | 0.00 | 3.89 | 139.09 | 6.10 | 4.76 | 0.00 | 4.76 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 26.92 | 0.00 | 3.88 | 138.91 | 6.10 | 4.75 | 0.00 | 4.75 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 26.92 | 0.00 | 3.87 | 138.72 | 6.10 | 4.75 | 0.00 | 4.75 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 26.92 | 0.00 | 3.87 | 138.55 | 6.10 | 4.75 | 0.00 | 4.75 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 26.92 | 0.00 | 3.86 | 138.37 | 6.10 | 4.75 | 0.00 | 4.75 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 26.92 | 0.00 | 3.85 | 138.19 | 6.10 | 4.74 | 0.00 | 4.74 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 26.92 | 0.00 | 3.84 | 138.01 | 6.10 | 4.74 | 0.00 | 4.74 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 148 | 31.400 | 26.92 | 0.00 | 3.83 | 137.83 | 6.10 | 4.74 | 0.00 | 4.74 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | 31.300 | 26.92 | 0.00 | 3.83 | 137.66 | 6.10 | 4.74 | 0.00 | 4.74 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 26.92 | 0.00 | 3.82 | 137.48 | 6.10 | 4.74 | 0.00 | 4.74 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 26.92 | 0.00 | 3.81 | 137.31 | 6.10 | 4.73 | 0.00 | 4.73 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 26.92 | 0.00 | 3.80 | 137.13 | 6.10 | 4.73 | 0.00 | 4.73 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 26.92 | 0.00 | 3.80 | 136.96 | 6.10 | 4.73 | 0.00 | 4.73 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 26.92 | 0.00 | 3.79 | 136.79 | 6.10 | 4.73 | 0.00 | 4.73 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 26.92 | 0.00 | 3.78 | 136.62 | 6.10 | 4.73 | 0.00 | 4.73 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 26.92 | 0.00 | 3.77 | 136.45 | 6.10 | 4.72 | 0.00 | 4.72 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 26.92 | 0.00 | 3.77 | 136.28 | 6.10 | 4.72 | 0.00 | 4.72 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 26.92 | 0.00 | 3.76 | 136.11 | 6.10 | 4.72 | 0.00 | 4.72 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 26.92 | 0.00 | 3.75 | 135.94 | 6.11 | 4.72 | 0.00 | 4.72 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 26.92 | 0.00 | 3.74 | 135.77 | 6.11 | 4.72 | 0.00 | 4.72 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 26.92 | 0.00 | 3.74 | 135.60 | 6.11 | 4.71 | 0.00 | 4.71 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 26.92 | 0.00 | 3.73 | 135.43 | 6.11 | 4.71 | 0.00 | 4.71 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 26.92 | 0.00 | 3.72 | 135.27 | 6.11 | 4.71 | 0.00 | 4.71 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 26.92 | 0.00 | 3.72 | 135.10 | 6.11 | 4.71 | 0.00 | 4.71 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 26.92 | 0.00 | 3.71 | 134.94 | 6.11 | 4.71 | 0.00 | 4.71 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 26.92 | 0.00 | 3.70 | 134.77 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 26.92 | 0.00 | 3.69 | 134.61 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 26.92 | 0.00 | 3.69 | 134.44 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 26.92 | 0.00 | 3.68 | 134.28 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 26.92 | 0.00 | 3.67 | 134.12 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK SUMMER NOLOAD RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.25830 | 26.92 | 0.00 | 3.67 | 134.12 | 6.11 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 172 | 29.10 | 29.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 173 | 29.00 | 28.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 174 | 28.90 | 28.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 175 | 28.80 | 28.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 176 | 28.70 | 28.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 177 | 28.60 | 28.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 178 | 28.50 | 28.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 179 | 28.40 | 28.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 180 | 28.30 | 28.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | 28.20 | 28.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 182 | 28.10 | 28.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 183 | 28.00 | 27.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 184 | 27.90 | 27.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 185 | 27.80 | 27.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 186 | 27.70 | 27.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 187 | 27.60 | 27.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 188 | 27.50 | 27.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 189 | 27.40 | 27.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 190 | 27.30 | 27.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 191 | 27.20 | 27.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 192 | 27.10 | 27.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 193 | 27.00 | 26.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 194 | 26.90 | 26.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 195 | 26.80 | 26.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 196 | 26.70 | 26.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 197 | 26.60 | 26.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 198 | 26.50 | 26.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 199 | 26.40 | 26.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 200 | 26.30 | 26.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 201 | 26.20 | 26.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 202 | 26.10 | 26.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 203 | 26.00 | 25.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 204 | 25.90 | 25.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 205 | 25.80 | 25.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 206 | 25.70 | 25.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 207 | 25.60 | 25.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 208 | 25.50 | 25.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 209 | 25.40 | 25.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 210 | 25.30 | 25.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 211 | 25.20 | 25.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 212 | 25.10 | 25.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 213 | 25.00 | 24.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 214 | 24.90 | 24.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 215 | 24.80 | 24.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 216 | 24.70 | 24.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 217 | 24.60 | 24.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 218 | 24.50 | 24.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 219 | 24.40 | 24.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 220 | 24.30 | 24.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 221 | 24.20 | 24.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| TOT | | | | | | 0.81 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.07268 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.34 | | | | | | | | | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 24.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AVG 20 DEG C RATE 1.96 0.07 0.15 0.00 0.00 0.00 0.00 1.24 0.07 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 26.92 | 0.00 | 3.67 | 134.12 | 6.10 | 4.70 | 0.00 | 4.70 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 26.92 | 0.00 | 3.67 | 134.12 | 6.09 | 4.70 | 0.00 | 4.70 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 26.92 | 0.00 | 3.67 | 134.12 | 6.08 | 4.70 | 0.00 | 4.70 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 26.92 | 0.00 | 3.67 | 134.12 | 6.07 | 4.70 | 0.00 | 4.70 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 26.92 | 0.00 | 3.67 | 134.12 | 6.06 | 4.71 | 0.00 | 4.71 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 26.92 | 0.00 | 3.67 | 134.12 | 6.06 | 4.71 | 0.00 | 4.71 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 26.92 | 0.00 | 3.67 | 134.12 | 6.05 | 4.71 | 0.00 | 4.71 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 26.92 | 0.00 | 3.67 | 134.12 | 6.04 | 4.71 | 0.00 | 4.71 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 26.92 | 0.00 | 3.67 | 134.12 | 6.03 | 4.71 | 0.00 | 4.71 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 26.92 | 0.00 | 3.67 | 134.12 | 6.02 | 4.71 | 0.00 | 4.71 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 26.92 | 0.00 | 3.67 | 134.12 | 6.02 | 4.72 | 0.00 | 4.72 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 26.92 | 0.00 | 3.67 | 134.12 | 6.01 | 4.72 | 0.00 | 4.72 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 26.92 | 0.00 | 3.67 | 134.12 | 6.00 | 4.72 | 0.00 | 4.72 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 26.92 | 0.00 | 3.67 | 134.12 | 6.00 | 4.72 | 0.00 | 4.72 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.99 | 4.72 | 0.00 | 4.72 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.98 | 4.72 | 0.00 | 4.72 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.98 | 4.73 | 0.00 | 4.73 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.97 | 4.73 | 0.00 | 4.73 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.97 | 4.73 | 0.00 | 4.73 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.96 | 4.73 | 0.00 | 4.73 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.96 | 4.73 | 0.00 | 4.73 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.95 | 4.74 | 0.00 | 4.74 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.95 | 4.74 | 0.00 | 4.74 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.94 | 4.74 | 0.00 | 4.74 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.94 | 4.74 | 0.00 | 4.74 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.93 | 4.74 | 0.00 | 4.74 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.93 | 4.74 | 0.00 | 4.74 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.92 | 4.75 | 0.00 | 4.75 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.92 | 4.75 | 0.00 | 4.75 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.92 | 4.75 | 0.00 | 4.75 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.91 | 4.75 | 0.00 | 4.75 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.91 | 4.75 | 0.00 | 4.75 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.91 | 4.75 | 0.00 | 4.75 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.90 | 4.76 | 0.00 | 4.76 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.90 | 4.76 | 0.00 | 4.76 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.90 | 4.76 | 0.00 | 4.76 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.89 | 4.76 | 0.00 | 4.76 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.89 | 4.76 | 0.00 | 4.76 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.89 | 4.76 | 0.00 | 4.76 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.88 | 4.76 | 0.00 | 4.76 | 0.00 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 211 | 25.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.88 | 4.77 | 0.00 | 4.77 | 0.00 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 212 | 25.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.88 | 4.77 | 0.00 | 4.77 | 0.00 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.88 | 4.77 | 0.00 | 4.77 | 0.00 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.87 | 4.77 | 0.00 | 4.77 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.87 | 4.77 | 0.00 | 4.77 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.87 | 4.77 | 0.00 | 4.77 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.87 | 4.78 | 0.00 | 4.78 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.87 | 4.78 | 0.00 | 4.78 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.86 | 4.78 | 0.00 | 4.78 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.86 | 4.78 | 0.00 | 4.78 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.86 | 4.78 | 0.00 | 4.78 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK SUMMER NOLOAD RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.25830 | 26.92 | 0.00 | 3.67 | 134.12 | 5.86 | 4.78 | 0.00 | 4.78 | 0.00 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.00280 | 26.92 | 0.05 | 11.50 | 123.40 | 5.00 | 4.55 | 0.00 | 4.55 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.25825 | 1.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.10 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 223 | 24.00 | 23.90 | 0.25820 | 1.1 | 0.03940 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.09 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 224 | 23.90 | 23.80 | 0.25814 | 1.1 | 0.03939 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 225 | 23.80 | 23.70 | 0.25809 | 1.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 226 | 23.70 | 23.60 | 0.25804 | 1.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 227 | 23.60 | 23.50 | 0.25799 | 1.1 | 0.03937 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.06 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 228 | 23.50 | 23.40 | 0.25794 | 1.1 | 0.03936 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.05 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 229 | 23.40 | 23.30 | 0.25788 | 1.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 230 | 23.30 | 23.20 | 0.25783 | 1.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 231 | 23.20 | 23.10 | 0.25778 | 1.1 | 0.03934 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.03 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 232 | 23.10 | 23.00 | 0.25773 | 1.1 | 0.03933 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.02 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 233 | 23.00 | 22.90 | 0.25768 | 1.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 234 | 22.90 | 22.80 | 0.25762 | 1.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 235 | 22.80 | 22.70 | 0.25757 | 1.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.26 | 1105.00 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 236 | 22.70 | 22.60 | 0.25752 | 1.1 | 0.03930 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.99 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 237 | 22.60 | 22.50 | 0.25747 | 1.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 238 | 22.50 | 22.40 | 0.25742 | 1.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 239 | 22.40 | 22.30 | 0.26016 | 2.1 | 0.03969 | 0.03 | 0.59 | 11.05 | 655.49 | 1105.38 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 240 | 22.30 | 22.20 | 0.26011 | 2.1 | 0.03968 | 0.03 | 0.59 | 11.05 | 655.49 | 1105.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 241 | 22.20 | 22.10 | 0.26006 | 2.1 | 0.03967 | 0.03 | 0.59 | 11.05 | 655.48 | 1105.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 242 | 22.10 | 22.00 | 0.26001 | 2.1 | 0.03967 | 0.03 | 0.59 | 11.05 | 655.48 | 1105.36 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 243 | 22.00 | 21.90 | 0.25996 | 2.1 | 0.03966 | 0.03 | 0.59 | 11.05 | 655.47 | 1105.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 244 | 21.90 | 21.80 | 0.25990 | 2.1 | 0.03965 | 0.03 | 0.59 | 11.05 | 655.47 | 1105.34 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 245 | 21.80 | 21.70 | 0.25985 | 2.1 | 0.03964 | 0.03 | 0.59 | 11.05 | 655.46 | 1105.33 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 246 | 21.70 | 21.60 | 0.25980 | 2.1 | 0.03964 | 0.03 | 0.59 | 11.05 | 655.46 | 1105.33 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 247 | 21.60 | 21.50 | 0.25975 | 2.1 | 0.03963 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.32 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 248 | 21.50 | 21.40 | 0.25970 | 2.1 | 0.03962 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.31 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 249 | 21.40 | 21.30 | 0.25964 | 2.1 | 0.03961 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.30 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 250 | 21.30 | 21.20 | 0.25959 | 2.1 | 0.03961 | 0.03 | 0.59 | 11.05 | 655.44 | 1105.30 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 251 | 21.20 | 21.10 | 0.25954 | 2.1 | 0.03960 | 0.03 | 0.59 | 11.05 | 655.44 | 1105.29 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 252 | 21.10 | 21.00 | 0.25949 | 2.1 | 0.03959 | 0.03 | 0.59 | 11.05 | 655.43 | 1105.28 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 253 | 21.00 | 20.90 | 0.25944 | 2.1 | 0.03958 | 0.03 | 0.59 | 11.05 | 655.43 | 1105.27 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 254 | 20.90 | 20.80 | 0.25938 | 2.1 | 0.03958 | 0.03 | 0.59 | 11.05 | 655.42 | 1105.27 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 255 | 20.80 | 20.70 | 0.25933 | 2.1 | 0.03957 | 0.03 | 0.59 | 11.05 | 655.42 | 1105.26 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 256 | 20.70 | 20.60 | 0.25928 | 2.1 | 0.03956 | 0.03 | 0.59 | 11.05 | 655.41 | 1105.25 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 257 | 20.60 | 20.50 | 0.25923 | 2.1 | 0.03955 | 0.03 | 0.59 | 11.05 | 655.41 | 1105.24 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 258 | 20.50 | 20.40 | 0.25918 | 2.1 | 0.03954 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.24 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 259 | 20.40 | 20.30 | 0.25912 | 2.1 | 0.03954 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.23 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 260 | 20.30 | 20.20 | 0.25907 | 2.1 | 0.03953 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.22 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 261 | 20.20 | 20.10 | 0.25902 | 2.1 | 0.03952 | 0.03 | 0.59 | 11.05 | 655.39 | 1105.21 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 262 | 20.10 | 20.00 | 0.25897 | 2.1 | 0.03951 | 0.03 | 0.59 | 11.05 | 655.39 | 1105.20 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 263 | 20.00 | 19.90 | 0.25892 | 2.1 | 0.03951 | 0.03 | 0.59 | 11.05 | 655.38 | 1105.20 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 264 | 19.90 | 19.80 | 0.25886 | 2.1 | 0.03950 | 0.03 | 0.59 | 11.05 | 655.38 | 1105.19 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 265 | 19.80 | 19.70 | 0.25881 | 2.1 | 0.03949 | 0.03 | 0.59 | 11.05 | 655.37 | 1105.18 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 266 | 19.70 | 19.60 | 0.25876 | 2.1 | 0.03948 | 0.03 | 0.59 | 11.05 | 655.37 | 1105.17 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 267 | 19.60 | 19.50 | 0.25871 | 2.1 | 0.03948 | 0.03 | 0.59 | 11.05 | 655.36 | 1105.17 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 268 | 19.50 | 19.40 | 0.25866 | 2.1 | 0.03947 | 0.03 | 0.59 | 11.05 | 655.36 | 1105.16 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 269 | 19.40 | 19.30 | 0.25861 | 2.1 | 0.03946 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.15 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 270 | 19.30 | 19.20 | 0.25855 | 2.1 | 0.03945 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.14 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 271 | 19.20 | 19.10 | 0.25850 | 2.1 | 0.03944 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.14 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 272 | 19.10 | 19.00 | 0.25845 | 2.1 | 0.03944 | 0.03 | 0.59 | 11.05 | 655.34 | 1105.13 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 273 | 19.00 | 18.90 | 0.25840 | 2.1 | 0.03943 | 0.03 | 0.59 | 11.05 | 655.34 | 1105.12 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 274 | 18.90 | 18.80 | 0.25835 | 2.1 | 0.03942 | 0.03 | 0.59 | 11.05 | 655.33 | 1105.11 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 275 | 18.80 | 18.70 | 0.25829 | 2.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.33 | 1105.11 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 276 | 18.70 | 18.60 | 0.25824 | 2.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.10 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 277 | 18.60 | 18.50 | 0.25819 | 2.1 | 0.03940 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.09 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 278 | 18.50 | 18.40 | 0.25814 | 2.1 | 0.03939 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 279 | 18.40 | 18.30 | 0.25809 | 2.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 280 | 18.30 | 18.20 | 0.25803 | 2.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 281 | 18.20 | 18.10 | 0.25798 | 2.1 | 0.03937 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.06 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 282 | 18.10 | 18.00 | 0.25793 | 2.1 | 0.03936 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.05 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 283 | 18.00 | 17.90 | 0.25788 | 2.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 284 | 17.90 | 17.80 | 0.25783 | 2.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 285 | 17.80 | 17.70 | 0.25777 | 2.1 | 0.03934 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.03 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 286 | 17.70 | 17.60 | 0.25772 | 2.1 | 0.03933 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.02 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 287 | 17.60 | 17.50 | 0.25767 | 2.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 288 | 17.50 | 17.40 | 0.25762 | 2.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 289 | 17.40 | 17.30 | 0.25757 | 2.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.26 | 1105.00 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 290 | 17.30 | 17.20 | 0.25751 | 2.1 | 0.03930 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.99 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 291 | 17.20 | 17.10 | 0.25746 | 2.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 292 | 17.10 | 17.00 | 0.25741 | 2.1 | 0.03928 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.97 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 293 | 17.00 | 16.90 | 0.25736 | 2.1 | 0.03928 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.97 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 294 | 16.90 | 16.80 | 0.25731 | 2.1 | 0.03927 | 0.03 | 0.59 | 11.05 | 655.24 | 1104.96 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 295 | 16.80 | 16.70 | 0.25725 | 2.1 | 0.03926 | 0.03 | 0.59 | 11.05 | 655.24 | 1104.95 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 296 | 16.70 | 16.60 | 0.25720 | 2.1 | 0.03925 | 0.03 | 0.59 | 11.05 | 655.23 | 1104.94 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 297 | 16.60 | 16.50 | 0.25715 | 2.1 | 0.03925 | 0.03 | 0.59 | 11.05 | 655.23 | 1104.94 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 298 | 16.50 | 16.40 | 0.25710 | 2.1 | 0.03924 | 0.03 | 0.59 | 11.05 | 655.22 | 1104.93 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 299 | 16.40 | 16.30 | 0.25705 | 2.1 | 0.03923 | 0.03 | 0.59 | 11.05 | 655.22 | 1104.92 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 300 | 16.30 | 16.20 | 0.25699 | 2.1 | 0.03922 | 0.03 | 0.59 | 11.05 | 655.21 | 1104.91 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 301 | 16.20 | 16.10 | 0.25694 | 2.1 | 0.03922 | 0.03 | 0.59 | 11.05 | 655.21 | 1104.91 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 302 | 16.10 | 16.00 | 0.25689 | 2.1 | 0.03921 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.90 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 303 | 16.00 | 15.90 | 0.25684 | 2.1 | 0.03920 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.89 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 304 | 15.90 | 15.80 | 0.25679 | 2.1 | 0.03919 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.88 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 305 | 15.80 | 15.70 | 0.25673 | 2.1 | 0.03918 | 0.03 | 0.59 | 11.05 | 655.19 | 1104.87 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 306 | 15.70 | 15.60 | 0.25668 | 2.1 | 0.03918 | 0.03 | 0.59 | 11.05 | 655.19 | 1104.87 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 307 | 15.60 | 15.50 | 0.25663 | 2.1 | 0.03917 | 0.03 | 0.59 | 11.05 | 655.18 | 1104.86 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 308 | 15.50 | 15.40 | 0.25658 | 2.1 | 0.03916 | 0.03 | 0.59 | 11.05 | 655.18 | 1104.85 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 309 | 15.40 | 15.30 | 0.25653 | 2.1 | 0.03915 | 0.03 | 0.59 | 11.05 | 655.17 | 1104.84 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 310 | 15.30 | 15.20 | 0.25647 | 2.1 | 0.03915 | 0.03 | 0.59 | 11.05 | 655.17 | 1104.84 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 311 | 15.20 | 15.10 | 0.25642 | 2.1 | 0.03914 | 0.03 | 0.59 | 11.05 | 655.16 | 1104.83 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 312 | 15.10 | 15.00 | 0.25637 | 2.1 | 0.03913 | 0.03 | 0.59 | 11.05 | 655.16 | 1104.82 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 313 | 15.00 | 14.90 | 0.25632 | 2.1 | 0.03912 | 0.03 | 0.59 | 11.05 | 655.15 | 1104.81 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 314 | 14.90 | 14.80 | 0.25627 | 2.1 | 0.03912 | 0.03 | 0.59 | 11.05 | 655.15 | 1104.80 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 315 | 14.80 | 14.70 | 0.25621 | 2.1 | 0.03911 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.80 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 316 | 14.70 | 14.60 | 0.25616 | 2.1 | 0.03910 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.79 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 317 | 14.60 | 14.50 | 0.25611 | 2.1 | 0.03909 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.78 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 318 | 14.50 | 14.40 | 0.25606 | 2.1 | 0.03909 | 0.03 | 0.59 | 11.05 | 655.13 | 1104.77 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 319 | 14.40 | 14.30 | 0.25601 | 2.1 | 0.03908 | 0.03 | 0.59 | 11.05 | 655.13 | 1104.77 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 320 | 14.30 | 14.20 | 0.25595 | 2.1 | 0.03907 | 0.03 | 0.59 | 11.05 | 655.12 | 1104.76 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 321 | 14.20 | 14.10 | 0.25590 | 2.1 | 0.03906 | 0.03 | 0.59 | 11.05 | 655.12 | 1104.75 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 322 | 14.10 | 14.00 | 0.25585 | 2.1 | 0.03905 | 0.03 | 0.59 | 11.05 | 655.11 | 1104.74 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 323 | 14.00 | 13.90 | 0.25580 | 2.1 | 0.03905 | 0.03 | 0.59 | 11.05 | 655.11 | 1104.74 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 324 | 13.90 | 13.80 | 0.25575 | 2.1 | 0.03904 | 0.03 | 0.59 | 11.05 | 655.10 | 1104.73 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 325 | 13.80 | 13.70 | 0.25569 | 2.1 | 0.03903 | 0.03 | 0.59 | 11.05 | 655.10 | 1104.72 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 326 | 13.70 | 13.60 | 0.25564 | 2.1 | 0.03902 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.71 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 327 | 13.60 | 13.50 | 0.25559 | 2.1 | 0.03902 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.70 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 328 | 13.50 | 13.40 | 0.25554 | 2.1 | 0.03901 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.70 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 329 | 13.40 | 13.30 | 0.25549 | 2.1 | 0.03900 | 0.03 | 0.59 | 11.05 | 655.08 | 1104.69 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 330 | 13.30 | 13.20 | 0.25543 | 2.1 | 0.03899 | 0.03 | 0.59 | 11.05 | 655.08 | 1104.68 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 331 | 13.20 | 13.10 | 0.25538 | 2.1 | 0.03899 | 0.03 | 0.59 | 11.05 | 655.07 | 1104.67 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 332 | 13.10 | 13.00 | 0.25533 | 2.1 | 0.03898 | 0.03 | 0.59 | 11.05 | 655.07 | 1104.67 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 333 | 13.00 | 12.90 | 0.25528 | 2.1 | 0.03897 | 0.03 | 0.59 | 11.05 | 655.06 | 1104.66 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 334 | 12.90 | 12.80 | 0.25523 | 2.1 | 0.03896 | 0.03 | 0.59 | 11.05 | 655.06 | 1104.65 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 335 | 12.80 | 12.70 | 0.25517 | 2.1 | 0.03895 | 0.03 | 0.59 | 11.05 | 655.05 | 1104.64 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 336 | 12.70 | 12.60 | 0.25512 | 2.1 | 0.03895 | 0.03 | 0.59 | 11.05 | 655.05 | 1104.63 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 337 | 12.60 | 12.50 | 0.25507 | 2.1 | 0.03894 | 0.03 | 0.59 | 11.05 | 655.04 | 1104.63 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 338 | 12.50 | 12.40 | 0.25502 | 2.1 | 0.03893 | 0.03 | 0.59 | 11.05 | 655.04 | 1104.62 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 339 | 12.40 | 12.30 | 0.25497 | 2.1 | 0.03892 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.61 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 340 | 12.30 | 12.20 | 0.25491 | 2.1 | 0.03892 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.60 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 341 | 12.20 | 12.10 | 0.25486 | 2.1 | 0.03891 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.60 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 342 | 12.10 | 12.00 | 0.25481 | 2.1 | 0.03890 | 0.03 | 0.59 | 11.05 | 655.02 | 1104.59 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 343 | 12.00 | 11.90 | 0.25476 | 2.1 | 0.03889 | 0.03 | 0.59 | 11.05 | 655.02 | 1104.58 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 344 | 11.90 | 11.80 | 0.25471 | 2.1 | 0.03889 | 0.03 | 0.59 | 11.05 | 655.01 | 1104.57 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 345 | 11.80 | 11.70 | 0.25465 | 2.1 | 0.03888 | 0.03 | 0.59 | 11.05 | 655.01 | 1104.56 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 346 | 11.70 | 11.60 | 0.25460 | 2.1 | 0.03887 | 0.03 | 0.59 | 11.05 | 655.00 | 1104.56 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 347 | 11.60 | 11.50 | 0.25455 | 2.1 | 0.03886 | 0.03 | 0.59 | 11.05 | 655.00 | 1104.55 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 348 | 11.50 | 11.40 | 0.25450 | 2.1 | 0.03886 | 0.03 | 0.59 | 11.05 | 654.99 | 1104.54 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 349 | 11.40 | 11.30 | 0.25445 | 2.1 | 0.03885 | 0.03 | 0.59 | 11.05 | 654.99 | 1104.53 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 350 | 11.30 | 11.20 | 0.25440 | 2.1 | 0.03884 | 0.03 | 0.59 | 11.05 | 654.98 | 1104.53 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 351 | 11.20 | 11.10 | 0.25434 | 2.1 | 0.03883 | 0.03 | 0.59 | 11.05 | 654.98 | 1104.52 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 352 | 11.10 | 11.00 | 0.25429 | 2.1 | 0.03882 | 0.03 | 0.59 | 11.05 | 654.97 | 1104.51 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 353 | 11.00 | 10.90 | 0.25424 | 2.1 | 0.03882 | 0.03 | 0.59 | 11.05 | 654.97 | 1104.50 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 354 | 10.90 | 10.80 | 0.25419 | 2.1 | 0.03881 | 0.03 | 0.59 | 11.04 | 654.97 | 1104.49 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 355 | 10.80 | 10.70 | 0.25414 | 2.1 | 0.03880 | 0.03 | 0.59 | 11.04 | 654.96 | 1104.49 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 356 | 10.70 | 10.60 | 0.25408 | 2.1 | 0.03879 | 0.03 | 0.59 | 11.04 | 654.96 | 1104.48 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 357 | 10.60 | 10.50 | 0.25403 | 2.1 | 0.03879 | 0.03 | 0.59 | 11.04 | 654.95 | 1104.47 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 358 | 10.50 | 10.40 | 0.25398 | 2.1 | 0.03878 | 0.03 | 0.59 | 11.04 | 654.95 | 1104.46 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 359 | 10.40 | 10.30 | 0.25393 | 2.1 | 0.03877 | 0.03 | 0.59 | 11.04 | 654.94 | 1104.46 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 360 | 10.30 | 10.20 | 0.25388 | 2.1 | 0.03876 | 0.03 | 0.59 | 11.04 | 654.94 | 1104.45 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 361 | 10.20 | 10.10 | 0.25382 | 2.1 | 0.03876 | 0.03 | 0.59 | 11.04 | 654.93 | 1104.44 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 362 | 10.10 | 10.00 | 0.25377 | 2.1 | 0.03875 | 0.03 | 0.59 | 11.04 | 654.93 | 1104.43 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 363 | 10.00 | 9.90 | 0.25372 | 2.1 | 0.03874 | 0.03 | 0.59 | 11.04 | 654.92 | 1104.42 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 364 | 9.90 | 9.80 | 0.25367 | 2.1 | 0.03873 | 0.03 | 0.59 | 11.04 | 654.92 | 1104.42 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 365 | 9.80 | 9.70 | 0.25362 | 2.1 | 0.03872 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.41 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 366 | 9.70 | 9.60 | 0.25356 | 2.1 | 0.03872 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.40 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 367 | 9.60 | 9.50 | 0.25351 | 2.1 | 0.03871 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.39 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 368 | 9.50 | 9.40 | 0.25346 | 2.1 | 0.03870 | 0.03 | 0.59 | 11.04 | 654.90 | 1104.39 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 369 | 9.40 | 9.30 | 0.25341 | 2.1 | 0.03869 | 0.03 | 0.59 | 11.04 | 654.90 | 1104.38 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 370 | 9.30 | 9.20 | 0.25336 | 2.1 | 0.03869 | 0.03 | 0.59 | 11.04 | 654.89 | 1104.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 371 | 9.20 | 9.10 | 0.25330 | 2.1 | 0.03868 | 0.03 | 0.59 | 11.04 | 654.89 | 1104.36 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 372 | 9.10 | 9.00 | 0.25325 | 2.1 | 0.03867 | 0.03 | 0.59 | 11.04 | 654.88 | 1104.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 373 | 9.00 | 8.90 | 0.25320 | 2.1 | 0.03866 | 0.03 | 0.59 | 11.04 | 654.88 | 1104.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| TOT | | | | | | 4.49 | | | 99589.90 | 167942.55 | | | | | |
| AVG | | | | | 0.03919 | | 0.59 | 11.05 | | | 6.55 | | | | |
| CUM | | | | | | 5.83 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 22.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 234 | 22.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | 17.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 286 | 17.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337 | 12.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 338 | 12.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.85 | 4.79 | 0.00 | 4.79 | 0.00 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.84 | 4.79 | 0.00 | 4.79 | 0.00 | 0.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.82 | 4.79 | 0.00 | 4.79 | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.81 | 4.80 | 0.00 | 4.80 | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 226 | 23.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.80 | 4.80 | 0.00 | 4.80 | 0.00 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 227 | 23.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.79 | 4.80 | 0.00 | 4.80 | 0.00 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.78 | 4.81 | 0.00 | 4.81 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.77 | 4.81 | 0.00 | 4.81 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.77 | 4.81 | 0.00 | 4.81 | 0.00 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.76 | 4.82 | 0.00 | 4.82 | 0.00 | 0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.75 | 4.82 | 0.00 | 4.82 | 0.00 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.74 | 4.83 | 0.00 | 4.83 | 0.00 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.73 | 4.83 | 0.00 | 4.83 | 0.00 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.73 | 4.83 | 0.00 | 4.83 | 0.00 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.72 | 4.84 | 0.00 | 4.84 | 0.00 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.71 | 4.84 | 0.00 | 4.84 | 0.00 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.71 | 4.84 | 0.00 | 4.84 | 0.00 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.69 | 4.84 | 0.00 | 4.84 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.69 | 4.85 | 0.00 | 4.85 | 0.00 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.68 | 4.85 | 0.00 | 4.85 | 0.00 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.68 | 4.85 | 0.00 | 4.85 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.67 | 4.86 | 0.00 | 4.86 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.67 | 4.86 | 0.00 | 4.86 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.66 | 4.86 | 0.00 | 4.86 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.66 | 4.87 | 0.00 | 4.87 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.65 | 4.87 | 0.00 | 4.87 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.65 | 4.87 | 0.00 | 4.87 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.65 | 4.88 | 0.00 | 4.88 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.64 | 4.88 | 0.00 | 4.88 | 0.00 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.64 | 4.88 | 0.00 | 4.88 | 0.00 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.63 | 4.89 | 0.00 | 4.89 | 0.00 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.63 | 4.89 | 0.00 | 4.89 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.63 | 4.89 | 0.00 | 4.89 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.62 | 4.90 | 0.00 | 4.90 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.62 | 4.90 | 0.00 | 4.90 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.62 | 4.90 | 0.00 | 4.90 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.61 | 4.91 | 0.00 | 4.91 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.61 | 4.91 | 0.00 | 4.91 | 0.00 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.61 | 4.91 | 0.00 | 4.91 | 0.00 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.61 | 4.92 | 0.00 | 4.92 | 0.00 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 4.92 | 0.00 | 4.92 | 0.00 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 4.92 | 0.00 | 4.92 | 0.00 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 4.92 | 0.00 | 4.92 | 0.00 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 4.93 | 0.00 | 4.93 | 0.00 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 4.93 | 0.00 | 4.93 | 0.00 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 4.93 | 0.00 | 4.93 | 0.00 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 4.94 | 0.00 | 4.94 | 0.00 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 4.94 | 0.00 | 4.94 | 0.00 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 4.94 | 0.00 | 4.94 | 0.00 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 4.95 | 0.00 | 4.95 | 0.00 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 4.95 | 0.00 | 4.95 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 4.95 | 0.00 | 4.95 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 4.95 | 0.00 | 4.95 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 4.96 | 0.00 | 4.96 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.96 | 0.00 | 4.96 | 0.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.96 | 0.00 | 4.96 | 0.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 278 | 18.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.97 | 0.00 | 4.97 | 0.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 279 | 18.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.97 | 0.00 | 4.97 | 0.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.97 | 0.00 | 4.97 | 0.00 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.98 | 0.00 | 4.98 | 0.00 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 4.98 | 0.00 | 4.98 | 0.00 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 4.98 | 0.00 | 4.98 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 4.98 | 0.00 | 4.98 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 4.99 | 0.00 | 4.99 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 4.99 | 0.00 | 4.99 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 4.99 | 0.00 | 4.99 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 5.00 | 0.00 | 5.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 5.00 | 0.00 | 5.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.00 | 0.00 | 5.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.00 | 0.00 | 5.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.01 | 0.00 | 5.01 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.01 | 0.00 | 5.01 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.01 | 0.00 | 5.01 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.01 | 0.00 | 5.01 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.02 | 0.00 | 5.02 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.02 | 0.00 | 5.02 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.02 | 0.00 | 5.02 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.03 | 0.00 | 5.03 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.03 | 0.00 | 5.03 | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.03 | 0.00 | 5.03 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.03 | 0.00 | 5.03 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.04 | 0.00 | 5.04 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.04 | 0.00 | 5.04 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.04 | 0.00 | 5.04 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.04 | 0.00 | 5.04 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.05 | 0.00 | 5.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.05 | 0.00 | 5.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.05 | 0.00 | 5.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.05 | 0.00 | 5.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.06 | 0.00 | 5.06 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.06 | 0.00 | 5.06 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.06 | 0.00 | 5.06 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.06 | 0.00 | 5.06 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.07 | 0.00 | 5.07 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.07 | 0.00 | 5.07 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.07 | 0.00 | 5.07 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.07 | 0.00 | 5.07 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.08 | 0.00 | 5.08 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.08 | 0.00 | 5.08 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.08 | 0.00 | 5.08 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.08 | 0.00 | 5.08 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.09 | 0.00 | 5.09 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.09 | 0.00 | 5.09 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.09 | 0.00 | 5.09 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.09 | 0.00 | 5.09 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.10 | 0.00 | 5.10 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.10 | 0.00 | 5.10 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.10 | 0.00 | 5.10 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 330 | 13.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.10 | 0.00 | 5.10 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 331 | 13.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.11 | 0.00 | 5.11 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.11 | 0.00 | 5.11 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.11 | 0.00 | 5.11 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.11 | 0.00 | 5.11 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.12 | 0.00 | 5.12 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.12 | 0.00 | 5.12 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.12 | 0.00 | 5.12 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.12 | 0.00 | 5.12 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.12 | 0.00 | 5.12 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.13 | 0.00 | 5.13 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.13 | 0.00 | 5.13 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.13 | 0.00 | 5.13 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.13 | 0.00 | 5.13 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.14 | 0.00 | 5.14 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.14 | 0.00 | 5.14 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.14 | 0.00 | 5.14 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.14 | 0.00 | 5.14 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.14 | 0.00 | 5.14 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.15 | 0.00 | 5.15 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.15 | 0.00 | 5.15 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.15 | 0.00 | 5.15 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.15 | 0.00 | 5.15 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.16 | 0.00 | 5.16 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.16 | 0.00 | 5.16 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.16 | 0.00 | 5.16 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.16 | 0.00 | 5.16 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.16 | 0.00 | 5.16 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.17 | 0.00 | 5.17 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.17 | 0.00 | 5.17 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.17 | 0.00 | 5.17 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.17 | 0.00 | 5.17 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.17 | 0.00 | 5.17 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.18 | 0.00 | 5.18 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.18 | 0.00 | 5.18 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.18 | 0.00 | 5.18 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.18 | 0.00 | 5.18 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.18 | 0.00 | 5.18 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.19 | 0.00 | 5.19 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.19 | 0.00 | 5.19 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.19 | 0.00 | 5.19 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.19 | 0.00 | 5.19 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.19 | 0.00 | 5.19 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.20 | 0.00 | 5.20 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK SUMMER NOLOAD RUN

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

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

| NO. | | | deg C | ppt | MG/L | MG/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µg/L | #/100mL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.25320 | 26.92 | 0.00 | 3.76 | 134.00 | 5.50 | 5.20 | 0.00 | 5.20 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 375 | 8.80 | 8.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 376 | 8.70 | 8.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 377 | 8.60 | 8.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 378 | 8.50 | 8.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 379 | 8.40 | 8.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 380 | 8.30 | 8.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 381 | 8.20 | 8.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 382 | 8.10 | 8.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 383 | 8.00 | 7.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 384 | 7.90 | 7.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 385 | 7.80 | 7.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 386 | 7.70 | 7.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 387 | 7.60 | 7.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 388 | 7.50 | 7.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 389 | 7.40 | 7.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 390 | 7.30 | 7.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 391 | 7.20 | 7.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 392 | 7.10 | 7.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 393 | 7.00 | 6.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 394 | 6.90 | 6.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 395 | 6.80 | 6.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 396 | 6.70 | 6.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 397 | 6.60 | 6.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 398 | 6.50 | 6.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 399 | 6.40 | 6.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 400 | 6.30 | 6.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 401 | 6.20 | 6.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 402 | 6.10 | 6.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 403 | 6.00 | 5.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 404 | 5.90 | 5.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 405 | 5.80 | 5.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 406 | 5.70 | 5.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 407 | 5.60 | 5.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 408 | 5.50 | 5.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 409 | 5.40 | 5.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 410 | 5.30 | 5.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 411 | 5.20 | 5.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 412 | 5.10 | 5.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 413 | 5.00 | 4.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 414 | 4.90 | 4.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 415 | 4.80 | 4.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 416 | 4.70 | 4.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 417 | 4.60 | 4.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 418 | 4.50 | 4.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 419 | 4.40 | 4.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 420 | 4.30 | 4.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 421 | 4.20 | 4.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 422 | 4.10 | 4.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 423 | 4.00 | 3.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 424 | 3.90 | 3.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 425 | 3.80 | 3.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 426 | 3.70 | 3.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 427 | 3.60 | 3.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 428 | 3.50 | 3.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 429 | 3.40 | 3.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 430 | 3.30 | 3.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 431 | 3.20 | 3.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 432 | 3.10 | 3.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 433 | 3.00 | 2.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 434 | 2.90 | 2.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 435 | 2.80 | 2.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 436 | 2.70 | 2.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 437 | 2.60 | 2.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 438 | 2.50 | 2.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 439 | 2.40 | 2.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 440 | 2.30 | 2.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 441 | 2.20 | 2.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 442 | 2.10 | 2.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 443 | 2.00 | 1.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 444 | 1.90 | 1.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 445 | 1.80 | 1.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 446 | 1.70 | 1.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 447 | 1.60 | 1.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 448 | 1.50 | 1.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 449 | 1.40 | 1.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 450 | 1.30 | 1.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 451 | 1.20 | 1.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 452 | 1.10 | 1.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 453 | 1.00 | 0.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 454 | 0.90 | 0.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 455 | 0.80 | 0.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 456 | 0.70 | 0.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 457 | 0.60 | 0.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 458 | 0.50 | 0.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 459 | 0.40 | 0.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 460 | 0.30 | 0.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 461 | 0.20 | 0.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 462 | 0.10 | 0.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| TOT | | | | | | 1.95 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.05291 | | 0.63 | 7.62 | | | 4.79 | | | | |
| CUM | | | | | | 7.78 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | 4.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 418 | 4.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.31 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.51 | 5.20 | 0.00 | 5.20 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.52 | 5.20 | 0.00 | 5.20 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.53 | 5.20 | 0.00 | 5.20 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.54 | 5.21 | 0.00 | 5.21 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.55 | 5.21 | 0.00 | 5.21 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.56 | 5.21 | 0.00 | 5.21 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.57 | 5.22 | 0.00 | 5.22 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.58 | 5.22 | 0.00 | 5.22 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.59 | 5.22 | 0.00 | 5.22 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 5.22 | 0.00 | 5.22 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.60 | 5.23 | 0.00 | 5.23 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.61 | 5.23 | 0.00 | 5.23 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.62 | 5.23 | 0.00 | 5.23 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 26.92 | 0.01 | 3.76 | 134.00 | 5.63 | 5.23 | 0.00 | 5.23 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 26.92 | 0.01 | 3.76 | 134.00 | 5.63 | 5.24 | 0.00 | 5.24 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 26.92 | 0.01 | 3.76 | 134.00 | 5.64 | 5.24 | 0.00 | 5.24 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 26.92 | 0.01 | 3.76 | 134.00 | 5.65 | 5.24 | 0.00 | 5.24 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 26.92 | 0.01 | 3.76 | 134.00 | 5.65 | 5.24 | 0.00 | 5.24 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 26.92 | 0.01 | 3.76 | 134.00 | 5.66 | 5.25 | 0.00 | 5.25 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 26.92 | 0.01 | 3.76 | 134.00 | 5.67 | 5.25 | 0.00 | 5.25 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 26.92 | 0.01 | 3.76 | 134.00 | 5.67 | 5.25 | 0.00 | 5.25 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.68 | 5.25 | 0.00 | 5.25 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.68 | 5.26 | 0.00 | 5.26 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 26.92 | 0.01 | 3.76 | 134.00 | 5.69 | 5.26 | 0.00 | 5.26 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 26.92 | 0.01 | 3.76 | 134.00 | 5.69 | 5.26 | 0.00 | 5.26 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 26.92 | 0.01 | 3.76 | 134.00 | 5.70 | 5.26 | 0.00 | 5.26 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 26.92 | 0.01 | 3.76 | 134.00 | 5.70 | 5.27 | 0.00 | 5.27 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 26.92 | 0.01 | 3.76 | 134.00 | 5.71 | 5.27 | 0.00 | 5.27 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 26.92 | 0.01 | 3.76 | 134.00 | 5.71 | 5.27 | 0.00 | 5.27 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 26.92 | 0.01 | 3.76 | 134.00 | 5.71 | 5.27 | 0.00 | 5.27 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 26.92 | 0.01 | 3.76 | 134.00 | 5.72 | 5.28 | 0.00 | 5.28 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.72 | 5.28 | 0.00 | 5.28 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.73 | 5.28 | 0.00 | 5.28 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.73 | 5.28 | 0.00 | 5.28 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.73 | 5.29 | 0.00 | 5.29 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 26.92 | 0.02 | 3.76 | 134.00 | 5.74 | 5.29 | 0.00 | 5.29 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 26.92 | 0.02 | 3.76 | 134.00 | 5.74 | 5.29 | 0.00 | 5.29 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 26.92 | 0.02 | 3.76 | 134.00 | 5.74 | 5.29 | 0.00 | 5.29 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 26.92 | 0.02 | 3.76 | 134.00 | 5.75 | 5.29 | 0.00 | 5.29 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 26.92 | 0.02 | 3.76 | 134.00 | 5.75 | 5.30 | 0.00 | 5.30 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 26.92 | 0.02 | 3.76 | 134.00 | 5.75 | 5.30 | 0.00 | 5.30 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 26.92 | 0.02 | 3.76 | 134.00 | 5.76 | 5.30 | 0.00 | 5.30 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 26.92 | 0.02 | 3.76 | 134.00 | 5.76 | 5.30 | 0.00 | 5.30 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.76 | 5.31 | 0.00 | 5.31 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.76 | 5.31 | 0.00 | 5.31 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 26.92 | 0.02 | 3.76 | 134.00 | 5.77 | 5.31 | 0.00 | 5.31 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 26.92 | 0.02 | 3.76 | 134.00 | 5.77 | 5.31 | 0.00 | 5.31 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 421 | 4.100 | 26.92 | 0.02 | 3.76 | 134.00 | 5.77 | 5.32 | 0.00 | 5.32 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 422 | 4.000 | 26.92 | 0.02 | 3.76 | 134.00 | 5.77 | 5.32 | 0.00 | 5.32 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 26.92 | 0.02 | 3.76 | 134.00 | 5.78 | 5.32 | 0.00 | 5.32 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 26.92 | 0.02 | 3.76 | 134.00 | 5.78 | 5.32 | 0.00 | 5.32 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 26.92 | 0.02 | 3.76 | 134.00 | 5.78 | 5.32 | 0.00 | 5.32 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 26.92 | 0.02 | 3.76 | 134.00 | 5.78 | 5.33 | 0.00 | 5.33 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.78 | 5.33 | 0.00 | 5.33 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.79 | 5.33 | 0.00 | 5.33 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.79 | 5.33 | 0.00 | 5.33 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.79 | 5.33 | 0.00 | 5.33 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 26.92 | 0.03 | 3.76 | 134.00 | 5.79 | 5.34 | 0.00 | 5.34 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 26.92 | 0.03 | 3.76 | 134.00 | 5.79 | 5.34 | 0.00 | 5.34 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 26.92 | 0.03 | 3.76 | 134.00 | 5.79 | 5.34 | 0.00 | 5.34 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.34 | 0.00 | 5.34 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.35 | 0.00 | 5.35 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.35 | 0.00 | 5.35 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.35 | 0.00 | 5.35 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.35 | 0.00 | 5.35 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.35 | 0.00 | 5.35 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.36 | 0.00 | 5.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 26.92 | 0.03 | 3.76 | 134.00 | 5.80 | 5.36 | 0.00 | 5.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.36 | 0.00 | 5.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.36 | 0.00 | 5.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.36 | 0.00 | 5.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.37 | 0.00 | 5.37 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.37 | 0.00 | 5.37 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.37 | 0.00 | 5.37 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.37 | 0.00 | 5.37 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.37 | 0.00 | 5.37 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.81 | 5.38 | 0.00 | 5.38 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 26.92 | 0.04 | 3.76 | 134.00 | 5.81 | 5.38 | 0.00 | 5.38 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 26.92 | 0.04 | 3.76 | 134.00 | 5.81 | 5.38 | 0.00 | 5.38 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.38 | 0.00 | 5.38 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.38 | 0.00 | 5.38 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.39 | 0.00 | 5.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.40 | 0.00 | 5.40 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 26.92 | 0.04 | 3.76 | 134.00 | 5.82 | 5.40 | 0.00 | 5.40 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

```
STREAM SUMMARY                                          IATT CREEK WATERSHED MODEL
HEADWATER                                               IATT CREEK SUMMER NOLOAD RUN

 TRAVEL TIME       =           7.78 DAYS

 MAXIMUM EFFLUENT  =           2.15 PERCENT

 FLOW              =   0.19260 TO    0.26016   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
```

```
 VELOCITY          =   0.03866 TO    3.07823   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   11.05      m

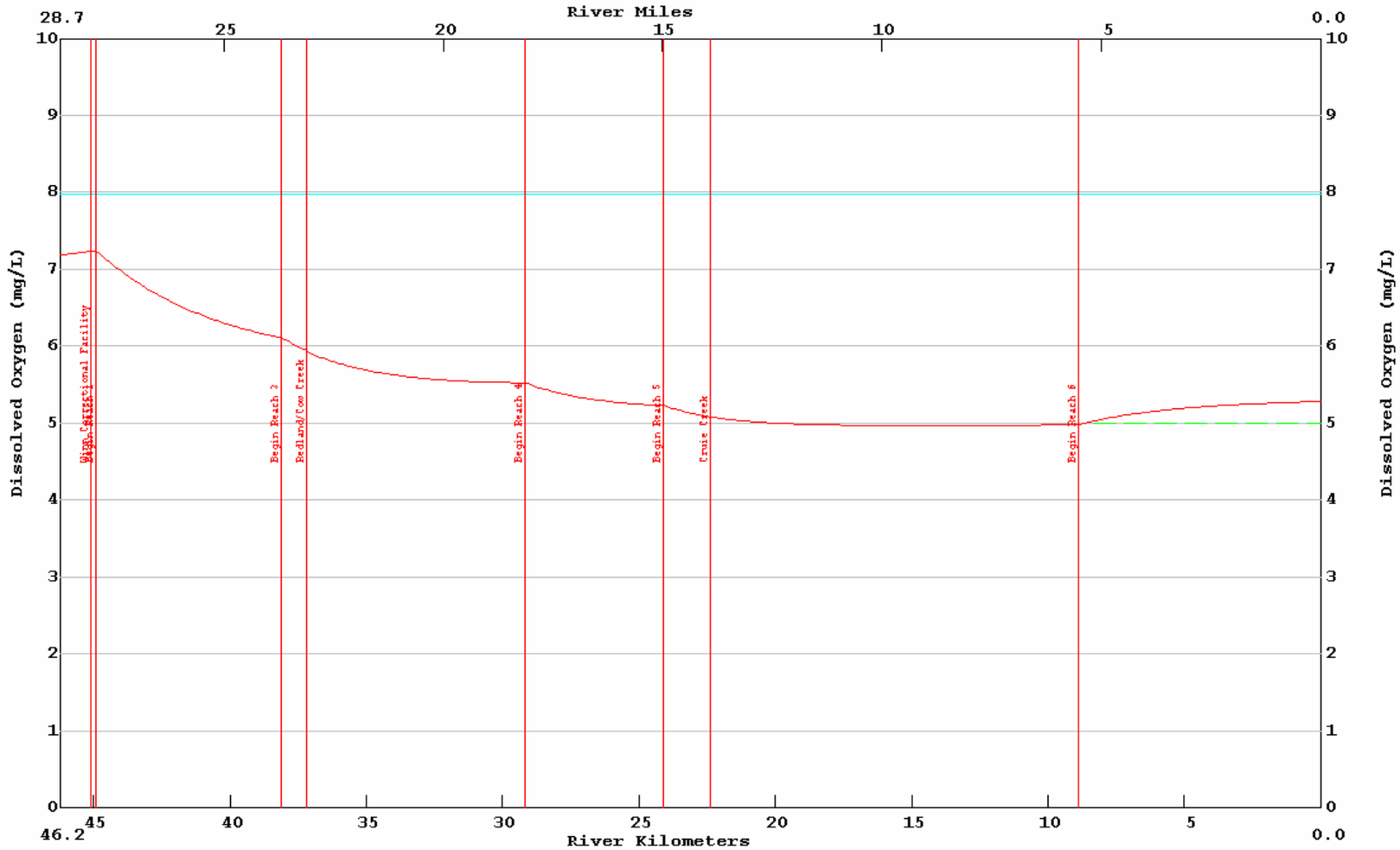
 BOD DECAY         =    0.06   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.77   TO    3.09      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.44   TO   28.48      per day
 BOD SETTLING      =    0.06   TO    0.24      per day
 NBOD DECAY        =    0.08   TO    0.14      per day
 NBOD SETTLING     =    0.24   TO    0.35      per day

 TEMPERATURE       =   26.92   TO   26.92      deg C
 DISSOLVED OXYGEN  =    5.50   TO    7.22      mg/L


     .....EXECUTION COMPLETED
```

Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

LA-QUAL Version 8.00 Run at 12:57 on 01/06/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE min= 4.97 max= 7.24
MAINSTEM



## Iatt Creek 101303 Summer No Load No Point Source Input Data Set

```
CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
```

```
REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------******-------******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    26.92          5.00                          38.00
INITIAL     2    26.92          5.00                           7.00
INITIAL     3    26.92          5.00
INITIAL     4    26.92          5.00                           0.00
INITIAL     5    26.92          5.00
INITIAL     6    26.92          5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
```

```
!                REA    KL                     BOD 1  BOD 1                BOD 2    BOD 2
!          R#    EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                     0.31 0.0405 0.20
COEF-1      2  11.00                     2.04 0.0555 0.20
COEF-1      3  11.00                     1.67 0.0640 0.15
COEF-1      4  11.00                     1.47 0.0669 0.15
COEF-1      5  11.00                     1.28 0.0646 0.05
COEF-1      6  11.00                     1.26 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  26.920              0         0
INCR-1      2     0.0000  0.0187  26.920              0         0
INCR-1      3     0.0000  0.0442  26.920              0        50
INCR-1      4     0.0000  0.0000  26.920              0        50
INCR-1      5    -0.0079  0.0000  26.920              0        50
INCR-1      6     0.0000  0.0000  26.920              0        50
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     35.0     4.0
NONPOINT    4     29.0     8.0
NONPOINT    5    112.0    48.0
NONPOINT    6     59.0    17.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.1954   26.92  0.07     4.8     167.10
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.18    15.93    0.92
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0000    26.92     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0028    26.92     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0028    26.92     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.52         0.67
WSTLD-2   239      5.00    6.94         2.03
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
WSTLD-3    91
```

```
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  26.92
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************* ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Summer No Load No Point Source Output Data Set

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files\Iattsum60nopointsource.txt
Output produced at 12:57 on 01/06/2006

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       26.92      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       26.92      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.310     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.040     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.670     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.470     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.280     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.260     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE      DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000       0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000       0.000     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

ENDATA14

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

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

ENDATA15
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$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

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

INCR-1           1   IC      -0.00280     0.00000     26.92      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     26.92      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     26.92      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.92      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       35.00      4.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       29.00      8.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC      112.00     48.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       59.00     17.00      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
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                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   26.92     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   7.18     15.93      0.92      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00000    0.00000    0.000   26.92     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.00280    0.09887    0.064   26.92     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.00280    0.09887    0.064   26.92     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.52      0.00      0.67      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      6.94      0.00      2.03      0.00      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
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WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     26.920     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovlproj.txt                :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
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     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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FINAL REPORT HEADWATER — IATT CREEK WATERSHED MODEL
REACH NO. 1 HEADWATER - SITE 3 — IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.19540 | 26.92 | 0.07 | 4.80 | 167.10 | 7.18 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |

********** 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 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.19475 | 0.0 | 3.07144 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.071 |
| 4 | 45.90 | 45.80 | 0.19454 | 0.0 | 3.06804 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.068 |
| 5 | 45.80 | 45.70 | 0.19432 | 0.0 | 3.06465 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.065 |
| 6 | 45.70 | 45.60 | 0.19411 | 0.0 | 3.06125 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.061 |
| 7 | 45.60 | 45.50 | 0.19389 | 0.0 | 3.05785 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.058 |
| 8 | 45.50 | 45.40 | 0.19368 | 0.0 | 3.05446 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.054 |
| 9 | 45.40 | 45.30 | 0.19346 | 0.0 | 3.05106 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.051 |
| 10 | 45.30 | 45.20 | 0.19325 | 0.0 | 3.04766 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.048 |
| 11 | 45.20 | 45.10 | 0.19303 | 0.0 | 3.04427 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.044 |
| 12 | 45.10 | 45.00 | 0.19282 | 0.0 | 3.04087 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.041 |
| 13 | 45.00 | 44.90 | 0.19260 | 0.0 | 3.03747 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.037 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.0578 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 45.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 45.800 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 45.700 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.48 | 0.48 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 15.93 | 0.00 | 15.93 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 15.92 | 0.00 | 15.92 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 26.92 | 0.00 | 4.80 | 167.10 | 7.20 | 15.92 | 0.00 | 15.92 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 15.92 | 0.00 | 15.92 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 15.92 | 0.00 | 15.92 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.92 | 0.00 | 4.80 | 167.10 | 7.21 | 15.92 | 0.00 | 15.92 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.92 | 0.00 | 4.80 | 167.10 | 7.22 | 15.92 | 0.00 | 15.92 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.92 | 0.00 | 4.80 | 167.10 | 7.22 | 15.91 | 0.00 | 15.91 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.92 | 0.00 | 4.80 | 167.10 | 7.23 | 15.91 | 0.00 | 15.91 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.23 | 15.91 | 0.00 | 15.91 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.24 | 15.91 | 0.00 | 15.91 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 26.92 | 0.00 | 4.80 | 167.10 | 7.24 | 15.91 | 0.00 | 15.91 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.19260 | 26.92 | 0.00 | 4.80 | 167.10 | 7.24 | 15.91 | 0.00 | 15.91 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 26.92 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

| ELEM NO. | BEGIN DIST | ENDING DIST | FLOW | PCT EFF | ADVCTV VELO | TRAVEL TIME | DEPTH | WIDTH | VOLUME | SURFACE AREA | X-SECT AREA | TIDAL PRISM | TIDAL VELO | DISPRSN | MEAN VELO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | km | km | m³/s | | m/s | days | m | m | m³ | m² | m² | m³ | m/s | m²/s | m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.19288 | 0.0 | 0.77535 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.775 |
| 15 | 44.80 | 44.70 | 0.19315 | 0.0 | 0.77645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.776 |
| 16 | 44.70 | 44.60 | 0.19343 | 0.0 | 0.77756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.778 |
| 17 | 44.60 | 44.50 | 0.19370 | 0.0 | 0.77866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.779 |
| 18 | 44.50 | 44.40 | 0.19398 | 0.0 | 0.77977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.780 |
| 19 | 44.40 | 44.30 | 0.19425 | 0.0 | 0.78087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.781 |
| 20 | 44.30 | 44.20 | 0.19453 | 0.0 | 0.78198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.782 |
| 21 | 44.20 | 44.10 | 0.19480 | 0.0 | 0.78308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.783 |
| 22 | 44.10 | 44.00 | 0.19508 | 0.0 | 0.78419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.784 |
| 23 | 44.00 | 43.90 | 0.19535 | 0.0 | 0.78530 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.785 |
| 24 | 43.90 | 43.80 | 0.19563 | 0.0 | 0.78640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.786 |
| 25 | 43.80 | 43.70 | 0.19590 | 0.0 | 0.78751 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.788 |
| 26 | 43.70 | 43.60 | 0.19618 | 0.0 | 0.78861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.789 |
| 27 | 43.60 | 43.50 | 0.19645 | 0.0 | 0.78972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.790 |
| 28 | 43.50 | 43.40 | 0.19673 | 0.0 | 0.79082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.791 |
| 29 | 43.40 | 43.30 | 0.19700 | 0.0 | 0.79193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.792 |
| 30 | 43.30 | 43.20 | 0.19728 | 0.0 | 0.79303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.793 |
| 31 | 43.20 | 43.10 | 0.19755 | 0.0 | 0.79414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.794 |
| 32 | 43.10 | 43.00 | 0.19783 | 0.0 | 0.79524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.795 |
| 33 | 43.00 | 42.90 | 0.19810 | 0.0 | 0.79635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.796 |
| 34 | 42.90 | 42.80 | 0.19838 | 0.0 | 0.79746 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.797 |
| 35 | 42.80 | 42.70 | 0.19865 | 0.0 | 0.79856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.799 |
| 36 | 42.70 | 42.60 | 0.19893 | 0.0 | 0.79967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.800 |
| 37 | 42.60 | 42.50 | 0.19920 | 0.0 | 0.80077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.801 |
| 38 | 42.50 | 42.40 | 0.19948 | 0.0 | 0.80188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.802 |
| 39 | 42.40 | 42.30 | 0.19975 | 0.0 | 0.80298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.803 |
| 40 | 42.30 | 42.20 | 0.20003 | 0.0 | 0.80409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.804 |
| 41 | 42.20 | 42.10 | 0.20030 | 0.0 | 0.80519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.805 |
| 42 | 42.10 | 42.00 | 0.20058 | 0.0 | 0.80630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.806 |
| 43 | 42.00 | 41.90 | 0.20085 | 0.0 | 0.80741 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.807 |
| 44 | 41.90 | 41.80 | 0.20113 | 0.0 | 0.80851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 45 | 41.80 | 41.70 | 0.20140 | 0.0 | 0.80962 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 46 | 41.70 | 41.60 | 0.20168 | 0.0 | 0.81072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 47 | 41.60 | 41.50 | 0.20195 | 0.0 | 0.81183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 48 | 41.50 | 41.40 | 0.20223 | 0.0 | 0.81293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 49 | 41.40 | 41.30 | 0.20250 | 0.0 | 0.81404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 50 | 41.30 | 41.20 | 0.20278 | 0.0 | 0.81514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 51 | 41.20 | 41.10 | 0.20305 | 0.0 | 0.81625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 52 | 41.10 | 41.00 | 0.20333 | 0.0 | 0.81735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.817 |
| 53 | 41.00 | 40.90 | 0.20360 | 0.0 | 0.81846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 54 | 40.90 | 40.80 | 0.20388 | 0.0 | 0.81957 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 55 | 40.80 | 40.70 | 0.20415 | 0.0 | 0.82067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 56 | 40.70 | 40.60 | 0.20443 | 0.0 | 0.82178 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 57 | 40.60 | 40.50 | 0.20470 | 0.0 | 0.82288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 58 | 40.50 | 40.40 | 0.20498 | 0.0 | 0.82399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 59 | 40.40 | 40.30 | 0.20525 | 0.0 | 0.82509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 60 | 40.30 | 40.20 | 0.20553 | 0.0 | 0.82620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |
| 61 | 40.20 | 40.10 | 0.20580 | 0.0 | 0.82730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.827 |
| 62 | 40.10 | 40.00 | 0.20608 | 0.0 | 0.82841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |
| 63 | 40.00 | 39.90 | 0.20635 | 0.0 | 0.82951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | 39.90 | 39.80 | 0.20663 | 0.0 | 0.83062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 65 | 39.80 | 39.70 | 0.20690 | 0.0 | 0.83173 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 66 | 39.70 | 39.60 | 0.20718 | 0.0 | 0.83283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 67 | 39.60 | 39.50 | 0.20745 | 0.0 | 0.83394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 68 | 39.50 | 39.40 | 0.20773 | 0.0 | 0.83504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 69 | 39.40 | 39.30 | 0.20800 | 0.0 | 0.83615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 70 | 39.30 | 39.20 | 0.20828 | 0.0 | 0.83725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 71 | 39.20 | 39.10 | 0.20855 | 0.0 | 0.83836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.838 |
| 72 | 39.10 | 39.00 | 0.20883 | 0.0 | 0.83946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 73 | 39.00 | 38.90 | 0.20910 | 0.0 | 0.84057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 74 | 38.90 | 38.80 | 0.20938 | 0.0 | 0.84168 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 75 | 38.80 | 38.70 | 0.20965 | 0.0 | 0.84278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 76 | 38.70 | 38.60 | 0.20993 | 0.0 | 0.84389 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 77 | 38.60 | 38.50 | 0.21020 | 0.0 | 0.84499 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 78 | 38.50 | 38.40 | 0.21048 | 0.0 | 0.84610 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 79 | 38.40 | 38.30 | 0.21075 | 0.0 | 0.84720 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 80 | 38.30 | 38.20 | 0.21103 | 0.0 | 0.84831 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.848 |
| 81 | 38.20 | 38.10 | 0.21130 | 0.0 | 0.84941 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| TOT | | | | | | 0.10 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.8118 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 0.10 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 7.98 | 13.60 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 7.98 | 13.61 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 7.98 | 13.62 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 7.98 | 13.62 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 7.98 | 13.63 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 7.98 | 13.63 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 7.98 | 13.64 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 7.98 | 13.64 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 7.98 | 13.65 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 7.98 | 13.65 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 7.98 | 13.66 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 7.98 | 13.66 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 7.98 | 13.67 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 7.98 | 13.67 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 7.98 | 13.68 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 7.98 | 13.68 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 7.98 | 13.69 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 7.98 | 13.69 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 7.98 | 13.70 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 7.98 | 13.70 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 42.800 | 7.98 | 13.71 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 42.700 | 7.98 | 13.71 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | 42.600 | 7.98 | 13.72 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 7.98 | 13.73 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 7.98 | 13.73 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 7.98 | 13.74 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 7.98 | 13.74 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 7.98 | 13.75 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 7.98 | 13.75 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 3.15 | 3.15 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.09 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 26.92 | 0.00 | 4.79 | 166.86 | 7.21 | 15.88 | 0.00 | 15.88 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 26.92 | 0.00 | 4.79 | 166.62 | 7.18 | 15.85 | 0.00 | 15.85 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 26.92 | 0.00 | 4.78 | 166.39 | 7.15 | 15.82 | 0.00 | 15.82 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 26.92 | 0.00 | 4.77 | 166.15 | 7.12 | 15.79 | 0.00 | 15.79 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 26.92 | 0.00 | 4.77 | 165.92 | 7.09 | 15.76 | 0.00 | 15.76 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 26.92 | 0.00 | 4.76 | 165.68 | 7.06 | 15.73 | 0.00 | 15.73 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 26.92 | 0.00 | 4.75 | 165.45 | 7.03 | 15.70 | 0.00 | 15.70 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 26.92 | 0.00 | 4.75 | 165.21 | 7.00 | 15.67 | 0.00 | 15.67 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 26.92 | 0.00 | 4.74 | 164.98 | 6.97 | 15.64 | 0.00 | 15.64 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 26.92 | 0.00 | 4.73 | 164.75 | 6.95 | 15.61 | 0.00 | 15.61 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 26.92 | 0.00 | 4.73 | 164.52 | 6.92 | 15.58 | 0.00 | 15.58 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 26.92 | 0.00 | 4.72 | 164.29 | 6.90 | 15.55 | 0.00 | 15.55 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 26.92 | 0.00 | 4.71 | 164.05 | 6.87 | 15.52 | 0.00 | 15.52 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 26.92 | 0.00 | 4.71 | 163.83 | 6.85 | 15.50 | 0.00 | 15.50 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 26.92 | 0.00 | 4.70 | 163.60 | 6.83 | 15.47 | 0.00 | 15.47 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 26.92 | 0.00 | 4.69 | 163.37 | 6.80 | 15.44 | 0.00 | 15.44 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 26.92 | 0.00 | 4.69 | 163.14 | 6.78 | 15.41 | 0.00 | 15.41 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 26.92 | 0.00 | 4.68 | 162.91 | 6.76 | 15.38 | 0.00 | 15.38 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 26.92 | 0.00 | 4.67 | 162.69 | 6.74 | 15.35 | 0.00 | 15.35 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 26.92 | 0.00 | 4.67 | 162.46 | 6.72 | 15.32 | 0.00 | 15.32 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 26.92 | 0.00 | 4.66 | 162.24 | 6.70 | 15.30 | 0.00 | 15.30 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 26.92 | 0.00 | 4.65 | 162.01 | 6.68 | 15.27 | 0.00 | 15.27 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 26.92 | 0.00 | 4.65 | 161.79 | 6.66 | 15.24 | 0.00 | 15.24 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 26.92 | 0.00 | 4.64 | 161.56 | 6.64 | 15.21 | 0.00 | 15.21 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 26.92 | 0.00 | 4.63 | 161.34 | 6.62 | 15.18 | 0.00 | 15.18 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 26.92 | 0.00 | 4.63 | 161.12 | 6.60 | 15.16 | 0.00 | 15.16 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 26.92 | 0.00 | 4.62 | 160.90 | 6.58 | 15.13 | 0.00 | 15.13 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 26.92 | 0.00 | 4.62 | 160.68 | 6.56 | 15.10 | 0.00 | 15.10 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 26.92 | 0.00 | 4.61 | 160.46 | 6.55 | 15.07 | 0.00 | 15.07 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 26.92 | 0.00 | 4.60 | 160.24 | 6.53 | 15.05 | 0.00 | 15.05 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 26.92 | 0.00 | 4.60 | 160.02 | 6.51 | 15.02 | 0.00 | 15.02 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 26.92 | 0.00 | 4.59 | 159.80 | 6.50 | 14.99 | 0.00 | 14.99 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 26.92 | 0.00 | 4.58 | 159.58 | 6.48 | 14.96 | 0.00 | 14.96 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 26.92 | 0.00 | 4.58 | 159.36 | 6.47 | 14.94 | 0.00 | 14.94 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 26.92 | 0.00 | 4.57 | 159.15 | 6.45 | 14.91 | 0.00 | 14.91 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 26.92 | 0.00 | 4.57 | 158.93 | 6.44 | 14.88 | 0.00 | 14.88 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 26.92 | 0.00 | 4.56 | 158.72 | 6.42 | 14.86 | 0.00 | 14.86 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 26.92 | 0.00 | 4.55 | 158.50 | 6.41 | 14.83 | 0.00 | 14.83 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 26.92 | 0.00 | 4.55 | 158.29 | 6.40 | 14.80 | 0.00 | 14.80 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 26.92 | 0.00 | 4.54 | 158.07 | 6.38 | 14.78 | 0.00 | 14.78 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 26.92 | 0.00 | 4.53 | 157.86 | 6.37 | 14.75 | 0.00 | 14.75 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 26.92 | 0.00 | 4.53 | 157.65 | 6.36 | 14.72 | 0.00 | 14.72 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 26.92 | 0.00 | 4.52 | 157.43 | 6.34 | 14.70 | 0.00 | 14.70 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 26.92 | 0.00 | 4.52 | 157.22 | 6.33 | 14.67 | 0.00 | 14.67 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 26.92 | 0.00 | 4.51 | 157.01 | 6.32 | 14.65 | 0.00 | 14.65 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |
| 59 | 40.300 | 26.92 | 0.00 | 4.50 | 156.80 | 6.31 | 14.62 | 0.00 | 14.62 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |
| 60 | 40.200 | 26.92 | 0.00 | 4.50 | 156.59 | 6.30 | 14.59 | 0.00 | 14.59 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | 40.100 | 26.92 | 0.00 | 4.49 | 156.38 | 6.29 | 14.57 | 0.00 | 14.57 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 26.92 | 0.00 | 4.49 | 156.17 | 6.27 | 14.54 | 0.00 | 14.54 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 26.92 | 0.00 | 4.48 | 155.97 | 6.26 | 14.52 | 0.00 | 14.52 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 26.92 | 0.00 | 4.47 | 155.76 | 6.25 | 14.49 | 0.00 | 14.49 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 26.92 | 0.00 | 4.47 | 155.55 | 6.24 | 14.47 | 0.00 | 14.47 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 26.92 | 0.00 | 4.46 | 155.34 | 6.23 | 14.44 | 0.00 | 14.44 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 26.92 | 0.00 | 4.46 | 155.14 | 6.22 | 14.41 | 0.00 | 14.41 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 26.92 | 0.00 | 4.45 | 154.93 | 6.21 | 14.39 | 0.00 | 14.39 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 26.92 | 0.00 | 4.44 | 154.73 | 6.20 | 14.36 | 0.00 | 14.36 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 26.92 | 0.00 | 4.44 | 154.52 | 6.20 | 14.34 | 0.00 | 14.34 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 26.92 | 0.00 | 4.43 | 154.32 | 6.19 | 14.31 | 0.00 | 14.31 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 26.92 | 0.00 | 4.43 | 154.12 | 6.18 | 14.29 | 0.00 | 14.29 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 26.92 | 0.00 | 4.42 | 153.91 | 6.17 | 14.26 | 0.00 | 14.26 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 26.92 | 0.00 | 4.42 | 153.71 | 6.16 | 14.24 | 0.00 | 14.24 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 26.92 | 0.00 | 4.41 | 153.51 | 6.15 | 14.21 | 0.00 | 14.21 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 26.92 | 0.00 | 4.40 | 153.31 | 6.14 | 14.19 | 0.00 | 14.19 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 26.92 | 0.00 | 4.40 | 153.11 | 6.14 | 14.17 | 0.00 | 14.17 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 26.92 | 0.00 | 4.39 | 152.91 | 6.13 | 14.14 | 0.00 | 14.14 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 26.92 | 0.00 | 4.39 | 152.71 | 6.12 | 14.12 | 0.00 | 14.12 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 26.92 | 0.00 | 4.38 | 152.51 | 6.11 | 14.09 | 0.00 | 14.09 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 26.92 | 0.00 | 4.38 | 152.31 | 6.11 | 14.07 | 0.00 | 14.07 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21130 | 26.92 | 0.00 | 4.38 | 152.31 | 6.11 | 14.07 | 0.00 | 14.07 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 26.92 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.00280 | 26.92 | 0.03 | 8.60 | 89.10 | 5.00 | 5.52 | 0.00 | 5.52 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.21180 | 0.0 | 0.21542 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.215 |
| 83 | 38.00 | 37.90 | 0.21229 | 0.0 | 0.21593 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.216 |
| 84 | 37.90 | 37.80 | 0.21279 | 0.0 | 0.21644 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.216 |
| 85 | 37.80 | 37.70 | 0.21329 | 0.0 | 0.21694 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.217 |
| 86 | 37.70 | 37.60 | 0.21378 | 0.0 | 0.21745 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.217 |
| 87 | 37.60 | 37.50 | 0.21428 | 0.0 | 0.21795 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.218 |
| 88 | 37.50 | 37.40 | 0.21478 | 0.0 | 0.21846 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.218 |
| 89 | 37.40 | 37.30 | 0.21527 | 0.0 | 0.21896 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.219 |
| 90 | 37.30 | 37.20 | 0.21577 | 0.0 | 0.21947 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.219 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | 37.20 | 37.10 | 0.21907 | 1.3 | 0.22282 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.223 |
| 92 | 37.10 | 37.00 | 0.21956 | 1.3 | 0.22332 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.223 |
| 93 | 37.00 | 36.90 | 0.22006 | 1.3 | 0.22383 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 94 | 36.90 | 36.80 | 0.22056 | 1.3 | 0.22433 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 95 | 36.80 | 36.70 | 0.22105 | 1.3 | 0.22484 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 96 | 36.70 | 36.60 | 0.22155 | 1.3 | 0.22534 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 97 | 36.60 | 36.50 | 0.22205 | 1.3 | 0.22585 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 98 | 36.50 | 36.40 | 0.22254 | 1.3 | 0.22636 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 99 | 36.40 | 36.30 | 0.22304 | 1.3 | 0.22686 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 100 | 36.30 | 36.20 | 0.22354 | 1.3 | 0.22737 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 101 | 36.20 | 36.10 | 0.22403 | 1.2 | 0.22787 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 102 | 36.10 | 36.00 | 0.22453 | 1.2 | 0.22838 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 103 | 36.00 | 35.90 | 0.22503 | 1.2 | 0.22888 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.229 |
| 104 | 35.90 | 35.80 | 0.22552 | 1.2 | 0.22939 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.229 |
| 105 | 35.80 | 35.70 | 0.22602 | 1.2 | 0.22989 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.230 |
| 106 | 35.70 | 35.60 | 0.22652 | 1.2 | 0.23040 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.230 |
| 107 | 35.60 | 35.50 | 0.22701 | 1.2 | 0.23090 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 108 | 35.50 | 35.40 | 0.22751 | 1.2 | 0.23141 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 109 | 35.40 | 35.30 | 0.22801 | 1.2 | 0.23191 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 110 | 35.30 | 35.20 | 0.22850 | 1.2 | 0.23242 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 111 | 35.20 | 35.10 | 0.22900 | 1.2 | 0.23292 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 112 | 35.10 | 35.00 | 0.22950 | 1.2 | 0.23343 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 113 | 35.00 | 34.90 | 0.22999 | 1.2 | 0.23393 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 114 | 34.90 | 34.80 | 0.23049 | 1.2 | 0.23444 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 115 | 34.80 | 34.70 | 0.23099 | 1.2 | 0.23494 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 116 | 34.70 | 34.60 | 0.23148 | 1.2 | 0.23545 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 117 | 34.60 | 34.50 | 0.23198 | 1.2 | 0.23595 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 118 | 34.50 | 34.40 | 0.23248 | 1.2 | 0.23646 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 119 | 34.40 | 34.30 | 0.23297 | 1.2 | 0.23696 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 120 | 34.30 | 34.20 | 0.23347 | 1.2 | 0.23747 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 121 | 34.20 | 34.10 | 0.23397 | 1.2 | 0.23797 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 122 | 34.10 | 34.00 | 0.23446 | 1.2 | 0.23848 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 123 | 34.00 | 33.90 | 0.23496 | 1.2 | 0.23898 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 124 | 33.90 | 33.80 | 0.23546 | 1.2 | 0.23949 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 125 | 33.80 | 33.70 | 0.23595 | 1.2 | 0.23999 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 126 | 33.70 | 33.60 | 0.23645 | 1.2 | 0.24050 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 127 | 33.60 | 33.50 | 0.23694 | 1.2 | 0.24100 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 128 | 33.50 | 33.40 | 0.23744 | 1.2 | 0.24151 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 129 | 33.40 | 33.30 | 0.23794 | 1.2 | 0.24201 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 130 | 33.30 | 33.20 | 0.23843 | 1.2 | 0.24252 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 131 | 33.20 | 33.10 | 0.23893 | 1.2 | 0.24302 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 132 | 33.10 | 33.00 | 0.23943 | 1.2 | 0.24353 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 133 | 33.00 | 32.90 | 0.23992 | 1.2 | 0.24403 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 134 | 32.90 | 32.80 | 0.24042 | 1.2 | 0.24454 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 135 | 32.80 | 32.70 | 0.24092 | 1.2 | 0.24504 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 136 | 32.70 | 32.60 | 0.24141 | 1.2 | 0.24555 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 137 | 32.60 | 32.50 | 0.24191 | 1.2 | 0.24606 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 138 | 32.50 | 32.40 | 0.24241 | 1.2 | 0.24656 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 139 | 32.40 | 32.30 | 0.24290 | 1.2 | 0.24707 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 140 | 32.30 | 32.20 | 0.24340 | 1.2 | 0.24757 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 141 | 32.20 | 32.10 | 0.24390 | 1.1 | 0.24808 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 142 | 32.10 | 32.00 | 0.24439 | 1.1 | 0.24858 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143 | 32.00 | 31.90 | 0.24489 | 1.1 | 0.24909 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 144 | 31.90 | 31.80 | 0.24539 | 1.1 | 0.24959 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 145 | 31.80 | 31.70 | 0.24588 | 1.1 | 0.25010 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 146 | 31.70 | 31.60 | 0.24638 | 1.1 | 0.25060 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 147 | 31.60 | 31.50 | 0.24688 | 1.1 | 0.25111 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 148 | 31.50 | 31.40 | 0.24737 | 1.1 | 0.25161 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 149 | 31.40 | 31.30 | 0.24787 | 1.1 | 0.25212 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 150 | 31.30 | 31.20 | 0.24837 | 1.1 | 0.25262 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 151 | 31.20 | 31.10 | 0.24886 | 1.1 | 0.25313 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 152 | 31.10 | 31.00 | 0.24936 | 1.1 | 0.25363 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 153 | 31.00 | 30.90 | 0.24986 | 1.1 | 0.25414 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 154 | 30.90 | 30.80 | 0.25035 | 1.1 | 0.25464 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 155 | 30.80 | 30.70 | 0.25085 | 1.1 | 0.25515 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 156 | 30.70 | 30.60 | 0.25135 | 1.1 | 0.25565 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 157 | 30.60 | 30.50 | 0.25184 | 1.1 | 0.25616 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 158 | 30.50 | 30.40 | 0.25234 | 1.1 | 0.25666 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 159 | 30.40 | 30.30 | 0.25284 | 1.1 | 0.25717 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 160 | 30.30 | 30.20 | 0.25333 | 1.1 | 0.25767 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 161 | 30.20 | 30.10 | 0.25383 | 1.1 | 0.25818 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 162 | 30.10 | 30.00 | 0.25433 | 1.1 | 0.25868 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 163 | 30.00 | 29.90 | 0.25482 | 1.1 | 0.25919 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 164 | 29.90 | 29.80 | 0.25532 | 1.1 | 0.25969 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 165 | 29.80 | 29.70 | 0.25582 | 1.1 | 0.26020 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 166 | 29.70 | 29.60 | 0.25631 | 1.1 | 0.26070 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 167 | 29.60 | 29.50 | 0.25681 | 1.1 | 0.26121 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 168 | 29.50 | 29.40 | 0.25731 | 1.1 | 0.26171 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 169 | 29.40 | 29.30 | 0.25780 | 1.1 | 0.26222 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 170 | 29.30 | 29.20 | 0.25830 | 1.1 | 0.26272 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| TOT | | | | | | 0.43 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.2395 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.53 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 7.98 | 4.92 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 7.98 | 4.93 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 7.98 | 4.94 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 7.98 | 4.95 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 7.98 | 4.95 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 37.000 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 36.900 | 7.98 | 4.97 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94 | 36.800 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 7.98 | 5.01 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 31.800 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 31.700 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 146 | 31.600 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.58 | 2.58 | 2.58 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.45 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 26.92 | 0.00 | 4.36 | 152.07 | 6.09 | 14.04 | 0.00 | 14.04 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 26.92 | 0.00 | 4.35 | 151.83 | 6.07 | 14.00 | 0.00 | 14.00 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 26.92 | 0.00 | 4.34 | 151.60 | 6.05 | 13.97 | 0.00 | 13.97 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 26.92 | 0.00 | 4.33 | 151.36 | 6.03 | 13.94 | 0.00 | 13.94 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 26.92 | 0.00 | 4.32 | 151.12 | 6.01 | 13.91 | 0.00 | 13.91 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 26.92 | 0.00 | 4.31 | 150.89 | 5.99 | 13.88 | 0.00 | 13.88 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 26.92 | 0.00 | 4.30 | 150.66 | 5.97 | 13.85 | 0.00 | 13.85 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 26.92 | 0.00 | 4.29 | 150.42 | 5.95 | 13.82 | 0.00 | 13.82 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 26.92 | 0.00 | 4.28 | 150.19 | 5.94 | 13.79 | 0.00 | 13.79 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 26.92 | 0.00 | 4.33 | 149.18 | 5.91 | 13.66 | 0.00 | 13.66 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 26.92 | 0.00 | 4.32 | 148.96 | 5.90 | 13.63 | 0.00 | 13.63 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 26.92 | 0.00 | 4.31 | 148.74 | 5.88 | 13.60 | 0.00 | 13.60 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 26.92 | 0.00 | 4.30 | 148.51 | 5.87 | 13.57 | 0.00 | 13.57 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 26.92 | 0.00 | 4.29 | 148.29 | 5.86 | 13.54 | 0.00 | 13.54 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 96 | 36.600 | 26.92 | 0.00 | 4.28 | 148.07 | 5.84 | 13.51 | 0.00 | 13.51 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 97 | 36.500 | 26.92 | 0.00 | 4.27 | 147.85 | 5.83 | 13.49 | 0.00 | 13.49 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | 36.400 | 26.92 | 0.00 | 4.26 | 147.63 | 5.82 | 13.46 | 0.00 | 13.46 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 26.92 | 0.00 | 4.25 | 147.42 | 5.81 | 13.43 | 0.00 | 13.43 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 26.92 | 0.00 | 4.24 | 147.20 | 5.80 | 13.40 | 0.00 | 13.40 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 26.92 | 0.00 | 4.23 | 146.99 | 5.78 | 13.38 | 0.00 | 13.38 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 26.92 | 0.00 | 4.22 | 146.77 | 5.77 | 13.35 | 0.00 | 13.35 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 26.92 | 0.00 | 4.22 | 146.56 | 5.76 | 13.32 | 0.00 | 13.32 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 26.92 | 0.00 | 4.21 | 146.34 | 5.75 | 13.29 | 0.00 | 13.29 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 26.92 | 0.00 | 4.20 | 146.13 | 5.74 | 13.27 | 0.00 | 13.27 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 26.92 | 0.00 | 4.19 | 145.92 | 5.74 | 13.24 | 0.00 | 13.24 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 26.92 | 0.00 | 4.18 | 145.71 | 5.73 | 13.21 | 0.00 | 13.21 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 26.92 | 0.00 | 4.17 | 145.50 | 5.72 | 13.19 | 0.00 | 13.19 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 26.92 | 0.00 | 4.16 | 145.30 | 5.71 | 13.16 | 0.00 | 13.16 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 26.92 | 0.00 | 4.15 | 145.09 | 5.70 | 13.14 | 0.00 | 13.14 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 26.92 | 0.00 | 4.14 | 144.88 | 5.69 | 13.11 | 0.00 | 13.11 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 26.92 | 0.00 | 4.13 | 144.68 | 5.69 | 13.08 | 0.00 | 13.08 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 26.92 | 0.00 | 4.12 | 144.47 | 5.68 | 13.06 | 0.00 | 13.06 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 26.92 | 0.00 | 4.12 | 144.27 | 5.67 | 13.03 | 0.00 | 13.03 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 26.92 | 0.00 | 4.11 | 144.07 | 5.67 | 13.01 | 0.00 | 13.01 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 26.92 | 0.00 | 4.10 | 143.86 | 5.66 | 12.98 | 0.00 | 12.98 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 26.92 | 0.00 | 4.09 | 143.66 | 5.65 | 12.96 | 0.00 | 12.96 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 26.92 | 0.00 | 4.08 | 143.46 | 5.65 | 12.93 | 0.00 | 12.93 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 26.92 | 0.00 | 4.07 | 143.26 | 5.64 | 12.91 | 0.00 | 12.91 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 26.92 | 0.00 | 4.06 | 143.07 | 5.64 | 12.88 | 0.00 | 12.88 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 26.92 | 0.00 | 4.05 | 142.87 | 5.63 | 12.86 | 0.00 | 12.86 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 26.92 | 0.00 | 4.05 | 142.67 | 5.63 | 12.83 | 0.00 | 12.83 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 26.92 | 0.00 | 4.04 | 142.48 | 5.62 | 12.81 | 0.00 | 12.81 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 26.92 | 0.00 | 4.03 | 142.28 | 5.62 | 12.79 | 0.00 | 12.79 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 26.92 | 0.00 | 4.02 | 142.09 | 5.61 | 12.76 | 0.00 | 12.76 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 26.92 | 0.00 | 4.01 | 141.89 | 5.61 | 12.74 | 0.00 | 12.74 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 26.92 | 0.00 | 4.00 | 141.70 | 5.60 | 12.72 | 0.00 | 12.72 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 26.92 | 0.00 | 3.99 | 141.51 | 5.60 | 12.69 | 0.00 | 12.69 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 26.92 | 0.00 | 3.99 | 141.32 | 5.59 | 12.67 | 0.00 | 12.67 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 26.92 | 0.00 | 3.98 | 141.13 | 5.59 | 12.65 | 0.00 | 12.65 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 26.92 | 0.00 | 3.97 | 140.94 | 5.59 | 12.62 | 0.00 | 12.62 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 26.92 | 0.00 | 3.96 | 140.75 | 5.58 | 12.60 | 0.00 | 12.60 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 26.92 | 0.00 | 3.95 | 140.56 | 5.58 | 12.58 | 0.00 | 12.58 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 26.92 | 0.00 | 3.95 | 140.37 | 5.58 | 12.55 | 0.00 | 12.55 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 26.92 | 0.00 | 3.94 | 140.19 | 5.57 | 12.53 | 0.00 | 12.53 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 26.92 | 0.00 | 3.93 | 140.00 | 5.57 | 12.51 | 0.00 | 12.51 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 26.92 | 0.00 | 3.92 | 139.82 | 5.57 | 12.49 | 0.00 | 12.49 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 26.92 | 0.00 | 3.91 | 139.63 | 5.56 | 12.46 | 0.00 | 12.46 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 26.92 | 0.00 | 3.91 | 139.45 | 5.56 | 12.44 | 0.00 | 12.44 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 26.92 | 0.00 | 3.90 | 139.27 | 5.56 | 12.42 | 0.00 | 12.42 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 26.92 | 0.00 | 3.89 | 139.09 | 5.56 | 12.40 | 0.00 | 12.40 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 26.92 | 0.00 | 3.88 | 138.91 | 5.55 | 12.38 | 0.00 | 12.38 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 26.92 | 0.00 | 3.87 | 138.72 | 5.55 | 12.35 | 0.00 | 12.35 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 26.92 | 0.00 | 3.87 | 138.55 | 5.55 | 12.33 | 0.00 | 12.33 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 26.92 | 0.00 | 3.86 | 138.37 | 5.55 | 12.31 | 0.00 | 12.31 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 26.92 | 0.00 | 3.85 | 138.19 | 5.55 | 12.29 | 0.00 | 12.29 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 26.92 | 0.00 | 3.84 | 138.01 | 5.54 | 12.27 | 0.00 | 12.27 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 148 | 31.400 | 26.92 | 0.00 | 3.83 | 137.83 | 5.54 | 12.25 | 0.00 | 12.25 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 149 | 31.300 | 26.92 | 0.00 | 3.83 | 137.66 | 5.54 | 12.23 | 0.00 | 12.23 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 31.200 | 26.92 | 0.00 | 3.82 | 137.48 | 5.54 | 12.20 | 0.00 | 12.20 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 26.92 | 0.00 | 3.81 | 137.31 | 5.54 | 12.18 | 0.00 | 12.18 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 26.92 | 0.00 | 3.80 | 137.13 | 5.54 | 12.16 | 0.00 | 12.16 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 26.92 | 0.00 | 3.80 | 136.96 | 5.54 | 12.14 | 0.00 | 12.14 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 26.92 | 0.00 | 3.79 | 136.79 | 5.53 | 12.12 | 0.00 | 12.12 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 26.92 | 0.00 | 3.78 | 136.62 | 5.53 | 12.10 | 0.00 | 12.10 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 26.92 | 0.00 | 3.77 | 136.45 | 5.53 | 12.08 | 0.00 | 12.08 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 26.92 | 0.00 | 3.77 | 136.28 | 5.53 | 12.06 | 0.00 | 12.06 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 26.92 | 0.00 | 3.76 | 136.11 | 5.53 | 12.04 | 0.00 | 12.04 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 26.92 | 0.00 | 3.75 | 135.94 | 5.53 | 12.02 | 0.00 | 12.02 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 26.92 | 0.00 | 3.74 | 135.77 | 5.53 | 12.00 | 0.00 | 12.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 26.92 | 0.00 | 3.74 | 135.60 | 5.53 | 11.98 | 0.00 | 11.98 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 26.92 | 0.00 | 3.73 | 135.43 | 5.53 | 11.96 | 0.00 | 11.96 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 26.92 | 0.00 | 3.72 | 135.27 | 5.53 | 11.94 | 0.00 | 11.94 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 26.92 | 0.00 | 3.72 | 135.10 | 5.53 | 11.92 | 0.00 | 11.92 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 26.92 | 0.00 | 3.71 | 134.94 | 5.52 | 11.90 | 0.00 | 11.90 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 26.92 | 0.00 | 3.70 | 134.77 | 5.52 | 11.88 | 0.00 | 11.88 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 26.92 | 0.00 | 3.69 | 134.61 | 5.52 | 11.87 | 0.00 | 11.87 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 26.92 | 0.00 | 3.69 | 134.44 | 5.52 | 11.85 | 0.00 | 11.85 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 26.92 | 0.00 | 3.68 | 134.28 | 5.52 | 11.83 | 0.00 | 11.83 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.52 | 11.81 | 0.00 | 11.81 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.25830 | 26.92 | 0.00 | 3.67 | 134.12 | 5.52 | 11.81 | 0.00 | 11.81 | 0.00 | 0.79 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 172 | 29.10 | 29.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 173 | 29.00 | 28.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 174 | 28.90 | 28.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 175 | 28.80 | 28.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 176 | 28.70 | 28.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 177 | 28.60 | 28.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 178 | 28.50 | 28.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 179 | 28.40 | 28.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 180 | 28.30 | 28.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 181 | 28.20 | 28.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 182 | 28.10 | 28.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 183 | 28.00 | 27.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 184 | 27.90 | 27.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 185 | 27.80 | 27.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 186 | 27.70 | 27.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 187 | 27.60 | 27.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 188 | 27.50 | 27.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 189 | 27.40 | 27.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 190 | 27.30 | 27.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 191 | 27.20 | 27.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 192 | 27.10 | 27.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 193 | 27.00 | 26.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 194 | 26.90 | 26.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 195 | 26.80 | 26.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 196 | 26.70 | 26.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 197 | 26.60 | 26.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 198 | 26.50 | 26.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 199 | 26.40 | 26.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 200 | 26.30 | 26.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 201 | 26.20 | 26.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 202 | 26.10 | 26.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 203 | 26.00 | 25.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 204 | 25.90 | 25.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 205 | 25.80 | 25.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 206 | 25.70 | 25.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 207 | 25.60 | 25.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 208 | 25.50 | 25.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 209 | 25.40 | 25.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 210 | 25.30 | 25.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 211 | 25.20 | 25.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 212 | 25.10 | 25.00 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 213 | 25.00 | 24.90 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 214 | 24.90 | 24.80 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 215 | 24.80 | 24.70 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 216 | 24.70 | 24.60 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 217 | 24.60 | 24.50 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 218 | 24.50 | 24.40 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 219 | 24.40 | 24.30 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 220 | 24.30 | 24.20 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| 221 | 24.20 | 24.10 | 0.25830 | 1.1 | 0.07268 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.073 |
| TOT | | | | | | 0.81 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.0727 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.34 | | | | | | | | | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 24.100 | 7.98 | 2.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 2.27 | 2.27 | 2.27 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AVG 20 DEG C RATE 1.96 0.07 0.15 0.00 0.00 0.00 0.00 1.47 0.07 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.51 | 11.78 | 0.00 | 11.78 | 0.00 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.50 | 11.76 | 0.00 | 11.76 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.48 | 11.73 | 0.00 | 11.73 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.47 | 11.71 | 0.00 | 11.71 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.46 | 11.68 | 0.00 | 11.68 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.45 | 11.66 | 0.00 | 11.66 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.44 | 11.64 | 0.00 | 11.64 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.43 | 11.61 | 0.00 | 11.61 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.42 | 11.59 | 0.00 | 11.59 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.41 | 11.56 | 0.00 | 11.56 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.40 | 11.54 | 0.00 | 11.54 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.39 | 11.52 | 0.00 | 11.52 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.39 | 11.49 | 0.00 | 11.49 | 0.00 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.38 | 11.47 | 0.00 | 11.47 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.37 | 11.45 | 0.00 | 11.45 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.36 | 11.42 | 0.00 | 11.42 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.36 | 11.40 | 0.00 | 11.40 | 0.00 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.35 | 11.38 | 0.00 | 11.38 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.34 | 11.35 | 0.00 | 11.35 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.34 | 11.33 | 0.00 | 11.33 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.33 | 11.31 | 0.00 | 11.31 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.32 | 11.28 | 0.00 | 11.28 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.32 | 11.26 | 0.00 | 11.26 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.31 | 11.24 | 0.00 | 11.24 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.31 | 11.22 | 0.00 | 11.22 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.30 | 11.19 | 0.00 | 11.19 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.30 | 11.17 | 0.00 | 11.17 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.29 | 11.15 | 0.00 | 11.15 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.29 | 11.13 | 0.00 | 11.13 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.28 | 11.10 | 0.00 | 11.10 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.28 | 11.08 | 0.00 | 11.08 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.28 | 11.06 | 0.00 | 11.06 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.27 | 11.04 | 0.00 | 11.04 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.27 | 11.02 | 0.00 | 11.02 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.27 | 11.00 | 0.00 | 11.00 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.26 | 10.97 | 0.00 | 10.97 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.26 | 10.95 | 0.00 | 10.95 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.26 | 10.93 | 0.00 | 10.93 | 0.00 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.25 | 10.91 | 0.00 | 10.91 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.25 | 10.89 | 0.00 | 10.89 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 211 | 25.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.25 | 10.87 | 0.00 | 10.87 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 212 | 25.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.25 | 10.85 | 0.00 | 10.85 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 213 | 24.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.24 | 10.83 | 0.00 | 10.83 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.24 | 10.81 | 0.00 | 10.81 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.24 | 10.79 | 0.00 | 10.79 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.24 | 10.76 | 0.00 | 10.76 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.74 | 0.00 | 10.74 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.72 | 0.00 | 10.72 | 0.00 | 0.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.70 | 0.00 | 10.70 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.68 | 0.00 | 10.68 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.66 | 0.00 | 10.66 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.25830 | 26.92 | 0.00 | 3.67 | 134.12 | 5.23 | 10.66 | 0.00 | 10.66 | 0.00 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.00280 | 26.92 | 0.05 | 11.50 | 123.40 | 5.00 | 6.94 | 0.00 | 6.94 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.25825 | 1.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.10 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 223 | 24.00 | 23.90 | 0.25820 | 1.1 | 0.03940 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.09 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 224 | 23.90 | 23.80 | 0.25814 | 1.1 | 0.03939 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 225 | 23.80 | 23.70 | 0.25809 | 1.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 226 | 23.70 | 23.60 | 0.25804 | 1.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 227 | 23.60 | 23.50 | 0.25799 | 1.1 | 0.03937 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.06 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 228 | 23.50 | 23.40 | 0.25794 | 1.1 | 0.03936 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.05 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 229 | 23.40 | 23.30 | 0.25788 | 1.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 230 | 23.30 | 23.20 | 0.25783 | 1.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 231 | 23.20 | 23.10 | 0.25778 | 1.1 | 0.03934 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.03 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 232 | 23.10 | 23.00 | 0.25773 | 1.1 | 0.03933 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.02 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 233 | 23.00 | 22.90 | 0.25768 | 1.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 234 | 22.90 | 22.80 | 0.25762 | 1.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 235 | 22.80 | 22.70 | 0.25757 | 1.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.26 | 1105.00 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 236 | 22.70 | 22.60 | 0.25752 | 1.1 | 0.03930 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.99 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 237 | 22.60 | 22.50 | 0.25747 | 1.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 238 | 22.50 | 22.40 | 0.25742 | 1.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 239 | 22.40 | 22.30 | 0.26016 | 2.1 | 0.03969 | 0.03 | 0.59 | 11.05 | 655.49 | 1105.38 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 240 | 22.30 | 22.20 | 0.26011 | 2.1 | 0.03968 | 0.03 | 0.59 | 11.05 | 655.49 | 1105.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 241 | 22.20 | 22.10 | 0.26006 | 2.1 | 0.03967 | 0.03 | 0.59 | 11.05 | 655.48 | 1105.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 242 | 22.10 | 22.00 | 0.26001 | 2.1 | 0.03967 | 0.03 | 0.59 | 11.05 | 655.48 | 1105.36 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 243 | 22.00 | 21.90 | 0.25996 | 2.1 | 0.03966 | 0.03 | 0.59 | 11.05 | 655.47 | 1105.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 244 | 21.90 | 21.80 | 0.25990 | 2.1 | 0.03965 | 0.03 | 0.59 | 11.05 | 655.47 | 1105.34 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 245 | 21.80 | 21.70 | 0.25985 | 2.1 | 0.03964 | 0.03 | 0.59 | 11.05 | 655.46 | 1105.33 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 246 | 21.70 | 21.60 | 0.25980 | 2.1 | 0.03964 | 0.03 | 0.59 | 11.05 | 655.46 | 1105.33 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 247 | 21.60 | 21.50 | 0.25975 | 2.1 | 0.03963 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.32 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 248 | 21.50 | 21.40 | 0.25970 | 2.1 | 0.03962 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.31 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 249 | 21.40 | 21.30 | 0.25964 | 2.1 | 0.03961 | 0.03 | 0.59 | 11.05 | 655.45 | 1105.30 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 250 | 21.30 | 21.20 | 0.25959 | 2.1 | 0.03961 | 0.03 | 0.59 | 11.05 | 655.44 | 1105.30 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 251 | 21.20 | 21.10 | 0.25954 | 2.1 | 0.03960 | 0.03 | 0.59 | 11.05 | 655.44 | 1105.29 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 252 | 21.10 | 21.00 | 0.25949 | 2.1 | 0.03959 | 0.03 | 0.59 | 11.05 | 655.43 | 1105.28 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 253 | 21.00 | 20.90 | 0.25944 | 2.1 | 0.03958 | 0.03 | 0.59 | 11.05 | 655.43 | 1105.27 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 254 | 20.90 | 20.80 | 0.25938 | 2.1 | 0.03958 | 0.03 | 0.59 | 11.05 | 655.42 | 1105.27 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 255 | 20.80 | 20.70 | 0.25933 | 2.1 | 0.03957 | 0.03 | 0.59 | 11.05 | 655.42 | 1105.26 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 256 | 20.70 | 20.60 | 0.25928 | 2.1 | 0.03956 | 0.03 | 0.59 | 11.05 | 655.41 | 1105.25 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 257 | 20.60 | 20.50 | 0.25923 | 2.1 | 0.03955 | 0.03 | 0.59 | 11.05 | 655.41 | 1105.24 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 258 | 20.50 | 20.40 | 0.25918 | 2.1 | 0.03954 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.24 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 259 | 20.40 | 20.30 | 0.25912 | 2.1 | 0.03954 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.23 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 260 | 20.30 | 20.20 | 0.25907 | 2.1 | 0.03953 | 0.03 | 0.59 | 11.05 | 655.40 | 1105.22 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 261 | 20.20 | 20.10 | 0.25902 | 2.1 | 0.03952 | 0.03 | 0.59 | 11.05 | 655.39 | 1105.21 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 262 | 20.10 | 20.00 | 0.25897 | 2.1 | 0.03951 | 0.03 | 0.59 | 11.05 | 655.39 | 1105.20 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 263 | 20.00 | 19.90 | 0.25892 | 2.1 | 0.03951 | 0.03 | 0.59 | 11.05 | 655.38 | 1105.20 | 6.55 | 0.00 | 0.000 | 0.000 | 0.040 |
| 264 | 19.90 | 19.80 | 0.25886 | 2.1 | 0.03950 | 0.03 | 0.59 | 11.05 | 655.38 | 1105.19 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 265 | 19.80 | 19.70 | 0.25881 | 2.1 | 0.03949 | 0.03 | 0.59 | 11.05 | 655.37 | 1105.18 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 266 | 19.70 | 19.60 | 0.25876 | 2.1 | 0.03948 | 0.03 | 0.59 | 11.05 | 655.37 | 1105.17 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 267 | 19.60 | 19.50 | 0.25871 | 2.1 | 0.03948 | 0.03 | 0.59 | 11.05 | 655.36 | 1105.17 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 268 | 19.50 | 19.40 | 0.25866 | 2.1 | 0.03947 | 0.03 | 0.59 | 11.05 | 655.36 | 1105.16 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 269 | 19.40 | 19.30 | 0.25861 | 2.1 | 0.03946 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.15 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 270 | 19.30 | 19.20 | 0.25855 | 2.1 | 0.03945 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.14 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 271 | 19.20 | 19.10 | 0.25850 | 2.1 | 0.03944 | 0.03 | 0.59 | 11.05 | 655.35 | 1105.14 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 272 | 19.10 | 19.00 | 0.25845 | 2.1 | 0.03944 | 0.03 | 0.59 | 11.05 | 655.34 | 1105.13 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 273 | 19.00 | 18.90 | 0.25840 | 2.1 | 0.03943 | 0.03 | 0.59 | 11.05 | 655.34 | 1105.12 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 274 | 18.90 | 18.80 | 0.25835 | 2.1 | 0.03942 | 0.03 | 0.59 | 11.05 | 655.33 | 1105.11 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 275 | 18.80 | 18.70 | 0.25829 | 2.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.33 | 1105.11 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 276 | 18.70 | 18.60 | 0.25824 | 2.1 | 0.03941 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.10 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 277 | 18.60 | 18.50 | 0.25819 | 2.1 | 0.03940 | 0.03 | 0.59 | 11.05 | 655.32 | 1105.09 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 278 | 18.50 | 18.40 | 0.25814 | 2.1 | 0.03939 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.08 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 279 | 18.40 | 18.30 | 0.25809 | 2.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.31 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 280 | 18.30 | 18.20 | 0.25803 | 2.1 | 0.03938 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.07 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 281 | 18.20 | 18.10 | 0.25798 | 2.1 | 0.03937 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.06 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 282 | 18.10 | 18.00 | 0.25793 | 2.1 | 0.03936 | 0.03 | 0.59 | 11.05 | 655.30 | 1105.05 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 283 | 18.00 | 17.90 | 0.25788 | 2.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 284 | 17.90 | 17.80 | 0.25783 | 2.1 | 0.03935 | 0.03 | 0.59 | 11.05 | 655.29 | 1105.04 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 285 | 17.80 | 17.70 | 0.25777 | 2.1 | 0.03934 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.03 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 286 | 17.70 | 17.60 | 0.25772 | 2.1 | 0.03933 | 0.03 | 0.59 | 11.05 | 655.28 | 1105.02 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 287 | 17.60 | 17.50 | 0.25767 | 2.1 | 0.03932 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 288 | 17.50 | 17.40 | 0.25762 | 2.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.27 | 1105.01 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 289 | 17.40 | 17.30 | 0.25757 | 2.1 | 0.03931 | 0.03 | 0.59 | 11.05 | 655.26 | 1105.00 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 290 | 17.30 | 17.20 | 0.25751 | 2.1 | 0.03930 | 0.03 | 0.59 | 11.05 | 655.26 | 1104.99 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 291 | 17.20 | 17.10 | 0.25746 | 2.1 | 0.03929 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.98 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 292 | 17.10 | 17.00 | 0.25741 | 2.1 | 0.03928 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.97 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 293 | 17.00 | 16.90 | 0.25736 | 2.1 | 0.03928 | 0.03 | 0.59 | 11.05 | 655.25 | 1104.97 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 294 | 16.90 | 16.80 | 0.25731 | 2.1 | 0.03927 | 0.03 | 0.59 | 11.05 | 655.24 | 1104.96 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 295 | 16.80 | 16.70 | 0.25725 | 2.1 | 0.03926 | 0.03 | 0.59 | 11.05 | 655.24 | 1104.95 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 296 | 16.70 | 16.60 | 0.25720 | 2.1 | 0.03925 | 0.03 | 0.59 | 11.05 | 655.23 | 1104.94 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 297 | 16.60 | 16.50 | 0.25715 | 2.1 | 0.03925 | 0.03 | 0.59 | 11.05 | 655.23 | 1104.94 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 298 | 16.50 | 16.40 | 0.25710 | 2.1 | 0.03924 | 0.03 | 0.59 | 11.05 | 655.22 | 1104.93 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 299 | 16.40 | 16.30 | 0.25705 | 2.1 | 0.03923 | 0.03 | 0.59 | 11.05 | 655.22 | 1104.92 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 300 | 16.30 | 16.20 | 0.25699 | 2.1 | 0.03922 | 0.03 | 0.59 | 11.05 | 655.21 | 1104.91 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 301 | 16.20 | 16.10 | 0.25694 | 2.1 | 0.03922 | 0.03 | 0.59 | 11.05 | 655.21 | 1104.91 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 302 | 16.10 | 16.00 | 0.25689 | 2.1 | 0.03921 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.90 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 303 | 16.00 | 15.90 | 0.25684 | 2.1 | 0.03920 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.89 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 304 | 15.90 | 15.80 | 0.25679 | 2.1 | 0.03919 | 0.03 | 0.59 | 11.05 | 655.20 | 1104.88 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 305 | 15.80 | 15.70 | 0.25673 | 2.1 | 0.03918 | 0.03 | 0.59 | 11.05 | 655.19 | 1104.87 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 306 | 15.70 | 15.60 | 0.25668 | 2.1 | 0.03918 | 0.03 | 0.59 | 11.05 | 655.19 | 1104.87 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 307 | 15.60 | 15.50 | 0.25663 | 2.1 | 0.03917 | 0.03 | 0.59 | 11.05 | 655.18 | 1104.86 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 308 | 15.50 | 15.40 | 0.25658 | 2.1 | 0.03916 | 0.03 | 0.59 | 11.05 | 655.18 | 1104.85 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 309 | 15.40 | 15.30 | 0.25653 | 2.1 | 0.03915 | 0.03 | 0.59 | 11.05 | 655.17 | 1104.84 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 310 | 15.30 | 15.20 | 0.25647 | 2.1 | 0.03915 | 0.03 | 0.59 | 11.05 | 655.17 | 1104.84 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 311 | 15.20 | 15.10 | 0.25642 | 2.1 | 0.03914 | 0.03 | 0.59 | 11.05 | 655.16 | 1104.83 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 312 | 15.10 | 15.00 | 0.25637 | 2.1 | 0.03913 | 0.03 | 0.59 | 11.05 | 655.16 | 1104.82 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 313 | 15.00 | 14.90 | 0.25632 | 2.1 | 0.03912 | 0.03 | 0.59 | 11.05 | 655.15 | 1104.81 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 314 | 14.90 | 14.80 | 0.25627 | 2.1 | 0.03912 | 0.03 | 0.59 | 11.05 | 655.15 | 1104.80 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 315 | 14.80 | 14.70 | 0.25621 | 2.1 | 0.03911 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.80 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 316 | 14.70 | 14.60 | 0.25616 | 2.1 | 0.03910 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.79 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 317 | 14.60 | 14.50 | 0.25611 | 2.1 | 0.03909 | 0.03 | 0.59 | 11.05 | 655.14 | 1104.78 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 318 | 14.50 | 14.40 | 0.25606 | 2.1 | 0.03909 | 0.03 | 0.59 | 11.05 | 655.13 | 1104.77 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 319 | 14.40 | 14.30 | 0.25601 | 2.1 | 0.03908 | 0.03 | 0.59 | 11.05 | 655.13 | 1104.77 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 320 | 14.30 | 14.20 | 0.25595 | 2.1 | 0.03907 | 0.03 | 0.59 | 11.05 | 655.12 | 1104.76 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 321 | 14.20 | 14.10 | 0.25590 | 2.1 | 0.03906 | 0.03 | 0.59 | 11.05 | 655.12 | 1104.75 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 322 | 14.10 | 14.00 | 0.25585 | 2.1 | 0.03905 | 0.03 | 0.59 | 11.05 | 655.11 | 1104.74 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 323 | 14.00 | 13.90 | 0.25580 | 2.1 | 0.03905 | 0.03 | 0.59 | 11.05 | 655.11 | 1104.74 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 324 | 13.90 | 13.80 | 0.25575 | 2.1 | 0.03904 | 0.03 | 0.59 | 11.05 | 655.10 | 1104.73 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 325 | 13.80 | 13.70 | 0.25569 | 2.1 | 0.03903 | 0.03 | 0.59 | 11.05 | 655.10 | 1104.72 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 326 | 13.70 | 13.60 | 0.25564 | 2.1 | 0.03902 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.71 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 327 | 13.60 | 13.50 | 0.25559 | 2.1 | 0.03902 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.70 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 328 | 13.50 | 13.40 | 0.25554 | 2.1 | 0.03901 | 0.03 | 0.59 | 11.05 | 655.09 | 1104.70 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 329 | 13.40 | 13.30 | 0.25549 | 2.1 | 0.03900 | 0.03 | 0.59 | 11.05 | 655.08 | 1104.69 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 330 | 13.30 | 13.20 | 0.25543 | 2.1 | 0.03899 | 0.03 | 0.59 | 11.05 | 655.08 | 1104.68 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 331 | 13.20 | 13.10 | 0.25538 | 2.1 | 0.03899 | 0.03 | 0.59 | 11.05 | 655.07 | 1104.67 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 332 | 13.10 | 13.00 | 0.25533 | 2.1 | 0.03898 | 0.03 | 0.59 | 11.05 | 655.07 | 1104.67 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 333 | 13.00 | 12.90 | 0.25528 | 2.1 | 0.03897 | 0.03 | 0.59 | 11.05 | 655.06 | 1104.66 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 334 | 12.90 | 12.80 | 0.25523 | 2.1 | 0.03896 | 0.03 | 0.59 | 11.05 | 655.06 | 1104.65 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 335 | 12.80 | 12.70 | 0.25517 | 2.1 | 0.03895 | 0.03 | 0.59 | 11.05 | 655.05 | 1104.64 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 336 | 12.70 | 12.60 | 0.25512 | 2.1 | 0.03895 | 0.03 | 0.59 | 11.05 | 655.05 | 1104.63 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 337 | 12.60 | 12.50 | 0.25507 | 2.1 | 0.03894 | 0.03 | 0.59 | 11.05 | 655.04 | 1104.63 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 338 | 12.50 | 12.40 | 0.25502 | 2.1 | 0.03893 | 0.03 | 0.59 | 11.05 | 655.04 | 1104.62 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 339 | 12.40 | 12.30 | 0.25497 | 2.1 | 0.03892 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.61 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 340 | 12.30 | 12.20 | 0.25491 | 2.1 | 0.03892 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.60 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 341 | 12.20 | 12.10 | 0.25486 | 2.1 | 0.03891 | 0.03 | 0.59 | 11.05 | 655.03 | 1104.60 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 342 | 12.10 | 12.00 | 0.25481 | 2.1 | 0.03890 | 0.03 | 0.59 | 11.05 | 655.02 | 1104.59 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 343 | 12.00 | 11.90 | 0.25476 | 2.1 | 0.03889 | 0.03 | 0.59 | 11.05 | 655.02 | 1104.58 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 344 | 11.90 | 11.80 | 0.25471 | 2.1 | 0.03889 | 0.03 | 0.59 | 11.05 | 655.01 | 1104.57 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 345 | 11.80 | 11.70 | 0.25465 | 2.1 | 0.03888 | 0.03 | 0.59 | 11.05 | 655.01 | 1104.56 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 346 | 11.70 | 11.60 | 0.25460 | 2.1 | 0.03887 | 0.03 | 0.59 | 11.05 | 655.00 | 1104.56 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 347 | 11.60 | 11.50 | 0.25455 | 2.1 | 0.03886 | 0.03 | 0.59 | 11.05 | 655.00 | 1104.55 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 348 | 11.50 | 11.40 | 0.25450 | 2.1 | 0.03886 | 0.03 | 0.59 | 11.05 | 654.99 | 1104.54 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 349 | 11.40 | 11.30 | 0.25445 | 2.1 | 0.03885 | 0.03 | 0.59 | 11.05 | 654.99 | 1104.53 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 350 | 11.30 | 11.20 | 0.25440 | 2.1 | 0.03884 | 0.03 | 0.59 | 11.05 | 654.98 | 1104.53 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 351 | 11.20 | 11.10 | 0.25434 | 2.1 | 0.03883 | 0.03 | 0.59 | 11.05 | 654.98 | 1104.52 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 352 | 11.10 | 11.00 | 0.25429 | 2.1 | 0.03882 | 0.03 | 0.59 | 11.05 | 654.97 | 1104.51 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 353 | 11.00 | 10.90 | 0.25424 | 2.1 | 0.03882 | 0.03 | 0.59 | 11.05 | 654.97 | 1104.50 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 354 | 10.90 | 10.80 | 0.25419 | 2.1 | 0.03881 | 0.03 | 0.59 | 11.04 | 654.97 | 1104.49 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 355 | 10.80 | 10.70 | 0.25414 | 2.1 | 0.03880 | 0.03 | 0.59 | 11.04 | 654.96 | 1104.49 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 356 | 10.70 | 10.60 | 0.25408 | 2.1 | 0.03879 | 0.03 | 0.59 | 11.04 | 654.96 | 1104.48 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 357 | 10.60 | 10.50 | 0.25403 | 2.1 | 0.03879 | 0.03 | 0.59 | 11.04 | 654.95 | 1104.47 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 358 | 10.50 | 10.40 | 0.25398 | 2.1 | 0.03878 | 0.03 | 0.59 | 11.04 | 654.95 | 1104.46 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 359 | 10.40 | 10.30 | 0.25393 | 2.1 | 0.03877 | 0.03 | 0.59 | 11.04 | 654.94 | 1104.46 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 360 | 10.30 | 10.20 | 0.25388 | 2.1 | 0.03876 | 0.03 | 0.59 | 11.04 | 654.94 | 1104.45 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 361 | 10.20 | 10.10 | 0.25382 | 2.1 | 0.03876 | 0.03 | 0.59 | 11.04 | 654.93 | 1104.44 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 362 | 10.10 | 10.00 | 0.25377 | 2.1 | 0.03875 | 0.03 | 0.59 | 11.04 | 654.93 | 1104.43 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 363 | 10.00 | 9.90 | 0.25372 | 2.1 | 0.03874 | 0.03 | 0.59 | 11.04 | 654.92 | 1104.42 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 364 | 9.90 | 9.80 | 0.25367 | 2.1 | 0.03873 | 0.03 | 0.59 | 11.04 | 654.92 | 1104.42 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 365 | 9.80 | 9.70 | 0.25362 | 2.1 | 0.03872 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.41 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 366 | 9.70 | 9.60 | 0.25356 | 2.1 | 0.03872 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.40 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 367 | 9.60 | 9.50 | 0.25351 | 2.1 | 0.03871 | 0.03 | 0.59 | 11.04 | 654.91 | 1104.39 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 368 | 9.50 | 9.40 | 0.25346 | 2.1 | 0.03870 | 0.03 | 0.59 | 11.04 | 654.90 | 1104.39 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 369 | 9.40 | 9.30 | 0.25341 | 2.1 | 0.03869 | 0.03 | 0.59 | 11.04 | 654.90 | 1104.38 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 370 | 9.30 | 9.20 | 0.25336 | 2.1 | 0.03869 | 0.03 | 0.59 | 11.04 | 654.89 | 1104.37 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 371 | 9.20 | 9.10 | 0.25330 | 2.1 | 0.03868 | 0.03 | 0.59 | 11.04 | 654.89 | 1104.36 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 372 | 9.10 | 9.00 | 0.25325 | 2.1 | 0.03867 | 0.03 | 0.59 | 11.04 | 654.88 | 1104.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| 373 | 9.00 | 8.90 | 0.25320 | 2.1 | 0.03866 | 0.03 | 0.59 | 11.04 | 654.88 | 1104.35 | 6.55 | 0.00 | 0.000 | 0.000 | 0.039 |
| TOT | | | | | | 4.49 | | | 99589.90 | 167942.55 | | | | | |
| AVG | | | | | 0.0392 | | 0.59 | 11.05 | | | 6.55 | | | | |
| CUM | | | | | | 5.83 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 22.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 22.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 235 | 22.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | 17.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 286 | 17.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 287 | 17.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337 | 12.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 338 | 12.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 339 | 12.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.98 | 1.44 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.98 | 1.98 | 1.98 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.27 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.22 | 10.65 | 0.00 | 10.65 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.20 | 10.64 | 0.00 | 10.64 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.19 | 10.62 | 0.00 | 10.62 | 0.00 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.18 | 10.61 | 0.00 | 10.61 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 226 | 23.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.17 | 10.60 | 0.00 | 10.60 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 227 | 23.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.16 | 10.58 | 0.00 | 10.58 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 228 | 23.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.15 | 10.57 | 0.00 | 10.57 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.92 | 0.00 | 3.67 | 134.12 | 5.14 | 10.56 | 0.00 | 10.56 | 0.00 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.92 | 0.00 | 3.67 | 134.12 | 5.14 | 10.55 | 0.00 | 10.55 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.92 | 0.00 | 3.67 | 134.12 | 5.13 | 10.53 | 0.00 | 10.53 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.92 | 0.00 | 3.67 | 134.12 | 5.12 | 10.52 | 0.00 | 10.52 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.92 | 0.00 | 3.67 | 134.12 | 5.11 | 10.51 | 0.00 | 10.51 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.92 | 0.00 | 3.67 | 134.12 | 5.11 | 10.50 | 0.00 | 10.50 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.92 | 0.00 | 3.67 | 134.12 | 5.10 | 10.48 | 0.00 | 10.48 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.92 | 0.00 | 3.67 | 134.12 | 5.09 | 10.47 | 0.00 | 10.47 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.92 | 0.00 | 3.67 | 134.12 | 5.09 | 10.46 | 0.00 | 10.46 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.92 | 0.00 | 3.67 | 134.12 | 5.08 | 10.45 | 0.00 | 10.45 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.07 | 10.40 | 0.00 | 10.40 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.07 | 10.38 | 0.00 | 10.38 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.06 | 10.37 | 0.00 | 10.37 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.06 | 10.36 | 0.00 | 10.36 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.05 | 10.35 | 0.00 | 10.35 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.05 | 10.34 | 0.00 | 10.34 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.05 | 10.33 | 0.00 | 10.33 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.04 | 10.31 | 0.00 | 10.31 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.04 | 10.30 | 0.00 | 10.30 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.04 | 10.29 | 0.00 | 10.29 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.03 | 10.28 | 0.00 | 10.28 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.03 | 10.27 | 0.00 | 10.27 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.03 | 10.26 | 0.00 | 10.26 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.02 | 10.25 | 0.00 | 10.25 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.02 | 10.23 | 0.00 | 10.23 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.02 | 10.22 | 0.00 | 10.22 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.92 | 0.00 | 3.76 | 134.00 | 5.01 | 10.21 | 0.00 | 10.21 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.01 | 10.20 | 0.00 | 10.20 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.01 | 10.19 | 0.00 | 10.19 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.01 | 10.18 | 0.00 | 10.18 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.17 | 0.00 | 10.17 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.16 | 0.00 | 10.16 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.15 | 0.00 | 10.15 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.13 | 0.00 | 10.13 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.12 | 0.00 | 10.12 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 10.11 | 0.00 | 10.11 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.10 | 0.00 | 10.10 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.09 | 0.00 | 10.09 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.08 | 0.00 | 10.08 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.07 | 0.00 | 10.07 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.06 | 0.00 | 10.06 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.05 | 0.00 | 10.05 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 10.04 | 0.00 | 10.04 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 10.03 | 0.00 | 10.03 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 10.02 | 0.00 | 10.02 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 10.01 | 0.00 | 10.01 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 10.00 | 0.00 | 10.00 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.99 | 0.00 | 9.99 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.98 | 0.00 | 9.98 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 278 | 18.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.97 | 0.00 | 9.97 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 279 | 18.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.96 | 0.00 | 9.96 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 280 | 18.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.95 | 0.00 | 9.95 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.94 | 0.00 | 9.94 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.93 | 0.00 | 9.93 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.92 | 0.00 | 9.92 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.91 | 0.00 | 9.91 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.90 | 0.00 | 9.90 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.89 | 0.00 | 9.89 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.88 | 0.00 | 9.88 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.87 | 0.00 | 9.87 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.86 | 0.00 | 9.86 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.85 | 0.00 | 9.85 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.84 | 0.00 | 9.84 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.83 | 0.00 | 9.83 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.82 | 0.00 | 9.82 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.81 | 0.00 | 9.81 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.80 | 0.00 | 9.80 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.79 | 0.00 | 9.79 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.78 | 0.00 | 9.78 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.77 | 0.00 | 9.77 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.76 | 0.00 | 9.76 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.75 | 0.00 | 9.75 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.74 | 0.00 | 9.74 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.73 | 0.00 | 9.73 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.72 | 0.00 | 9.72 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.71 | 0.00 | 9.71 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.71 | 0.00 | 9.71 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.70 | 0.00 | 9.70 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.69 | 0.00 | 9.69 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.68 | 0.00 | 9.68 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.67 | 0.00 | 9.67 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.66 | 0.00 | 9.66 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.65 | 0.00 | 9.65 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.64 | 0.00 | 9.64 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.63 | 0.00 | 9.63 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.63 | 0.00 | 9.63 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.62 | 0.00 | 9.62 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.61 | 0.00 | 9.61 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.60 | 0.00 | 9.60 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.59 | 0.00 | 9.59 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.58 | 0.00 | 9.58 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.57 | 0.00 | 9.57 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.56 | 0.00 | 9.56 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.56 | 0.00 | 9.56 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.55 | 0.00 | 9.55 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.54 | 0.00 | 9.54 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.53 | 0.00 | 9.53 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.52 | 0.00 | 9.52 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.51 | 0.00 | 9.51 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.51 | 0.00 | 9.51 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.50 | 0.00 | 9.50 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 330 | 13.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.49 | 0.00 | 9.49 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 331 | 13.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.48 | 0.00 | 9.48 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 332 | 13.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.47 | 0.00 | 9.47 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.47 | 0.00 | 9.47 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.46 | 0.00 | 9.46 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.45 | 0.00 | 9.45 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.44 | 0.00 | 9.44 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.43 | 0.00 | 9.43 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.43 | 0.00 | 9.43 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.42 | 0.00 | 9.42 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.41 | 0.00 | 9.41 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.40 | 0.00 | 9.40 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.39 | 0.00 | 9.39 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.38 | 0.00 | 9.38 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.37 | 0.00 | 9.37 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.36 | 0.00 | 9.36 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.35 | 0.00 | 9.35 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.34 | 0.00 | 9.34 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.33 | 0.00 | 9.33 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.32 | 0.00 | 9.32 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.32 | 0.00 | 9.32 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.31 | 0.00 | 9.31 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.30 | 0.00 | 9.30 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.30 | 0.00 | 9.30 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.29 | 0.00 | 9.29 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.28 | 0.00 | 9.28 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.27 | 0.00 | 9.27 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.27 | 0.00 | 9.27 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.26 | 0.00 | 9.26 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.25 | 0.00 | 9.25 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.24 | 0.00 | 9.24 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.24 | 0.00 | 9.24 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.23 | 0.00 | 9.23 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.22 | 0.00 | 9.22 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.22 | 0.00 | 9.22 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.21 | 0.00 | 9.21 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 26.92 | 0.00 | 3.76 | 134.00 | 4.97 | 9.20 | 0.00 | 9.20 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.19 | 0.00 | 9.19 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.19 | 0.00 | 9.19 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.18 | 0.00 | 9.18 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.17 | 0.00 | 9.17 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.17 | 0.00 | 9.17 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.25320 | 26.92 | 0.00 | 3.76 | 134.00 | 4.98 | 9.17 | 0.00 | 9.17 | 0.00 | 1.24 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 375 | 8.80 | 8.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 376 | 8.70 | 8.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 377 | 8.60 | 8.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 378 | 8.50 | 8.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 379 | 8.40 | 8.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 380 | 8.30 | 8.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 381 | 8.20 | 8.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 382 | 8.10 | 8.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 383 | 8.00 | 7.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 384 | 7.90 | 7.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 385 | 7.80 | 7.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 386 | 7.70 | 7.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 387 | 7.60 | 7.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 388 | 7.50 | 7.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 389 | 7.40 | 7.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 390 | 7.30 | 7.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 391 | 7.20 | 7.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 392 | 7.10 | 7.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 393 | 7.00 | 6.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 394 | 6.90 | 6.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 395 | 6.80 | 6.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 396 | 6.70 | 6.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 397 | 6.60 | 6.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 398 | 6.50 | 6.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 399 | 6.40 | 6.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 400 | 6.30 | 6.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 401 | 6.20 | 6.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 402 | 6.10 | 6.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 403 | 6.00 | 5.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 404 | 5.90 | 5.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 405 | 5.80 | 5.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 406 | 5.70 | 5.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 407 | 5.60 | 5.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 408 | 5.50 | 5.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 409 | 5.40 | 5.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 410 | 5.30 | 5.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 411 | 5.20 | 5.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 412 | 5.10 | 5.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 413 | 5.00 | 4.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 414 | 4.90 | 4.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 415 | 4.80 | 4.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416 | 4.70 | 4.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 417 | 4.60 | 4.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 418 | 4.50 | 4.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 419 | 4.40 | 4.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 420 | 4.30 | 4.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 421 | 4.20 | 4.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 422 | 4.10 | 4.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 423 | 4.00 | 3.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 424 | 3.90 | 3.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 425 | 3.80 | 3.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 426 | 3.70 | 3.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 427 | 3.60 | 3.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 428 | 3.50 | 3.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 429 | 3.40 | 3.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 430 | 3.30 | 3.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 431 | 3.20 | 3.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 432 | 3.10 | 3.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 433 | 3.00 | 2.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 434 | 2.90 | 2.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 435 | 2.80 | 2.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 436 | 2.70 | 2.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 437 | 2.60 | 2.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 438 | 2.50 | 2.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 439 | 2.40 | 2.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 440 | 2.30 | 2.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 441 | 2.20 | 2.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 442 | 2.10 | 2.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 443 | 2.00 | 1.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 444 | 1.90 | 1.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 445 | 1.80 | 1.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 446 | 1.70 | 1.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 447 | 1.60 | 1.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 448 | 1.50 | 1.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 449 | 1.40 | 1.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 450 | 1.30 | 1.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 451 | 1.20 | 1.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 452 | 1.10 | 1.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 453 | 1.00 | 0.90 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 454 | 0.90 | 0.80 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 455 | 0.80 | 0.70 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 456 | 0.70 | 0.60 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 457 | 0.60 | 0.50 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 458 | 0.50 | 0.40 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 459 | 0.40 | 0.30 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 460 | 0.30 | 0.20 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 461 | 0.20 | 0.10 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| 462 | 0.10 | 0.00 | 0.25320 | 2.1 | 0.05291 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.053 |
| TOT | | | | | | 1.95 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.0529 | | 0.63 | 7.62 | | | 4.79 | | | | |
| CUM | | | | | | 7.78 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | 4.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 418 | 4.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 419 | 4.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.98 | 1.49 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.95 | 1.95 | 1.95 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.31 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 9.16 | 0.00 | 9.16 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 26.92 | 0.00 | 3.76 | 134.00 | 4.99 | 9.15 | 0.00 | 9.15 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 26.92 | 0.00 | 3.76 | 134.00 | 5.00 | 9.14 | 0.00 | 9.14 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 26.92 | 0.00 | 3.76 | 134.00 | 5.01 | 9.13 | 0.00 | 9.13 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 26.92 | 0.00 | 3.76 | 134.00 | 5.02 | 9.12 | 0.00 | 9.12 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 26.92 | 0.00 | 3.76 | 134.00 | 5.03 | 9.11 | 0.00 | 9.11 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 26.92 | 0.00 | 3.76 | 134.00 | 5.03 | 9.10 | 0.00 | 9.10 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 26.92 | 0.00 | 3.76 | 134.00 | 5.04 | 9.09 | 0.00 | 9.09 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 26.92 | 0.00 | 3.76 | 134.00 | 5.05 | 9.08 | 0.00 | 9.08 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 26.92 | 0.00 | 3.76 | 134.00 | 5.06 | 9.07 | 0.00 | 9.07 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 26.92 | 0.00 | 3.76 | 134.00 | 5.06 | 9.06 | 0.00 | 9.06 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.07 | 9.05 | 0.00 | 9.05 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.08 | 9.04 | 0.00 | 9.04 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 26.92 | 0.01 | 3.76 | 134.00 | 5.08 | 9.03 | 0.00 | 9.03 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 26.92 | 0.01 | 3.76 | 134.00 | 5.09 | 9.02 | 0.00 | 9.02 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 26.92 | 0.01 | 3.76 | 134.00 | 5.09 | 9.01 | 0.00 | 9.01 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 26.92 | 0.01 | 3.76 | 134.00 | 5.10 | 9.00 | 0.00 | 9.00 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 26.92 | 0.01 | 3.76 | 134.00 | 5.11 | 8.99 | 0.00 | 8.99 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 26.92 | 0.01 | 3.76 | 134.00 | 5.11 | 8.98 | 0.00 | 8.98 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 26.92 | 0.01 | 3.76 | 134.00 | 5.12 | 8.97 | 0.00 | 8.97 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 26.92 | 0.01 | 3.76 | 134.00 | 5.12 | 8.96 | 0.00 | 8.96 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.13 | 8.95 | 0.00 | 8.95 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.13 | 8.95 | 0.00 | 8.95 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 26.92 | 0.01 | 3.76 | 134.00 | 5.14 | 8.94 | 0.00 | 8.94 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 26.92 | 0.01 | 3.76 | 134.00 | 5.14 | 8.93 | 0.00 | 8.93 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 26.92 | 0.01 | 3.76 | 134.00 | 5.14 | 8.92 | 0.00 | 8.92 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 26.92 | 0.01 | 3.76 | 134.00 | 5.15 | 8.91 | 0.00 | 8.91 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 26.92 | 0.01 | 3.76 | 134.00 | 5.15 | 8.90 | 0.00 | 8.90 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 26.92 | 0.01 | 3.76 | 134.00 | 5.16 | 8.89 | 0.00 | 8.89 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 26.92 | 0.01 | 3.76 | 134.00 | 5.16 | 8.88 | 0.00 | 8.88 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 26.92 | 0.01 | 3.76 | 134.00 | 5.16 | 8.87 | 0.00 | 8.87 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 26.92 | 0.01 | 3.76 | 134.00 | 5.17 | 8.86 | 0.00 | 8.86 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 26.92 | 0.01 | 3.76 | 134.00 | 5.17 | 8.86 | 0.00 | 8.86 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.18 | 8.85 | 0.00 | 8.85 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.18 | 8.84 | 0.00 | 8.84 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 26.92 | 0.02 | 3.76 | 134.00 | 5.18 | 8.83 | 0.00 | 8.83 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 26.92 | 0.02 | 3.76 | 134.00 | 5.19 | 8.82 | 0.00 | 8.82 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 26.92 | 0.02 | 3.76 | 134.00 | 5.19 | 8.81 | 0.00 | 8.81 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 26.92 | 0.02 | 3.76 | 134.00 | 5.19 | 8.80 | 0.00 | 8.80 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 26.92 | 0.02 | 3.76 | 134.00 | 5.20 | 8.80 | 0.00 | 8.80 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 26.92 | 0.02 | 3.76 | 134.00 | 5.20 | 8.79 | 0.00 | 8.79 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 26.92 | 0.02 | 3.76 | 134.00 | 5.20 | 8.78 | 0.00 | 8.78 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 26.92 | 0.02 | 3.76 | 134.00 | 5.20 | 8.77 | 0.00 | 8.77 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.21 | 8.76 | 0.00 | 8.76 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.21 | 8.75 | 0.00 | 8.75 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 26.92 | 0.02 | 3.76 | 134.00 | 5.21 | 8.75 | 0.00 | 8.75 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 26.92 | 0.02 | 3.76 | 134.00 | 5.21 | 8.74 | 0.00 | 8.74 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 421 | 4.100 | 26.92 | 0.02 | 3.76 | 134.00 | 5.22 | 8.73 | 0.00 | 8.73 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 422 | 4.000 | 26.92 | 0.02 | 3.76 | 134.00 | 5.22 | 8.72 | 0.00 | 8.72 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 423 | 3.900 | 26.92 | 0.02 | 3.76 | 134.00 | 5.22 | 8.71 | 0.00 | 8.71 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 26.92 | 0.02 | 3.76 | 134.00 | 5.22 | 8.70 | 0.00 | 8.70 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 26.92 | 0.02 | 3.76 | 134.00 | 5.23 | 8.70 | 0.00 | 8.70 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 26.92 | 0.02 | 3.76 | 134.00 | 5.23 | 8.69 | 0.00 | 8.69 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 26.92 | 0.02 | 3.76 | 134.00 | 5.23 | 8.68 | 0.00 | 8.68 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 26.92 | 0.02 | 3.76 | 134.00 | 5.23 | 8.67 | 0.00 | 8.67 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.23 | 8.66 | 0.00 | 8.66 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.24 | 8.66 | 0.00 | 8.66 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 26.92 | 0.03 | 3.76 | 134.00 | 5.24 | 8.65 | 0.00 | 8.65 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 26.92 | 0.03 | 3.76 | 134.00 | 5.24 | 8.64 | 0.00 | 8.64 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 26.92 | 0.03 | 3.76 | 134.00 | 5.24 | 8.63 | 0.00 | 8.63 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 26.92 | 0.03 | 3.76 | 134.00 | 5.24 | 8.62 | 0.00 | 8.62 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.62 | 0.00 | 8.62 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.61 | 0.00 | 8.61 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.60 | 0.00 | 8.60 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.59 | 0.00 | 8.59 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.59 | 0.00 | 8.59 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.25 | 8.58 | 0.00 | 8.58 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.57 | 0.00 | 8.57 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.56 | 0.00 | 8.56 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.56 | 0.00 | 8.56 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.55 | 0.00 | 8.55 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.54 | 0.00 | 8.54 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.53 | 0.00 | 8.53 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 26.92 | 0.03 | 3.76 | 134.00 | 5.26 | 8.53 | 0.00 | 8.53 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 26.92 | 0.03 | 3.76 | 134.00 | 5.27 | 8.52 | 0.00 | 8.52 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 26.92 | 0.03 | 3.76 | 134.00 | 5.27 | 8.51 | 0.00 | 8.51 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 26.92 | 0.03 | 3.76 | 134.00 | 5.27 | 8.51 | 0.00 | 8.51 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.50 | 0.00 | 8.50 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.49 | 0.00 | 8.49 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.48 | 0.00 | 8.48 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.48 | 0.00 | 8.48 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.47 | 0.00 | 8.47 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 26.92 | 0.04 | 3.76 | 134.00 | 5.27 | 8.46 | 0.00 | 8.46 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.46 | 0.00 | 8.46 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.45 | 0.00 | 8.45 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.44 | 0.00 | 8.44 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.43 | 0.00 | 8.43 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.43 | 0.00 | 8.43 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 26.92 | 0.04 | 3.76 | 134.00 | 5.28 | 8.42 | 0.00 | 8.42 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER

IATT CREEK WATERSHED MODEL
IATT CREEK SUMMER RUN WITH 60% REDUCTION AND NO POINT SOURCE

TRAVEL TIME = 7.78 DAYS

MAXIMUM EFFLUENT = 2.15 PERCENT

FLOW = 0.19260 TO 0.26016 $m^3/s$
DISPERSION = 0.0000 TO 0.0000 $m^2/s$
VELOCITY = 0.03866 TO 3.07823 m/s

```
 DEPTH              =   0.05    TO    0.63      m
 WIDTH              =   1.32    TO   11.05      m

 BOD DECAY          =    0.06   TO    0.09      per day
 NH3 DECAY          =    0.00   TO    0.00      per day
 SOD                =    0.48   TO    3.15      g/m²/d
 NH3 SOURCE         =    0.00   TO    0.00      g/m²/d
 REAERATION         =    1.44   TO   28.48      per day
 BOD SETTLING       =    0.06   TO    0.24      per day
 NBOD DECAY         =    0.08   TO    0.14      per day
 NBOD SETTLING      =    0.24   TO    0.35      per day

 TEMPERATURE        =   26.92   TO   26.92      deg C
 DISSOLVED OXYGEN   =    4.97   TO    7.24      mg/L


     .....EXECUTION COMPLETED
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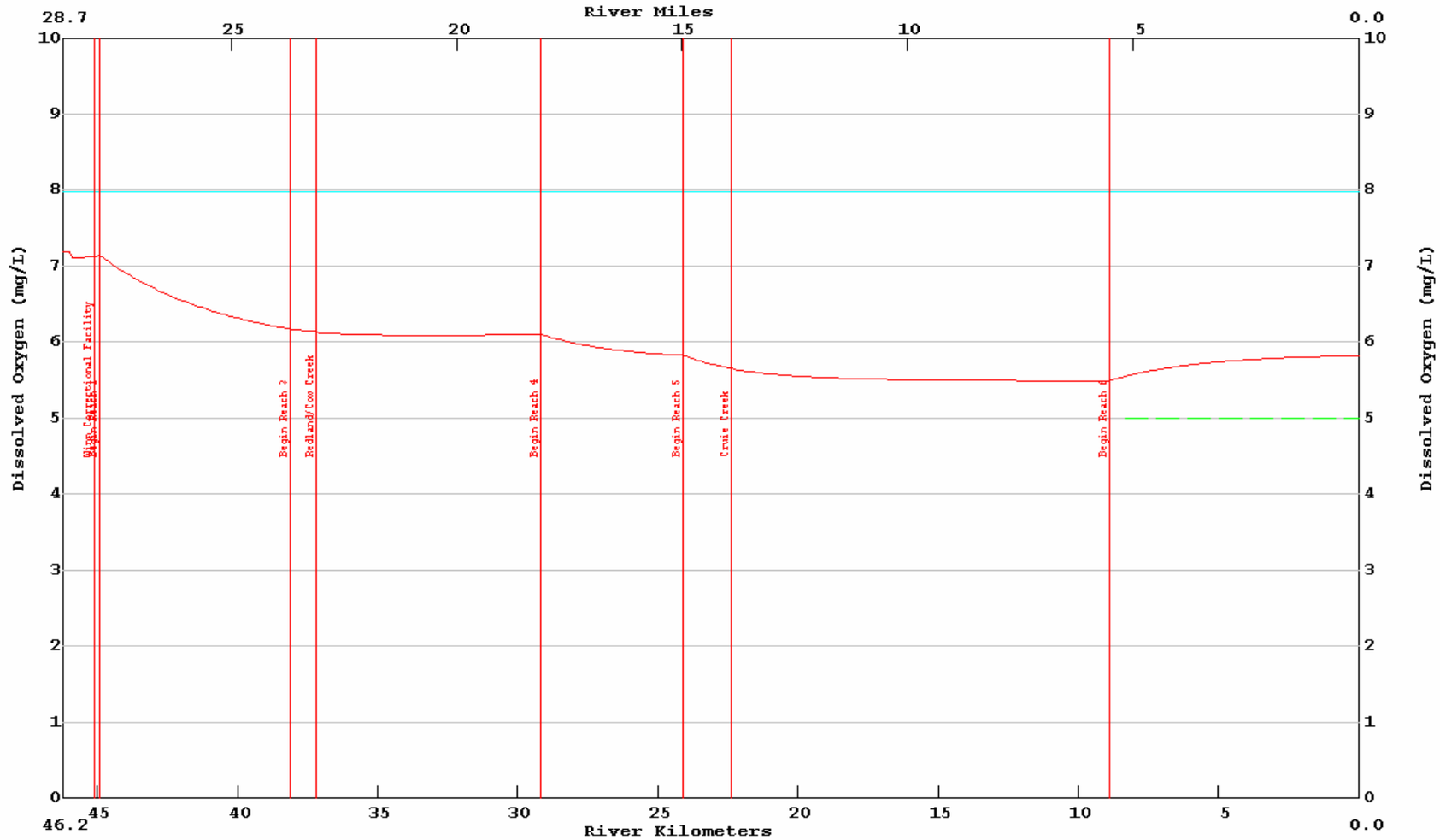
Iatt Creek Watershed TMDL
Subsegment 101303
Originated: March 16, 2005
Revised: January 6, 2006

LA-QUAL Version 8.00 Run at 13:00 on 01/06/2006 File \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files'
IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN min= 5.49 max= 7.19
MAINSTEM



## Iatt Creek 101303 Summer No Load With Point Source Input Data Set

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CNTROL01     IATT CREEK WATERSHED MODEL
CNTROL02     IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  IC HEADWATER - SITE 3                   46.2       44.9     0.1
REACH ID    2  IC SITE 3 - SITE 4                      44.9       38.1     0.1
REACH ID    3  IC SITE 4 - SITE 5                      38.1       29.2     0.1
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REACH ID    4  IC SITE 5 - SITE 6                      29.2       24.1     0.1
REACH ID    5  IC SITE 6 - SITE 8                      24.1        8.9     0.1
REACH ID    6  IC SITE 8 - SITE 9                       8.9        0.0     0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------******-------******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.20    1.321 0.00   0.30    0.048
HYDR-1      2   0.00   0.20    2.073 0.00   0.30    0.120
HYDR-1      3   0.00   0.20    3.886 0.00   0.30    0.253
HYDR-1      4   0.00   0.20    8.077 0.00   0.30    0.440
HYDR-1      5   2.50   0.20    9.144 0.00   0.30    0.593
HYDR-1      6   0.00   0.20    7.620 0.00   0.30    0.628
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    26.92          5.00                          38.00
INITIAL     2    26.92          5.00                           7.00
INITIAL     3    26.92          5.00
INITIAL     4    26.92          5.00                           0.00
INITIAL     5    26.92          5.00
INITIAL     6    26.92          5.00
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
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```
!                REA    KL                     BOD 1  BOD 1                BOD 2    BOD 2
!          R#    EQ    MIN                SOD  DECAY  SETT                DECAY    SETT
COEF-1      1  11.00                     0.50 0.0405 0.20
COEF-1      2  11.00                     2.00 0.0555 0.20
COEF-1      3  11.00                     1.20 0.0640 0.15
COEF-1      4  11.00                     1.24 0.0669 0.15
COEF-1      5  11.00                     1.15 0.0646 0.05
COEF-1      6  11.00                     1.06 0.0611 0.10
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******-------******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.0692   0.30
COEF-2      2  0.0634   0.20
COEF-2      3  0.0531   0.20
COEF-2      4  0.0732   0.20
COEF-2      5  0.0904   0.20
COEF-2      6  0.0944   0.20
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------******-------******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1      1    -0.0028  0.0000  26.920              0         0
INCR-1      2     0.0000  0.0187  26.920              0         0
INCR-1      3     0.0000  0.0442  26.920              0        50
INCR-1      4     0.0000  0.0000  26.920              0        50
INCR-1      5    -0.0079  0.0000  26.920              0        50
INCR-1      6     0.0000  0.0000  26.920              0        50
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
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!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
INCR-2      1     2.00
INCR-2      2     2.00
INCR-2      3     2.00
INCR-2      4     2.00
INCR-2      5     2.00
INCR-2      6     2.00
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3      1              38.0
INCR-3      2               7.0
INCR-3      3
INCR-3      4
INCR-3      5               0.0
INCR-3      6
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1      0.0     1.0
NONPOINT    2      0.0     0.0
NONPOINT    3     25.0     3.0
NONPOINT    4     25.0     6.0
NONPOINT    5     83.0    36.0
NONPOINT    6     50.0    14.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER                 0.1954   26.92  0.07     4.8     167.10
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.18     5.56    0.32
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1              38.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1     3  WINN CORRECTIONAL     0.0083    26.92     0.35     76.1    680.8
WSTLD-1    91  REDLAND/COW CREEK     0.0028    26.92     0.03      8.6     89.1
WSTLD-1   239  CRUIE CREEK           0.0028    26.92     0.05     11.5    123.4
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
WSTLD-2     3      5.00   23.00        43.00
WSTLD-2    91      5.00    5.24         0.64
WSTLD-2   239      5.00    4.55         1.33
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
WSTLD-3     3
WSTLD-3    91
```

```
WSTLD-3   239
ENDATA26
LOWER BC TEMPERATURE                        =  26.92
LOWER BC SALINITY                           =   0.04
LOWER BC CONSERVATIVE MATERIAL I            =  17.90
LOWER BC CONSERVATIVE MATERIAL II           = 107.80
LOWER BC DISSOLVED OXYGEN                   =   5.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  10.04
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =
LOWER BC CHLOROPHYLL A                      =
LOWER BC NBOD                               =   1.60
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************* ** ******** ******** ********
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =   6                        INCREMENT =  0.1
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
PLOT RCH  1  2  3  4  5  6
ENDATA30
OVERLAY 1 Iattovlproj.txt                 :MAINSTEM
ENDATA31
```

# Iatt Creek 101303 Summer No Load With Point Source Output Data Set

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Waterbody\Red_River-10\Iatt_Creek-101303\2004\TMDL\Input Files\Iattsumnoloadwithpointsource.txt
Output produced at 13:01 on 01/06/2006

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

CARD TYPE       CONTROL TITLES

TITLE01         IATT CREEK WATERSHED MODEL
TITLE02         IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN
CNTROL04  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT06   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   IC  HEADWATER - SITE 3              46.20  TO   44.90   0.1000     1.30      13        1     13
REACH ID      2   IC  SITE 3 - SITE 4                 44.90  TO   38.10   0.1000     6.80      68       14     81
REACH ID      3   IC  SITE 4 - SITE 5                 38.10  TO   29.20   0.1000     8.90      89       82    170
REACH ID      4   IC  SITE 5 - SITE 6                 29.20  TO   24.10   0.1000     5.10      51      171    221
REACH ID      5   IC  SITE 6 - SITE 8                 24.10  TO    8.90   0.1000    15.20     152      222    373
REACH ID      6   IC  SITE 8 - SITE 9                  8.90  TO    0.00   0.1000     8.90      89      374    462
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       0.200       1.321       0.000       0.300       0.048     0.00000   0.000
HYDR-1        2   IC       0.000       0.200       2.073       0.000       0.300       0.120     0.00000   0.000
HYDR-1        3   IC       0.000       0.200       3.886       0.000       0.300       0.253     0.00000   0.000
HYDR-1        4   IC       0.000       0.200       8.077       0.000       0.300       0.440     0.00000   0.000
HYDR-1        5   IC       2.500       0.200       9.144       0.000       0.300       0.593     0.00000   0.000
HYDR-1        6   IC       0.000       0.200       7.620       0.000       0.300       0.628     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       26.92      0.00      5.00      0.00      0.00      0.00     38.00      0.00
INITIAL            2   IC       26.92      0.00      5.00      0.00      0.00      0.00      7.00      0.00
INITIAL            3   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   IC       26.92      0.00      5.00      0.00      0.00      0.00      0.00      0.00
ENDATA11

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

COEF-1     1   IC  11 TEXAS           0.000     0.000     0.000     0.500     0.041     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   IC  11 TEXAS           0.000     0.000     0.000     2.000     0.056     0.200     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   IC  11 TEXAS           0.000     0.000     0.000     1.200     0.064     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   IC  11 TEXAS           0.000     0.000     0.000     1.240     0.067     0.150     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   IC  11 TEXAS           0.000     0.000     0.000     1.150     0.065     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   IC  11 TEXAS           0.000     0.000     0.000     1.060     0.061     0.100     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

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

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2             1   IC       0.069     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2             2   IC       0.063     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             3   IC       0.053     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             4   IC       0.073     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             5   IC       0.090     0.200     0.000     0.000     0.000     0.000     0.000
COEF-2             6   IC       0.094     0.200     0.000     0.000     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

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      -0.00280     0.00000     26.92      0.00      0.00      0.00   0.00000  -0.00215
INCR-1           2   IC       0.00000     0.01870     26.92      0.00      0.00      0.00   0.00275   0.00000
INCR-1           3   IC       0.00000     0.04420     26.92      0.00      0.00     50.00   0.00497   0.00000
INCR-1           4   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
INCR-1           5   IC      -0.00790     0.00000     26.92      0.00      0.00     50.00   0.00000  -0.00052
INCR-1           6   IC       0.00000     0.00000     26.92      0.00      0.00     50.00   0.00000   0.00000
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           2   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   IC        2.00      0.00      0.00      0.00      0.00      0.00
INCR-2           6   IC        2.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   IC        0.00     38.00      0.00      0.00
INCR-3           2   IC        0.00      7.00      0.00      0.00
INCR-3           3   IC        0.00      0.00      0.00      0.00
INCR-3           4   IC        0.00      0.00      0.00      0.00
INCR-3           5   IC        0.00      0.00      0.00      0.00
INCR-3           6   IC        0.00      0.00      0.00      0.00
ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   IC        0.00      1.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC       25.00      3.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC       25.00      6.00      0.00      0.00      0.00      0.00
NONPOINT         5   IC       83.00     36.00      0.00      0.00      0.00      0.00
NONPOINT         6   IC       50.00     14.00      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      MG/L      MG/L

HDWTR-1           1     HEADWATER               0   0.19540    6.900   26.92     0.07     4.800   167.100
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER                   7.18      5.56      0.32      0.00      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

HDWTR-3           1     HEADWATER                    0.00     38.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1        3      46.00  WINN CORRECTIONAL      0.00830    0.29308    0.189   26.92     0.35    76.100   680.800
WSTLD-1       91      37.20  REDLAND/COW CREEK      0.00280    0.09887    0.064   26.92     0.03     8.600    89.100
WSTLD-1      239      22.40  CRUIE CREEK            0.00280    0.09887    0.064   26.92     0.05    11.500   123.400
ENDATA24

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

WSTLD-2           3     WINN CORRECTIONAL           5.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          91     REDLAND/COW CREEK           5.00      5.24      0.00      0.64      0.00      0.00      0.00      0.00
WSTLD-2         239     CRUIE CREEK                 5.00      4.55      0.00      1.33      0.00      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
```

```
WSTLD-3           3     WINN CORRECTIONAL           0.00      0.00      0.00      0.00
WSTLD-3          91     REDLAND/COW CREEK           0.00      0.00      0.00      0.00
WSTLD-3         239     CRUIE CREEK                 0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     26.920     deg C
LOWER BC     SALINITY                          =      0.040     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     17.900     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    107.800     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     10.040     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NBOD                              =      1.600     mg/L
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 =  1
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  3  4  5  6
ENDATA30

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


OVERLAY 1 Iattovlproj.txt                :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

FINAL REPORT HEADWATER — IATT CREEK WATERSHED MODEL
REACH NO. 1 HEADWATER - SITE 3 — IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.19540 | 26.92 | 0.07 | 4.80 | 167.10 | 7.18 | 5.56 | 0.00 | 5.56 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 38.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00022 | | | | | | | | | | | | | | | | |
| 3 | WSTLD | 0.00830 | 26.92 | 0.35 | 76.10 | 680.80 | 5.00 | 23.00 | 0.00 | 23.00 | 0.00 | 43.00 | 0.00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.20 | 46.10 | 0.19518 | 0.0 | 3.07823 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.078 |
| 2 | 46.10 | 46.00 | 0.19497 | 0.0 | 3.07484 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.075 |
| 3 | 46.00 | 45.90 | 0.20305 | 4.1 | 3.20234 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.202 |
| 4 | 45.90 | 45.80 | 0.20284 | 4.1 | 3.19894 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.199 |
| 5 | 45.80 | 45.70 | 0.20262 | 4.1 | 3.19554 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.196 |
| 6 | 45.70 | 45.60 | 0.20241 | 4.1 | 3.19215 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.192 |
| 7 | 45.60 | 45.50 | 0.20219 | 4.1 | 3.18875 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.189 |
| 8 | 45.50 | 45.40 | 0.20198 | 4.1 | 3.18535 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.185 |
| 9 | 45.40 | 45.30 | 0.20176 | 4.1 | 3.18196 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.182 |
| 10 | 45.30 | 45.20 | 0.20155 | 4.1 | 3.17856 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.179 |
| 11 | 45.20 | 45.10 | 0.20133 | 4.1 | 3.17516 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.175 |
| 12 | 45.10 | 45.00 | 0.20112 | 4.1 | 3.17177 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.172 |
| 13 | 45.00 | 44.90 | 0.20090 | 4.1 | 3.16837 | 0.00 | 0.05 | 1.32 | 6.34 | 132.10 | 0.06 | 0.00 | 0.000 | 0.000 | 3.168 |
| TOT | | | | | | 0.00 | | | 82.43 | 1717.30 | | | | | |
| AVG | | | | | 3.1681 | | 0.05 | 1.32 | | | 0.06 | | | | |
| CUM | | | | | | 0.00 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 46.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 45.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 45.800 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 45.700 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 45.600 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 45.500 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 45.400 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 45.300 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 45.200 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 45.100 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 45.000 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 44.900 | 7.98 | 28.48 | 0.06 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.11 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 25.00 | 0.04 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | | | 0.07 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46.100 | 26.92 | 0.00 | 4.80 | 167.10 | 7.18 | 5.56 | 0.00 | 5.56 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 35.62 | 0.00 | 0. | 0.00 |
| 2 | 46.000 | 26.92 | 0.00 | 4.80 | 167.10 | 7.19 | 5.56 | 0.00 | 5.56 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 33.23 | 0.00 | 0. | 0.00 |
| 3 | 45.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.10 | 6.27 | 0.00 | 6.27 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 30.85 | 0.00 | 0. | 0.00 |
| 4 | 45.800 | 26.92 | 0.00 | 7.71 | 188.08 | 7.10 | 6.27 | 0.00 | 6.27 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 28.46 | 0.00 | 0. | 0.00 |
| 5 | 45.700 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 6.27 | 0.00 | 6.27 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 26.08 | 0.00 | 0. | 0.00 |
| 6 | 45.600 | 26.92 | 0.00 | 7.71 | 188.08 | 7.11 | 6.27 | 0.00 | 6.27 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 23.69 | 0.00 | 0. | 0.00 |
| 7 | 45.500 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 6.27 | 0.00 | 6.27 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 21.31 | 0.00 | 0. | 0.00 |
| 8 | 45.400 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 6.27 | 0.00 | 6.27 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 18.92 | 0.00 | 0. | 0.00 |
| 9 | 45.300 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 6.27 | 0.00 | 6.27 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 16.54 | 0.00 | 0. | 0.00 |
| 10 | 45.200 | 26.92 | 0.00 | 7.71 | 188.08 | 7.12 | 6.27 | 0.00 | 6.27 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 14.15 | 0.00 | 0. | 0.00 |
| 11 | 45.100 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 6.26 | 0.00 | 6.26 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | 0.00 | 0. | 0.00 |
| 12 | 45.000 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 6.26 | 0.00 | 6.26 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 | 0.00 | 0. | 0.00 |
| 13 | 44.900 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 6.26 | 0.00 | 6.26 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 2 SITE 3 - SITE 4 IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | UPR RCH | 0.20090 | 26.92 | 0.00 | 7.71 | 188.08 | 7.13 | 6.26 | 0.00 | 6.26 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00027 | 26.92 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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

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

| NO. | DIST km | DIST km | $m^3/s$ | EFF | VELO m/s | TIME days | m | m | $m^3$ | AREA $m^2$ | AREA $m^2$ | PRISM $m^3$ | VELO m/s | $m^2/s$ | VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.90 | 44.80 | 0.20118 | 4.1 | 0.80871 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.809 |
| 15 | 44.80 | 44.70 | 0.20145 | 4.1 | 0.80982 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.810 |
| 16 | 44.70 | 44.60 | 0.20173 | 4.1 | 0.81092 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.811 |
| 17 | 44.60 | 44.50 | 0.20200 | 4.1 | 0.81203 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.812 |
| 18 | 44.50 | 44.40 | 0.20228 | 4.1 | 0.81313 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.813 |
| 19 | 44.40 | 44.30 | 0.20255 | 4.0 | 0.81424 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.814 |
| 20 | 44.30 | 44.20 | 0.20283 | 4.0 | 0.81534 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.815 |
| 21 | 44.20 | 44.10 | 0.20310 | 4.0 | 0.81645 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.816 |
| 22 | 44.10 | 44.00 | 0.20338 | 4.0 | 0.81756 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.818 |
| 23 | 44.00 | 43.90 | 0.20365 | 4.0 | 0.81866 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.819 |
| 24 | 43.90 | 43.80 | 0.20393 | 4.0 | 0.81977 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.820 |
| 25 | 43.80 | 43.70 | 0.20420 | 4.0 | 0.82087 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.821 |
| 26 | 43.70 | 43.60 | 0.20448 | 4.0 | 0.82198 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.822 |
| 27 | 43.60 | 43.50 | 0.20475 | 4.0 | 0.82308 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.823 |
| 28 | 43.50 | 43.40 | 0.20503 | 4.0 | 0.82419 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.824 |
| 29 | 43.40 | 43.30 | 0.20530 | 4.0 | 0.82529 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.825 |
| 30 | 43.30 | 43.20 | 0.20558 | 4.0 | 0.82640 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.826 |
| 31 | 43.20 | 43.10 | 0.20585 | 4.0 | 0.82750 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.828 |
| 32 | 43.10 | 43.00 | 0.20613 | 4.0 | 0.82861 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.829 |
| 33 | 43.00 | 42.90 | 0.20640 | 4.0 | 0.82972 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.830 |
| 34 | 42.90 | 42.80 | 0.20668 | 4.0 | 0.83082 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.831 |
| 35 | 42.80 | 42.70 | 0.20695 | 4.0 | 0.83193 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.832 |
| 36 | 42.70 | 42.60 | 0.20723 | 4.0 | 0.83303 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.833 |
| 37 | 42.60 | 42.50 | 0.20750 | 4.0 | 0.83414 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.834 |
| 38 | 42.50 | 42.40 | 0.20778 | 3.9 | 0.83524 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.835 |
| 39 | 42.40 | 42.30 | 0.20805 | 3.9 | 0.83635 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.836 |
| 40 | 42.30 | 42.20 | 0.20833 | 3.9 | 0.83745 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.837 |
| 41 | 42.20 | 42.10 | 0.20860 | 3.9 | 0.83856 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.839 |
| 42 | 42.10 | 42.00 | 0.20888 | 3.9 | 0.83967 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.840 |
| 43 | 42.00 | 41.90 | 0.20915 | 3.9 | 0.84077 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.841 |
| 44 | 41.90 | 41.80 | 0.20943 | 3.9 | 0.84188 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.842 |
| 45 | 41.80 | 41.70 | 0.20970 | 3.9 | 0.84298 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.843 |
| 46 | 41.70 | 41.60 | 0.20998 | 3.9 | 0.84409 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.844 |
| 47 | 41.60 | 41.50 | 0.21025 | 3.9 | 0.84519 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.845 |
| 48 | 41.50 | 41.40 | 0.21053 | 3.9 | 0.84630 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.846 |
| 49 | 41.40 | 41.30 | 0.21080 | 3.9 | 0.84740 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.847 |
| 50 | 41.30 | 41.20 | 0.21108 | 3.9 | 0.84851 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.849 |
| 51 | 41.20 | 41.10 | 0.21135 | 3.9 | 0.84961 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.850 |
| 52 | 41.10 | 41.00 | 0.21163 | 3.9 | 0.85072 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.851 |
| 53 | 41.00 | 40.90 | 0.21190 | 3.9 | 0.85183 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.852 |
| 54 | 40.90 | 40.80 | 0.21218 | 3.9 | 0.85293 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.853 |
| 55 | 40.80 | 40.70 | 0.21245 | 3.9 | 0.85404 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.854 |
| 56 | 40.70 | 40.60 | 0.21273 | 3.9 | 0.85514 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.855 |
| 57 | 40.60 | 40.50 | 0.21300 | 3.9 | 0.85625 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.856 |
| 58 | 40.50 | 40.40 | 0.21328 | 3.8 | 0.85735 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.857 |
| 59 | 40.40 | 40.30 | 0.21355 | 3.8 | 0.85846 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.858 |
| 60 | 40.30 | 40.20 | 0.21383 | 3.8 | 0.85956 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.860 |
| 61 | 40.20 | 40.10 | 0.21410 | 3.8 | 0.86067 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.861 |
| 62 | 40.10 | 40.00 | 0.21438 | 3.8 | 0.86177 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.862 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 40.00 | 39.90 | 0.21465 | 3.8 | 0.86288 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.863 |
| 64 | 39.90 | 39.80 | 0.21493 | 3.8 | 0.86399 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.864 |
| 65 | 39.80 | 39.70 | 0.21520 | 3.8 | 0.86509 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.865 |
| 66 | 39.70 | 39.60 | 0.21548 | 3.8 | 0.86620 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.866 |
| 67 | 39.60 | 39.50 | 0.21575 | 3.8 | 0.86730 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.867 |
| 68 | 39.50 | 39.40 | 0.21603 | 3.8 | 0.86841 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.868 |
| 69 | 39.40 | 39.30 | 0.21630 | 3.8 | 0.86951 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.870 |
| 70 | 39.30 | 39.20 | 0.21658 | 3.8 | 0.87062 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.871 |
| 71 | 39.20 | 39.10 | 0.21685 | 3.8 | 0.87172 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.872 |
| 72 | 39.10 | 39.00 | 0.21713 | 3.8 | 0.87283 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.873 |
| 73 | 39.00 | 38.90 | 0.21740 | 3.8 | 0.87394 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.874 |
| 74 | 38.90 | 38.80 | 0.21768 | 3.8 | 0.87504 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.875 |
| 75 | 38.80 | 38.70 | 0.21795 | 3.8 | 0.87615 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.876 |
| 76 | 38.70 | 38.60 | 0.21823 | 3.8 | 0.87725 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.877 |
| 77 | 38.60 | 38.50 | 0.21850 | 3.8 | 0.87836 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.878 |
| 78 | 38.50 | 38.40 | 0.21878 | 3.7 | 0.87946 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.879 |
| 79 | 38.40 | 38.30 | 0.21905 | 3.7 | 0.88057 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.881 |
| 80 | 38.30 | 38.20 | 0.21933 | 3.7 | 0.88167 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.882 |
| 81 | 38.20 | 38.10 | 0.21960 | 3.7 | 0.88278 | 0.00 | 0.12 | 2.07 | 24.88 | 207.30 | 0.25 | 0.00 | 0.000 | 0.000 | 0.883 |
| TOT | | | | | | 0.09 | | | 1691.57 | 14096.39 | | | | | |
| AVG | | | | | 0.8452 | | 0.12 | 2.07 | | | 0.25 | | | | |
| CUM | | | | | | 0.10 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 7.98 | 13.76 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 44.700 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 44.600 | 7.98 | 13.77 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 44.500 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 44.400 | 7.98 | 13.78 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 44.300 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 44.200 | 7.98 | 13.79 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 44.100 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 44.000 | 7.98 | 13.80 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 43.900 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 43.800 | 7.98 | 13.81 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 43.700 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 43.600 | 7.98 | 13.82 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 43.500 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 43.400 | 7.98 | 13.83 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 43.300 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 43.200 | 7.98 | 13.84 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 43.100 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 43.000 | 7.98 | 13.85 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 42.900 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 42.800 | 7.98 | 13.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 42.700 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 42.600 | 7.98 | 13.87 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 42.500 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 42.400 | 7.98 | 13.88 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 42.300 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 42.200 | 7.98 | 13.89 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 42.100 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 42.000 | 7.98 | 13.90 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 41.900 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 41.800 | 7.98 | 13.91 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 41.700 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 41.600 | 7.98 | 13.92 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 41.500 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 41.400 | 7.98 | 13.93 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 41.300 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 41.200 | 7.98 | 13.94 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 41.100 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 41.000 | 7.98 | 13.95 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 40.900 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 40.800 | 7.98 | 13.96 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 40.700 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 40.600 | 7.98 | 13.97 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 40.500 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 40.400 | 7.98 | 13.98 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 40.300 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 40.200 | 7.98 | 13.99 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 40.100 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 40.000 | 7.98 | 14.00 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 39.900 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 39.800 | 7.98 | 14.01 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 39.700 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 39.600 | 7.98 | 14.02 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 39.500 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 39.400 | 7.98 | 14.03 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 39.300 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 39.200 | 7.98 | 14.04 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 39.100 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 39.000 | 7.98 | 14.05 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 38.900 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 38.800 | 7.98 | 14.06 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 38.700 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 38.600 | 7.98 | 14.07 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 38.500 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 38.400 | 7.98 | 14.08 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 38.300 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 38.200 | 7.98 | 14.09 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 38.100 | 7.98 | 14.10 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 3.09 | 3.09 | 0.10 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 12.23 | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | | | 0.06 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 44.800 | 26.92 | 0.00 | 7.70 | 187.82 | 7.11 | 6.25 | 0.00 | 6.25 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0. | 0.00 |
| 15 | 44.700 | 26.92 | 0.00 | 7.69 | 187.56 | 7.08 | 6.24 | 0.00 | 6.24 | 0.00 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 6.79 | 0.00 | 0. | 0.00 |
| 16 | 44.600 | 26.92 | 0.00 | 7.68 | 187.31 | 7.05 | 6.23 | 0.00 | 6.23 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 6.69 | 0.00 | 0. | 0.00 |
| 17 | 44.500 | 26.92 | 0.00 | 7.67 | 187.05 | 7.03 | 6.22 | 0.00 | 6.22 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0. | 0.00 |
| 18 | 44.400 | 26.92 | 0.00 | 7.66 | 186.80 | 7.00 | 6.21 | 0.00 | 6.21 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 6.49 | 0.00 | 0. | 0.00 |
| 19 | 44.300 | 26.92 | 0.00 | 7.65 | 186.54 | 6.98 | 6.20 | 0.00 | 6.20 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 6.38 | 0.00 | 0. | 0.00 |
| 20 | 44.200 | 26.92 | 0.00 | 7.64 | 186.29 | 6.96 | 6.18 | 0.00 | 6.18 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 6.28 | 0.00 | 0. | 0.00 |
| 21 | 44.100 | 26.92 | 0.00 | 7.63 | 186.04 | 6.93 | 6.17 | 0.00 | 6.17 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0. | 0.00 |
| 22 | 44.000 | 26.92 | 0.00 | 7.62 | 185.79 | 6.91 | 6.16 | 0.00 | 6.16 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0. | 0.00 |
| 23 | 43.900 | 26.92 | 0.00 | 7.61 | 185.54 | 6.89 | 6.15 | 0.00 | 6.15 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 0.00 | 0. | 0.00 |
| 24 | 43.800 | 26.92 | 0.00 | 7.60 | 185.29 | 6.87 | 6.14 | 0.00 | 6.14 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0. | 0.00 |
| 25 | 43.700 | 26.92 | 0.00 | 7.59 | 185.04 | 6.85 | 6.13 | 0.00 | 6.13 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0. | 0.00 |
| 26 | 43.600 | 26.92 | 0.00 | 7.58 | 184.79 | 6.83 | 6.12 | 0.00 | 6.12 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0. | 0.00 |
| 27 | 43.500 | 26.92 | 0.00 | 7.57 | 184.54 | 6.80 | 6.11 | 0.00 | 6.11 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0. | 0.00 |
| 28 | 43.400 | 26.92 | 0.00 | 7.56 | 184.29 | 6.79 | 6.10 | 0.00 | 6.10 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0. | 0.00 |
| 29 | 43.300 | 26.92 | 0.00 | 7.55 | 184.04 | 6.77 | 6.09 | 0.00 | 6.09 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 | 0.00 | 0. | 0.00 |
| 30 | 43.200 | 26.92 | 0.00 | 7.54 | 183.80 | 6.75 | 6.08 | 0.00 | 6.08 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0. | 0.00 |
| 31 | 43.100 | 26.92 | 0.00 | 7.53 | 183.55 | 6.73 | 6.06 | 0.00 | 6.06 | 0.00 | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 5.15 | 0.00 | 0. | 0.00 |
| 32 | 43.000 | 26.92 | 0.00 | 7.52 | 183.31 | 6.71 | 6.05 | 0.00 | 6.05 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0. | 0.00 |
| 33 | 42.900 | 26.92 | 0.00 | 7.51 | 183.06 | 6.69 | 6.04 | 0.00 | 6.04 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0. | 0.00 |
| 34 | 42.800 | 26.92 | 0.00 | 7.50 | 182.82 | 6.67 | 6.03 | 0.00 | 6.03 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 4.84 | 0.00 | 0. | 0.00 |
| 35 | 42.700 | 26.92 | 0.00 | 7.49 | 182.58 | 6.66 | 6.02 | 0.00 | 6.02 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 4.74 | 0.00 | 0. | 0.00 |
| 36 | 42.600 | 26.92 | 0.00 | 7.48 | 182.34 | 6.64 | 6.01 | 0.00 | 6.01 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0. | 0.00 |
| 37 | 42.500 | 26.92 | 0.00 | 7.47 | 182.09 | 6.62 | 6.00 | 0.00 | 6.00 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 4.53 | 0.00 | 0. | 0.00 |
| 38 | 42.400 | 26.92 | 0.00 | 7.46 | 181.85 | 6.61 | 5.99 | 0.00 | 5.99 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 4.43 | 0.00 | 0. | 0.00 |
| 39 | 42.300 | 26.92 | 0.00 | 7.45 | 181.61 | 6.59 | 5.98 | 0.00 | 5.98 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 4.32 | 0.00 | 0. | 0.00 |
| 40 | 42.200 | 26.92 | 0.00 | 7.44 | 181.37 | 6.58 | 5.97 | 0.00 | 5.97 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0. | 0.00 |
| 41 | 42.100 | 26.92 | 0.00 | 7.43 | 181.13 | 6.56 | 5.96 | 0.00 | 5.96 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0. | 0.00 |
| 42 | 42.000 | 26.92 | 0.00 | 7.42 | 180.89 | 6.55 | 5.95 | 0.00 | 5.95 | 0.00 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 4.01 | 0.00 | 0. | 0.00 |
| 43 | 41.900 | 26.92 | 0.00 | 7.41 | 180.66 | 6.53 | 5.94 | 0.00 | 5.94 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0. | 0.00 |
| 44 | 41.800 | 26.92 | 0.00 | 7.40 | 180.42 | 6.52 | 5.93 | 0.00 | 5.93 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.81 | 0.00 | 0. | 0.00 |
| 45 | 41.700 | 26.92 | 0.00 | 7.39 | 180.18 | 6.51 | 5.92 | 0.00 | 5.92 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0. | 0.00 |
| 46 | 41.600 | 26.92 | 0.00 | 7.38 | 179.95 | 6.49 | 5.91 | 0.00 | 5.91 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0. | 0.00 |
| 47 | 41.500 | 26.92 | 0.00 | 7.37 | 179.71 | 6.48 | 5.90 | 0.00 | 5.90 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0. | 0.00 |
| 48 | 41.400 | 26.92 | 0.00 | 7.36 | 179.48 | 6.47 | 5.89 | 0.00 | 5.89 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0. | 0.00 |
| 49 | 41.300 | 26.92 | 0.00 | 7.35 | 179.24 | 6.45 | 5.88 | 0.00 | 5.88 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0. | 0.00 |
| 50 | 41.200 | 26.92 | 0.00 | 7.34 | 179.01 | 6.44 | 5.87 | 0.00 | 5.87 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0. | 0.00 |
| 51 | 41.100 | 26.92 | 0.00 | 7.33 | 178.78 | 6.43 | 5.86 | 0.00 | 5.86 | 0.00 | 1.98 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0. | 0.00 |
| 52 | 41.000 | 26.92 | 0.00 | 7.32 | 178.54 | 6.42 | 5.85 | 0.00 | 5.85 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 2.99 | 0.00 | 0. | 0.00 |
| 53 | 40.900 | 26.92 | 0.00 | 7.31 | 178.31 | 6.41 | 5.84 | 0.00 | 5.84 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0. | 0.00 |
| 54 | 40.800 | 26.92 | 0.00 | 7.30 | 178.08 | 6.40 | 5.83 | 0.00 | 5.83 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0. | 0.00 |
| 55 | 40.700 | 26.92 | 0.00 | 7.29 | 177.85 | 6.38 | 5.82 | 0.00 | 5.82 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0. | 0.00 |
| 56 | 40.600 | 26.92 | 0.00 | 7.28 | 177.62 | 6.37 | 5.81 | 0.00 | 5.81 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 2.57 | 0.00 | 0. | 0.00 |
| 57 | 40.500 | 26.92 | 0.00 | 7.27 | 177.39 | 6.36 | 5.80 | 0.00 | 5.80 | 0.00 | 1.96 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0. | 0.00 |
| 58 | 40.400 | 26.92 | 0.00 | 7.26 | 177.16 | 6.35 | 5.79 | 0.00 | 5.79 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 2.37 | 0.00 | 0. | 0.00 |
| 59 | 40.300 | 26.92 | 0.00 | 7.25 | 176.93 | 6.34 | 5.78 | 0.00 | 5.78 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 40.200 | 26.92 | 0.00 | 7.25 | 176.71 | 6.33 | 5.77 | 0.00 | 5.77 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 | 0. | 0.00 |
| 61 | 40.100 | 26.92 | 0.00 | 7.24 | 176.48 | 6.32 | 5.76 | 0.00 | 5.76 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0. | 0.00 |
| 62 | 40.000 | 26.92 | 0.00 | 7.23 | 176.25 | 6.31 | 5.75 | 0.00 | 5.75 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.00 | 0. | 0.00 |
| 63 | 39.900 | 26.92 | 0.00 | 7.22 | 176.03 | 6.30 | 5.74 | 0.00 | 5.74 | 0.00 | 1.94 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 0.00 | 0. | 0.00 |
| 64 | 39.800 | 26.92 | 0.00 | 7.21 | 175.80 | 6.30 | 5.73 | 0.00 | 5.73 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.00 | 0. | 0.00 |
| 65 | 39.700 | 26.92 | 0.00 | 7.20 | 175.58 | 6.29 | 5.72 | 0.00 | 5.72 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.00 | 0. | 0.00 |
| 66 | 39.600 | 26.92 | 0.00 | 7.19 | 175.35 | 6.28 | 5.71 | 0.00 | 5.71 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0. | 0.00 |
| 67 | 39.500 | 26.92 | 0.00 | 7.18 | 175.13 | 6.27 | 5.70 | 0.00 | 5.70 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 1.44 | 0.00 | 0. | 0.00 |
| 68 | 39.400 | 26.92 | 0.00 | 7.17 | 174.91 | 6.26 | 5.69 | 0.00 | 5.69 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 0.00 | 0. | 0.00 |
| 69 | 39.300 | 26.92 | 0.00 | 7.16 | 174.69 | 6.25 | 5.68 | 0.00 | 5.68 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0. | 0.00 |
| 70 | 39.200 | 26.92 | 0.00 | 7.15 | 174.46 | 6.24 | 5.67 | 0.00 | 5.67 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 0.00 | 0. | 0.00 |
| 71 | 39.100 | 26.92 | 0.00 | 7.14 | 174.24 | 6.24 | 5.66 | 0.00 | 5.66 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 0. | 0.00 |
| 72 | 39.000 | 26.92 | 0.00 | 7.14 | 174.02 | 6.23 | 5.65 | 0.00 | 5.65 | 0.00 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 0.00 | 0. | 0.00 |
| 73 | 38.900 | 26.92 | 0.00 | 7.13 | 173.80 | 6.22 | 5.64 | 0.00 | 5.64 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0. | 0.00 |
| 74 | 38.800 | 26.92 | 0.00 | 7.12 | 173.58 | 6.21 | 5.63 | 0.00 | 5.63 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0. | 0.00 |
| 75 | 38.700 | 26.92 | 0.00 | 7.11 | 173.36 | 6.21 | 5.62 | 0.00 | 5.62 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0. | 0.00 |
| 76 | 38.600 | 26.92 | 0.00 | 7.10 | 173.14 | 6.20 | 5.61 | 0.00 | 5.61 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0. | 0.00 |
| 77 | 38.500 | 26.92 | 0.00 | 7.09 | 172.93 | 6.19 | 5.60 | 0.00 | 5.60 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0. | 0.00 |
| 78 | 38.400 | 26.92 | 0.00 | 7.08 | 172.71 | 6.19 | 5.59 | 0.00 | 5.59 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0. | 0.00 |
| 79 | 38.300 | 26.92 | 0.00 | 7.07 | 172.49 | 6.18 | 5.58 | 0.00 | 5.58 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0. | 0.00 |
| 80 | 38.200 | 26.92 | 0.00 | 7.06 | 172.28 | 6.17 | 5.58 | 0.00 | 5.58 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0. | 0.00 |
| 81 | 38.100 | 26.92 | 0.00 | 7.05 | 172.06 | 6.17 | 5.57 | 0.00 | 5.57 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 3 SITE 4 - SITE 5 IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | UPR RCH | 0.21960 | 26.92 | 0.00 | 7.05 | 172.06 | 6.17 | 5.57 | 0.00 | 5.57 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00050 | 26.92 | 0.00 | 0.00 | 50.00 | 2.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 91 | WSTLD | 0.00280 | 26.92 | 0.03 | 8.60 | 89.10 | 5.00 | 5.24 | 0.00 | 5.24 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.10 | 38.00 | 0.22010 | 3.7 | 0.22387 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 83 | 38.00 | 37.90 | 0.22059 | 3.7 | 0.22437 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.224 |
| 84 | 37.90 | 37.80 | 0.22109 | 3.7 | 0.22488 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 85 | 37.80 | 37.70 | 0.22159 | 3.7 | 0.22538 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.225 |
| 86 | 37.70 | 37.60 | 0.22208 | 3.7 | 0.22589 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 87 | 37.60 | 37.50 | 0.22258 | 3.7 | 0.22639 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.226 |
| 88 | 37.50 | 37.40 | 0.22308 | 3.7 | 0.22690 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |
| 89 | 37.40 | 37.30 | 0.22357 | 3.7 | 0.22740 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.227 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 37.30 | 37.20 | 0.22407 | 3.7 | 0.22791 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.228 |
| 91 | 37.20 | 37.10 | 0.22737 | 4.8 | 0.23126 | 0.01 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.231 |
| 92 | 37.10 | 37.00 | 0.22786 | 4.8 | 0.23177 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 93 | 37.00 | 36.90 | 0.22836 | 4.8 | 0.23227 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.232 |
| 94 | 36.90 | 36.80 | 0.22886 | 4.8 | 0.23278 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 95 | 36.80 | 36.70 | 0.22935 | 4.8 | 0.23328 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.233 |
| 96 | 36.70 | 36.60 | 0.22985 | 4.8 | 0.23379 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 97 | 36.60 | 36.50 | 0.23035 | 4.8 | 0.23429 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.234 |
| 98 | 36.50 | 36.40 | 0.23084 | 4.8 | 0.23480 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 99 | 36.40 | 36.30 | 0.23134 | 4.8 | 0.23530 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.235 |
| 100 | 36.30 | 36.20 | 0.23184 | 4.7 | 0.23581 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 101 | 36.20 | 36.10 | 0.23233 | 4.7 | 0.23631 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.236 |
| 102 | 36.10 | 36.00 | 0.23283 | 4.7 | 0.23682 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 103 | 36.00 | 35.90 | 0.23333 | 4.7 | 0.23732 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.237 |
| 104 | 35.90 | 35.80 | 0.23382 | 4.7 | 0.23783 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 105 | 35.80 | 35.70 | 0.23432 | 4.7 | 0.23833 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.238 |
| 106 | 35.70 | 35.60 | 0.23482 | 4.7 | 0.23884 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 107 | 35.60 | 35.50 | 0.23531 | 4.7 | 0.23934 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.239 |
| 108 | 35.50 | 35.40 | 0.23581 | 4.7 | 0.23985 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 109 | 35.40 | 35.30 | 0.23631 | 4.7 | 0.24035 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.240 |
| 110 | 35.30 | 35.20 | 0.23680 | 4.6 | 0.24086 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 111 | 35.20 | 35.10 | 0.23730 | 4.6 | 0.24136 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.241 |
| 112 | 35.10 | 35.00 | 0.23780 | 4.6 | 0.24187 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 113 | 35.00 | 34.90 | 0.23829 | 4.6 | 0.24237 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.242 |
| 114 | 34.90 | 34.80 | 0.23879 | 4.6 | 0.24288 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 115 | 34.80 | 34.70 | 0.23929 | 4.6 | 0.24338 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.243 |
| 116 | 34.70 | 34.60 | 0.23978 | 4.6 | 0.24389 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 117 | 34.60 | 34.50 | 0.24028 | 4.6 | 0.24439 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.244 |
| 118 | 34.50 | 34.40 | 0.24078 | 4.6 | 0.24490 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 119 | 34.40 | 34.30 | 0.24127 | 4.6 | 0.24541 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.245 |
| 120 | 34.30 | 34.20 | 0.24177 | 4.6 | 0.24591 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 121 | 34.20 | 34.10 | 0.24227 | 4.5 | 0.24642 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.246 |
| 122 | 34.10 | 34.00 | 0.24276 | 4.5 | 0.24692 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 123 | 34.00 | 33.90 | 0.24326 | 4.5 | 0.24743 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.247 |
| 124 | 33.90 | 33.80 | 0.24376 | 4.5 | 0.24793 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 125 | 33.80 | 33.70 | 0.24425 | 4.5 | 0.24844 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.248 |
| 126 | 33.70 | 33.60 | 0.24475 | 4.5 | 0.24894 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 127 | 33.60 | 33.50 | 0.24524 | 4.5 | 0.24945 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.249 |
| 128 | 33.50 | 33.40 | 0.24574 | 4.5 | 0.24995 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 129 | 33.40 | 33.30 | 0.24624 | 4.5 | 0.25046 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.250 |
| 130 | 33.30 | 33.20 | 0.24673 | 4.5 | 0.25096 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 131 | 33.20 | 33.10 | 0.24723 | 4.5 | 0.25147 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.251 |
| 132 | 33.10 | 33.00 | 0.24773 | 4.4 | 0.25197 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 133 | 33.00 | 32.90 | 0.24822 | 4.4 | 0.25248 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.252 |
| 134 | 32.90 | 32.80 | 0.24872 | 4.4 | 0.25298 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 135 | 32.80 | 32.70 | 0.24922 | 4.4 | 0.25349 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.253 |
| 136 | 32.70 | 32.60 | 0.24971 | 4.4 | 0.25399 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 137 | 32.60 | 32.50 | 0.25021 | 4.4 | 0.25450 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.254 |
| 138 | 32.50 | 32.40 | 0.25071 | 4.4 | 0.25500 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.255 |
| 139 | 32.40 | 32.30 | 0.25120 | 4.4 | 0.25551 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 140 | 32.30 | 32.20 | 0.25170 | 4.4 | 0.25601 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.256 |
| 141 | 32.20 | 32.10 | 0.25220 | 4.4 | 0.25652 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 142 | 32.10 | 32.00 | 0.25269 | 4.4 | 0.25702 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.257 |
| 143 | 32.00 | 31.90 | 0.25319 | 4.3 | 0.25753 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 144 | 31.90 | 31.80 | 0.25369 | 4.3 | 0.25803 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.258 |
| 145 | 31.80 | 31.70 | 0.25418 | 4.3 | 0.25854 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 146 | 31.70 | 31.60 | 0.25468 | 4.3 | 0.25904 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.259 |
| 147 | 31.60 | 31.50 | 0.25518 | 4.3 | 0.25955 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 148 | 31.50 | 31.40 | 0.25567 | 4.3 | 0.26005 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.260 |
| 149 | 31.40 | 31.30 | 0.25617 | 4.3 | 0.26056 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 150 | 31.30 | 31.20 | 0.25667 | 4.3 | 0.26106 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.261 |
| 151 | 31.20 | 31.10 | 0.25716 | 4.3 | 0.26157 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 152 | 31.10 | 31.00 | 0.25766 | 4.3 | 0.26207 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.262 |
| 153 | 31.00 | 30.90 | 0.25816 | 4.3 | 0.26258 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 154 | 30.90 | 30.80 | 0.25865 | 4.3 | 0.26308 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.263 |
| 155 | 30.80 | 30.70 | 0.25915 | 4.2 | 0.26359 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 156 | 30.70 | 30.60 | 0.25965 | 4.2 | 0.26409 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.264 |
| 157 | 30.60 | 30.50 | 0.26014 | 4.2 | 0.26460 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 158 | 30.50 | 30.40 | 0.26064 | 4.2 | 0.26511 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.265 |
| 159 | 30.40 | 30.30 | 0.26114 | 4.2 | 0.26561 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 160 | 30.30 | 30.20 | 0.26163 | 4.2 | 0.26612 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.266 |
| 161 | 30.20 | 30.10 | 0.26213 | 4.2 | 0.26662 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 162 | 30.10 | 30.00 | 0.26263 | 4.2 | 0.26713 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.267 |
| 163 | 30.00 | 29.90 | 0.26312 | 4.2 | 0.26763 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 164 | 29.90 | 29.80 | 0.26362 | 4.2 | 0.26814 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.268 |
| 165 | 29.80 | 29.70 | 0.26412 | 4.2 | 0.26864 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 166 | 29.70 | 29.60 | 0.26461 | 4.2 | 0.26915 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.269 |
| 167 | 29.60 | 29.50 | 0.26511 | 4.2 | 0.26965 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 168 | 29.50 | 29.40 | 0.26561 | 4.1 | 0.27016 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.270 |
| 169 | 29.40 | 29.30 | 0.26610 | 4.1 | 0.27066 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| 170 | 29.30 | 29.20 | 0.26660 | 4.1 | 0.27117 | 0.00 | 0.25 | 3.89 | 98.32 | 388.60 | 0.98 | 0.00 | 0.000 | 0.000 | 0.271 |
| TOT | | | | | | 0.42 | | | 8750.11 | 34585.38 | | | | | |
| AVG | | | | | 0.2479 | | 0.25 | 3.89 | | | 0.98 | | | | |
| CUM | | | | | | 0.51 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 37.900 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 37.800 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 37.700 | 7.98 | 4.98 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 37.600 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 37.500 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 37.400 | 7.98 | 4.99 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 37.300 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 37.200 | 7.98 | 5.00 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 37.100 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 37.000 | 7.98 | 5.02 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93 | 36.900 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 36.800 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 36.700 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 36.600 | 7.98 | 5.03 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 36.500 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 36.400 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 36.300 | 7.98 | 5.04 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 36.200 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 36.100 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 36.000 | 7.98 | 5.05 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 35.900 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 35.800 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 35.700 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 35.600 | 7.98 | 5.06 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 35.500 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 35.400 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 35.300 | 7.98 | 5.07 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 35.200 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 35.100 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 35.000 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 34.900 | 7.98 | 5.08 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 34.800 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 34.700 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 34.600 | 7.98 | 5.09 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 34.500 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 34.400 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 34.300 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 34.200 | 7.98 | 5.10 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 34.100 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 34.000 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 33.900 | 7.98 | 5.11 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 33.800 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 33.700 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 33.600 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 33.500 | 7.98 | 5.12 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 33.400 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 33.300 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 33.200 | 7.98 | 5.13 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 33.100 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 33.000 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 32.900 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 32.800 | 7.98 | 5.14 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 32.700 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 32.600 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 32.500 | 7.98 | 5.15 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 32.400 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 32.300 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 32.200 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 32.100 | 7.98 | 5.16 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 32.000 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 31.900 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 31.800 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 31.700 | 7.98 | 5.17 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 31.600 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 31.500 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 31.400 | 7.98 | 5.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 31.300 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 31.200 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 31.100 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 31.000 | 7.98 | 5.19 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 30.900 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 30.800 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 30.700 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 30.600 | 7.98 | 5.20 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 30.500 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 30.400 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 30.300 | 7.98 | 5.21 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 30.200 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 30.100 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 30.000 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 29.900 | 7.98 | 5.22 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 29.800 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 29.700 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 29.600 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 29.500 | 7.98 | 5.23 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 29.400 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 29.300 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 29.200 | 7.98 | 5.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 1.86 | 1.86 | 0.08 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 4.49 | 0.06 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | | | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 38.000 | 26.92 | 0.00 | 7.04 | 171.78 | 6.16 | 5.56 | 0.00 | 5.56 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 83 | 37.900 | 26.92 | 0.00 | 7.02 | 171.51 | 6.16 | 5.56 | 0.00 | 5.56 | 0.00 | 1.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 84 | 37.800 | 26.92 | 0.00 | 7.01 | 171.24 | 6.16 | 5.55 | 0.00 | 5.55 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 85 | 37.700 | 26.92 | 0.00 | 6.99 | 170.97 | 6.15 | 5.54 | 0.00 | 5.54 | 0.00 | 1.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 86 | 37.600 | 26.92 | 0.00 | 6.98 | 170.70 | 6.15 | 5.54 | 0.00 | 5.54 | 0.00 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 87 | 37.500 | 26.92 | 0.00 | 6.96 | 170.43 | 6.15 | 5.53 | 0.00 | 5.53 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 88 | 37.400 | 26.92 | 0.00 | 6.94 | 170.16 | 6.14 | 5.53 | 0.00 | 5.53 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 89 | 37.300 | 26.92 | 0.00 | 6.93 | 169.89 | 6.14 | 5.52 | 0.00 | 5.52 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 90 | 37.200 | 26.92 | 0.00 | 6.91 | 169.63 | 6.14 | 5.52 | 0.00 | 5.52 | 0.00 | 1.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 91 | 37.100 | 26.92 | 0.00 | 6.92 | 168.37 | 6.12 | 5.51 | 0.00 | 5.51 | 0.00 | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 92 | 37.000 | 26.92 | 0.00 | 6.90 | 168.11 | 6.12 | 5.51 | 0.00 | 5.51 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 93 | 36.900 | 26.92 | 0.00 | 6.89 | 167.86 | 6.12 | 5.50 | 0.00 | 5.50 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 94 | 36.800 | 26.92 | 0.00 | 6.87 | 167.60 | 6.12 | 5.50 | 0.00 | 5.50 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 95 | 36.700 | 26.92 | 0.00 | 6.86 | 167.35 | 6.11 | 5.49 | 0.00 | 5.49 | 0.00 | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 96 | 36.600 | 26.92 | 0.00 | 6.84 | 167.09 | 6.11 | 5.49 | 0.00 | 5.49 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 36.500 | 26.92 | 0.00 | 6.83 | 166.84 | 6.11 | 5.48 | 0.00 | 5.48 | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 98 | 36.400 | 26.92 | 0.00 | 6.82 | 166.59 | 6.11 | 5.48 | 0.00 | 5.48 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 99 | 36.300 | 26.92 | 0.00 | 6.80 | 166.34 | 6.11 | 5.47 | 0.00 | 5.47 | 0.00 | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 100 | 36.200 | 26.92 | 0.00 | 6.79 | 166.09 | 6.11 | 5.47 | 0.00 | 5.47 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 101 | 36.100 | 26.92 | 0.00 | 6.77 | 165.84 | 6.10 | 5.46 | 0.00 | 5.46 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 102 | 36.000 | 26.92 | 0.00 | 6.76 | 165.59 | 6.10 | 5.46 | 0.00 | 5.46 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 103 | 35.900 | 26.92 | 0.00 | 6.74 | 165.35 | 6.10 | 5.45 | 0.00 | 5.45 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 104 | 35.800 | 26.92 | 0.00 | 6.73 | 165.10 | 6.10 | 5.45 | 0.00 | 5.45 | 0.00 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 105 | 35.700 | 26.92 | 0.00 | 6.71 | 164.86 | 6.10 | 5.44 | 0.00 | 5.44 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 106 | 35.600 | 26.92 | 0.00 | 6.70 | 164.62 | 6.10 | 5.44 | 0.00 | 5.44 | 0.00 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 107 | 35.500 | 26.92 | 0.00 | 6.69 | 164.38 | 6.10 | 5.43 | 0.00 | 5.43 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 108 | 35.400 | 26.92 | 0.00 | 6.67 | 164.13 | 6.10 | 5.43 | 0.00 | 5.43 | 0.00 | 1.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 109 | 35.300 | 26.92 | 0.00 | 6.66 | 163.89 | 6.10 | 5.42 | 0.00 | 5.42 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 110 | 35.200 | 26.92 | 0.00 | 6.64 | 163.66 | 6.09 | 5.42 | 0.00 | 5.42 | 0.00 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 111 | 35.100 | 26.92 | 0.00 | 6.63 | 163.42 | 6.09 | 5.42 | 0.00 | 5.42 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 112 | 35.000 | 26.92 | 0.00 | 6.62 | 163.18 | 6.09 | 5.41 | 0.00 | 5.41 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 113 | 34.900 | 26.92 | 0.00 | 6.60 | 162.94 | 6.09 | 5.41 | 0.00 | 5.41 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 114 | 34.800 | 26.92 | 0.00 | 6.59 | 162.71 | 6.09 | 5.40 | 0.00 | 5.40 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 115 | 34.700 | 26.92 | 0.00 | 6.57 | 162.48 | 6.09 | 5.40 | 0.00 | 5.40 | 0.00 | 1.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 116 | 34.600 | 26.92 | 0.00 | 6.56 | 162.24 | 6.09 | 5.39 | 0.00 | 5.39 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 117 | 34.500 | 26.92 | 0.00 | 6.55 | 162.01 | 6.09 | 5.39 | 0.00 | 5.39 | 0.00 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 118 | 34.400 | 26.92 | 0.00 | 6.53 | 161.78 | 6.09 | 5.38 | 0.00 | 5.38 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 119 | 34.300 | 26.92 | 0.00 | 6.52 | 161.55 | 6.09 | 5.38 | 0.00 | 5.38 | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 120 | 34.200 | 26.92 | 0.00 | 6.51 | 161.32 | 6.09 | 5.38 | 0.00 | 5.38 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 121 | 34.100 | 26.92 | 0.00 | 6.49 | 161.09 | 6.09 | 5.37 | 0.00 | 5.37 | 0.00 | 1.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 122 | 34.000 | 26.92 | 0.00 | 6.48 | 160.87 | 6.09 | 5.37 | 0.00 | 5.37 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 123 | 33.900 | 26.92 | 0.00 | 6.47 | 160.64 | 6.09 | 5.36 | 0.00 | 5.36 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 124 | 33.800 | 26.92 | 0.00 | 6.45 | 160.41 | 6.09 | 5.36 | 0.00 | 5.36 | 0.00 | 1.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 125 | 33.700 | 26.92 | 0.00 | 6.44 | 160.19 | 6.09 | 5.35 | 0.00 | 5.35 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 126 | 33.600 | 26.92 | 0.00 | 6.43 | 159.97 | 6.09 | 5.35 | 0.00 | 5.35 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 127 | 33.500 | 26.92 | 0.00 | 6.42 | 159.74 | 6.09 | 5.35 | 0.00 | 5.35 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 128 | 33.400 | 26.92 | 0.00 | 6.40 | 159.52 | 6.09 | 5.34 | 0.00 | 5.34 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 129 | 33.300 | 26.92 | 0.00 | 6.39 | 159.30 | 6.09 | 5.34 | 0.00 | 5.34 | 0.00 | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 130 | 33.200 | 26.92 | 0.00 | 6.38 | 159.08 | 6.09 | 5.33 | 0.00 | 5.33 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 131 | 33.100 | 26.92 | 0.00 | 6.36 | 158.86 | 6.09 | 5.33 | 0.00 | 5.33 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 132 | 33.000 | 26.92 | 0.00 | 6.35 | 158.64 | 6.09 | 5.33 | 0.00 | 5.33 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 133 | 32.900 | 26.92 | 0.00 | 6.34 | 158.43 | 6.09 | 5.32 | 0.00 | 5.32 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 134 | 32.800 | 26.92 | 0.00 | 6.33 | 158.21 | 6.09 | 5.32 | 0.00 | 5.32 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 135 | 32.700 | 26.92 | 0.00 | 6.31 | 157.99 | 6.09 | 5.31 | 0.00 | 5.31 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 136 | 32.600 | 26.92 | 0.00 | 6.30 | 157.78 | 6.09 | 5.31 | 0.00 | 5.31 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 137 | 32.500 | 26.92 | 0.00 | 6.29 | 157.56 | 6.09 | 5.31 | 0.00 | 5.31 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 138 | 32.400 | 26.92 | 0.00 | 6.28 | 157.35 | 6.09 | 5.30 | 0.00 | 5.30 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 139 | 32.300 | 26.92 | 0.00 | 6.26 | 157.14 | 6.09 | 5.30 | 0.00 | 5.30 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 140 | 32.200 | 26.92 | 0.00 | 6.25 | 156.93 | 6.09 | 5.29 | 0.00 | 5.29 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 141 | 32.100 | 26.92 | 0.00 | 6.24 | 156.72 | 6.09 | 5.29 | 0.00 | 5.29 | 0.00 | 1.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 142 | 32.000 | 26.92 | 0.00 | 6.23 | 156.51 | 6.09 | 5.29 | 0.00 | 5.29 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 143 | 31.900 | 26.92 | 0.00 | 6.21 | 156.30 | 6.09 | 5.28 | 0.00 | 5.28 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 144 | 31.800 | 26.92 | 0.00 | 6.20 | 156.09 | 6.09 | 5.28 | 0.00 | 5.28 | 0.00 | 1.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 145 | 31.700 | 26.92 | 0.00 | 6.19 | 155.88 | 6.09 | 5.28 | 0.00 | 5.28 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 146 | 31.600 | 26.92 | 0.00 | 6.18 | 155.68 | 6.09 | 5.27 | 0.00 | 5.27 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 147 | 31.500 | 26.92 | 0.00 | 6.17 | 155.47 | 6.09 | 5.27 | 0.00 | 5.27 | 0.00 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 148 | 31.400 | 26.92 | 0.00 | 6.15 | 155.27 | 6.09 | 5.26 | 0.00 | 5.26 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | 31.300 | 26.92 | 0.00 | 6.14 | 155.06 | 6.09 | 5.26 | 0.00 | 5.26 | 0.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 150 | 31.200 | 26.92 | 0.00 | 6.13 | 154.86 | 6.09 | 5.26 | 0.00 | 5.26 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 151 | 31.100 | 26.92 | 0.00 | 6.12 | 154.66 | 6.09 | 5.25 | 0.00 | 5.25 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 152 | 31.000 | 26.92 | 0.00 | 6.11 | 154.45 | 6.09 | 5.25 | 0.00 | 5.25 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 153 | 30.900 | 26.92 | 0.00 | 6.09 | 154.25 | 6.09 | 5.25 | 0.00 | 5.25 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 154 | 30.800 | 26.92 | 0.00 | 6.08 | 154.05 | 6.09 | 5.24 | 0.00 | 5.24 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 155 | 30.700 | 26.92 | 0.00 | 6.07 | 153.85 | 6.09 | 5.24 | 0.00 | 5.24 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 156 | 30.600 | 26.92 | 0.00 | 6.06 | 153.66 | 6.09 | 5.23 | 0.00 | 5.23 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 157 | 30.500 | 26.92 | 0.00 | 6.05 | 153.46 | 6.10 | 5.23 | 0.00 | 5.23 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 158 | 30.400 | 26.92 | 0.00 | 6.04 | 153.26 | 6.10 | 5.23 | 0.00 | 5.23 | 0.00 | 1.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 159 | 30.300 | 26.92 | 0.00 | 6.02 | 153.06 | 6.10 | 5.22 | 0.00 | 5.22 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 160 | 30.200 | 26.92 | 0.00 | 6.01 | 152.87 | 6.10 | 5.22 | 0.00 | 5.22 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 161 | 30.100 | 26.92 | 0.00 | 6.00 | 152.67 | 6.10 | 5.22 | 0.00 | 5.22 | 0.00 | 1.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 162 | 30.000 | 26.92 | 0.00 | 5.99 | 152.48 | 6.10 | 5.21 | 0.00 | 5.21 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 163 | 29.900 | 26.92 | 0.00 | 5.98 | 152.29 | 6.10 | 5.21 | 0.00 | 5.21 | 0.00 | 1.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 164 | 29.800 | 26.92 | 0.00 | 5.97 | 152.09 | 6.10 | 5.21 | 0.00 | 5.21 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 165 | 29.700 | 26.92 | 0.00 | 5.96 | 151.90 | 6.10 | 5.20 | 0.00 | 5.20 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 166 | 29.600 | 26.92 | 0.00 | 5.95 | 151.71 | 6.10 | 5.20 | 0.00 | 5.20 | 0.00 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 167 | 29.500 | 26.92 | 0.00 | 5.93 | 151.52 | 6.10 | 5.20 | 0.00 | 5.20 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 168 | 29.400 | 26.92 | 0.00 | 5.92 | 151.33 | 6.10 | 5.19 | 0.00 | 5.19 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 169 | 29.300 | 26.92 | 0.00 | 5.91 | 151.14 | 6.10 | 5.19 | 0.00 | 5.19 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 170 | 29.200 | 26.92 | 0.00 | 5.90 | 150.95 | 6.10 | 5.19 | 0.00 | 5.19 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 4 SITE 5 - SITE 6 IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 6.10 | 5.19 | 0.00 | 5.19 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.20 | 29.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 172 | 29.10 | 29.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 173 | 29.00 | 28.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 174 | 28.90 | 28.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 175 | 28.80 | 28.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 176 | 28.70 | 28.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 177 | 28.60 | 28.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 178 | 28.50 | 28.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 179 | 28.40 | 28.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 180 | 28.30 | 28.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | 28.20 | 28.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 182 | 28.10 | 28.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 183 | 28.00 | 27.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 184 | 27.90 | 27.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 185 | 27.80 | 27.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 186 | 27.70 | 27.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 187 | 27.60 | 27.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 188 | 27.50 | 27.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 189 | 27.40 | 27.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 190 | 27.30 | 27.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 191 | 27.20 | 27.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 192 | 27.10 | 27.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 193 | 27.00 | 26.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 194 | 26.90 | 26.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 195 | 26.80 | 26.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 196 | 26.70 | 26.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 197 | 26.60 | 26.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 198 | 26.50 | 26.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 199 | 26.40 | 26.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 200 | 26.30 | 26.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 201 | 26.20 | 26.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 202 | 26.10 | 26.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 203 | 26.00 | 25.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 204 | 25.90 | 25.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 205 | 25.80 | 25.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 206 | 25.70 | 25.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 207 | 25.60 | 25.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 208 | 25.50 | 25.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 209 | 25.40 | 25.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 210 | 25.30 | 25.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 211 | 25.20 | 25.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 212 | 25.10 | 25.00 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 213 | 25.00 | 24.90 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 214 | 24.90 | 24.80 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 215 | 24.80 | 24.70 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 216 | 24.70 | 24.60 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 217 | 24.60 | 24.50 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 218 | 24.50 | 24.40 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 219 | 24.40 | 24.30 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 220 | 24.30 | 24.20 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| 221 | 24.20 | 24.10 | 0.26660 | 4.1 | 0.07502 | 0.02 | 0.44 | 8.08 | 355.39 | 807.70 | 3.55 | 0.00 | 0.000 | 0.000 | 0.075 |
| TOT | | | | | | 0.79 | | | 18124.79 | 41192.68 | | | | | |
| AVG | | | | | 0.0750 | | 0.44 | 8.08 | | | 3.55 | | | | |
| CUM | | | | | | 1.30 | | | | | | | | | |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 29.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 28.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 28.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 28.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 28.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 28.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 28.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 28.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 28.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 28.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 28.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 27.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 27.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 27.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 27.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 27.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 27.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 27.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 27.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 27.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 27.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 26.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 26.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 26.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 26.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 26.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 26.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 26.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 26.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 26.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 26.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 25.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 25.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 25.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 25.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 25.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 25.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 25.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 25.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 25.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 25.000 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 24.900 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 24.800 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 24.700 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 24.600 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 24.500 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 24.400 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 24.300 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 24.200 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 24.100 | 7.98 | 2.25 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 1.92 | 1.92 | 0.11 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AVG 20 DEG C RATE 1.98 0.07 0.15 0.00 0.00 0.00 0.00 1.24 0.07 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | 29.100 | 26.92 | 0.00 | 5.90 | 150.95 | 6.09 | 5.19 | 0.00 | 5.19 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 172 | 29.000 | 26.92 | 0.00 | 5.90 | 150.95 | 6.08 | 5.19 | 0.00 | 5.19 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 173 | 28.900 | 26.92 | 0.00 | 5.90 | 150.95 | 6.07 | 5.19 | 0.00 | 5.19 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 174 | 28.800 | 26.92 | 0.00 | 5.90 | 150.95 | 6.06 | 5.19 | 0.00 | 5.19 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 175 | 28.700 | 26.92 | 0.00 | 5.90 | 150.95 | 6.05 | 5.19 | 0.00 | 5.19 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 176 | 28.600 | 26.92 | 0.00 | 5.90 | 150.95 | 6.04 | 5.19 | 0.00 | 5.19 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 177 | 28.500 | 26.92 | 0.00 | 5.90 | 150.95 | 6.03 | 5.19 | 0.00 | 5.19 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 178 | 28.400 | 26.92 | 0.00 | 5.90 | 150.95 | 6.02 | 5.18 | 0.00 | 5.18 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 179 | 28.300 | 26.92 | 0.00 | 5.90 | 150.95 | 6.01 | 5.18 | 0.00 | 5.18 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 180 | 28.200 | 26.92 | 0.00 | 5.90 | 150.95 | 6.00 | 5.18 | 0.00 | 5.18 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 181 | 28.100 | 26.92 | 0.00 | 5.90 | 150.95 | 6.00 | 5.18 | 0.00 | 5.18 | 0.00 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 182 | 28.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.99 | 5.18 | 0.00 | 5.18 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 183 | 27.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.98 | 5.18 | 0.00 | 5.18 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 184 | 27.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.97 | 5.18 | 0.00 | 5.18 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 185 | 27.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.97 | 5.18 | 0.00 | 5.18 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 186 | 27.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.96 | 5.18 | 0.00 | 5.18 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 187 | 27.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.95 | 5.18 | 0.00 | 5.18 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 188 | 27.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.95 | 5.18 | 0.00 | 5.18 | 0.00 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 189 | 27.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.94 | 5.18 | 0.00 | 5.18 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 190 | 27.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.93 | 5.18 | 0.00 | 5.18 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 191 | 27.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.93 | 5.18 | 0.00 | 5.18 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 192 | 27.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.92 | 5.18 | 0.00 | 5.18 | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 193 | 26.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.92 | 5.18 | 0.00 | 5.18 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 194 | 26.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.91 | 5.18 | 0.00 | 5.18 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 195 | 26.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.91 | 5.18 | 0.00 | 5.18 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 196 | 26.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.90 | 5.18 | 0.00 | 5.18 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 197 | 26.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.90 | 5.18 | 0.00 | 5.18 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 198 | 26.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.89 | 5.18 | 0.00 | 5.18 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 199 | 26.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.89 | 5.18 | 0.00 | 5.18 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 200 | 26.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.88 | 5.18 | 0.00 | 5.18 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 201 | 26.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.88 | 5.18 | 0.00 | 5.18 | 0.00 | 1.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 202 | 26.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.88 | 5.18 | 0.00 | 5.18 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 203 | 25.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.87 | 5.18 | 0.00 | 5.18 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 204 | 25.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.87 | 5.18 | 0.00 | 5.18 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 205 | 25.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.87 | 5.18 | 0.00 | 5.18 | 0.00 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 206 | 25.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.86 | 5.18 | 0.00 | 5.18 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 207 | 25.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.86 | 5.18 | 0.00 | 5.18 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 208 | 25.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.86 | 5.18 | 0.00 | 5.18 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 209 | 25.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.85 | 5.18 | 0.00 | 5.18 | 0.00 | 1.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 210 | 25.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.85 | 5.18 | 0.00 | 5.18 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 211 | 25.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.85 | 5.18 | 0.00 | 5.18 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 212 | 25.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.84 | 5.18 | 0.00 | 5.18 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 213 | 24.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.84 | 5.18 | 0.00 | 5.18 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 214 | 24.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.84 | 5.18 | 0.00 | 5.18 | 0.00 | 1.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 215 | 24.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.84 | 5.18 | 0.00 | 5.18 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 216 | 24.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.83 | 5.18 | 0.00 | 5.18 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 217 | 24.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.83 | 5.18 | 0.00 | 5.18 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 218 | 24.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.83 | 5.18 | 0.00 | 5.18 | 0.00 | 1.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 219 | 24.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.83 | 5.18 | 0.00 | 5.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 220 | 24.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.83 | 5.18 | 0.00 | 5.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 221 | 24.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.82 | 5.18 | 0.00 | 5.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 5 SITE 6 - SITE 8 IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | UPR RCH | 0.26660 | 26.92 | 0.00 | 5.90 | 150.95 | 5.82 | 5.18 | 0.00 | 5.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EACH | INCR | -0.00005 | | | | | | | | | | | | | | | | |
| 239 | WSTLD | 0.00280 | 26.92 | 0.05 | 11.50 | 123.40 | 5.00 | 4.55 | 0.00 | 4.55 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.10 | 24.00 | 0.26655 | 4.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 223 | 24.00 | 23.90 | 0.26650 | 4.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 224 | 23.90 | 23.80 | 0.26644 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 225 | 23.80 | 23.70 | 0.26639 | 4.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 226 | 23.70 | 23.60 | 0.26634 | 4.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 227 | 23.60 | 23.50 | 0.26629 | 4.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 228 | 23.50 | 23.40 | 0.26624 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 229 | 23.40 | 23.30 | 0.26618 | 4.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 230 | 23.30 | 23.20 | 0.26613 | 4.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 231 | 23.20 | 23.10 | 0.26608 | 4.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 232 | 23.10 | 23.00 | 0.26603 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 233 | 23.00 | 22.90 | 0.26598 | 4.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 234 | 22.90 | 22.80 | 0.26592 | 4.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 235 | 22.80 | 22.70 | 0.26587 | 4.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 236 | 22.70 | 22.60 | 0.26582 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 237 | 22.60 | 22.50 | 0.26577 | 4.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 238 | 22.50 | 22.40 | 0.26572 | 4.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 239 | 22.40 | 22.30 | 0.26846 | 5.1 | 0.04091 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 240 | 22.30 | 22.20 | 0.26841 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 241 | 22.20 | 22.10 | 0.26836 | 5.1 | 0.04090 | 0.03 | 0.59 | 11.07 | 656.20 | 1106.57 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 242 | 22.10 | 22.00 | 0.26831 | 5.1 | 0.04089 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.56 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 243 | 22.00 | 21.90 | 0.26826 | 5.1 | 0.04088 | 0.03 | 0.59 | 11.07 | 656.19 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 244 | 21.90 | 21.80 | 0.26820 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.55 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 245 | 21.80 | 21.70 | 0.26815 | 5.1 | 0.04087 | 0.03 | 0.59 | 11.07 | 656.18 | 1106.54 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 246 | 21.70 | 21.60 | 0.26810 | 5.1 | 0.04086 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.53 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 247 | 21.60 | 21.50 | 0.26805 | 5.1 | 0.04085 | 0.03 | 0.59 | 11.07 | 656.17 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 248 | 21.50 | 21.40 | 0.26800 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.52 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 249 | 21.40 | 21.30 | 0.26794 | 5.1 | 0.04084 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.51 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 250 | 21.30 | 21.20 | 0.26789 | 5.1 | 0.04083 | 0.03 | 0.59 | 11.07 | 656.16 | 1106.50 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 251 | 21.20 | 21.10 | 0.26784 | 5.1 | 0.04082 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 252 | 21.10 | 21.00 | 0.26779 | 5.1 | 0.04081 | 0.03 | 0.59 | 11.06 | 656.15 | 1106.49 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 253 | 21.00 | 20.90 | 0.26774 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.48 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 254 | 20.90 | 20.80 | 0.26768 | 5.1 | 0.04080 | 0.03 | 0.59 | 11.06 | 656.14 | 1106.47 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 255 | 20.80 | 20.70 | 0.26763 | 5.1 | 0.04079 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 256 | 20.70 | 20.60 | 0.26758 | 5.1 | 0.04078 | 0.03 | 0.59 | 11.06 | 656.13 | 1106.46 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 257 | 20.60 | 20.50 | 0.26753 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.45 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 258 | 20.50 | 20.40 | 0.26748 | 5.1 | 0.04077 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 259 | 20.40 | 20.30 | 0.26742 | 5.1 | 0.04076 | 0.03 | 0.59 | 11.06 | 656.12 | 1106.44 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 260 | 20.30 | 20.20 | 0.26737 | 5.1 | 0.04075 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.43 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 261 | 20.20 | 20.10 | 0.26732 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.11 | 1106.42 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 262 | 20.10 | 20.00 | 0.26727 | 5.1 | 0.04074 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 263 | 20.00 | 19.90 | 0.26722 | 5.1 | 0.04073 | 0.03 | 0.59 | 11.06 | 656.10 | 1106.41 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 264 | 19.90 | 19.80 | 0.26716 | 5.1 | 0.04072 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.40 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 265 | 19.80 | 19.70 | 0.26711 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.09 | 1106.39 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 266 | 19.70 | 19.60 | 0.26706 | 5.1 | 0.04071 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 267 | 19.60 | 19.50 | 0.26701 | 5.1 | 0.04070 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.38 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 268 | 19.50 | 19.40 | 0.26696 | 5.1 | 0.04069 | 0.03 | 0.59 | 11.06 | 656.08 | 1106.37 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 269 | 19.40 | 19.30 | 0.26691 | 5.1 | 0.04068 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.36 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 270 | 19.30 | 19.20 | 0.26685 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.07 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 271 | 19.20 | 19.10 | 0.26680 | 5.1 | 0.04067 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.35 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 272 | 19.10 | 19.00 | 0.26675 | 5.1 | 0.04066 | 0.03 | 0.59 | 11.06 | 656.06 | 1106.34 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 273 | 19.00 | 18.90 | 0.26670 | 5.1 | 0.04065 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.33 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 274 | 18.90 | 18.80 | 0.26665 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 275 | 18.80 | 18.70 | 0.26659 | 5.1 | 0.04064 | 0.03 | 0.59 | 11.06 | 656.05 | 1106.32 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 276 | 18.70 | 18.60 | 0.26654 | 5.1 | 0.04063 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.31 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 277 | 18.60 | 18.50 | 0.26649 | 5.1 | 0.04062 | 0.03 | 0.59 | 11.06 | 656.04 | 1106.30 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 278 | 18.50 | 18.40 | 0.26644 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 279 | 18.40 | 18.30 | 0.26639 | 5.1 | 0.04061 | 0.03 | 0.59 | 11.06 | 656.03 | 1106.29 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 280 | 18.30 | 18.20 | 0.26633 | 5.1 | 0.04060 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.28 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 281 | 18.20 | 18.10 | 0.26628 | 5.1 | 0.04059 | 0.03 | 0.59 | 11.06 | 656.02 | 1106.27 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 282 | 18.10 | 18.00 | 0.26623 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 283 | 18.00 | 17.90 | 0.26618 | 5.1 | 0.04058 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.26 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 284 | 17.90 | 17.80 | 0.26613 | 5.1 | 0.04057 | 0.03 | 0.59 | 11.06 | 656.01 | 1106.25 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 285 | 17.80 | 17.70 | 0.26607 | 5.1 | 0.04056 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.24 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 286 | 17.70 | 17.60 | 0.26602 | 5.1 | 0.04055 | 0.03 | 0.59 | 11.06 | 656.00 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 287 | 17.60 | 17.50 | 0.26597 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.23 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 288 | 17.50 | 17.40 | 0.26592 | 5.1 | 0.04054 | 0.03 | 0.59 | 11.06 | 655.99 | 1106.22 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 289 | 17.40 | 17.30 | 0.26587 | 5.1 | 0.04053 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.21 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 290 | 17.30 | 17.20 | 0.26581 | 5.1 | 0.04052 | 0.03 | 0.59 | 11.06 | 655.98 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 291 | 17.20 | 17.10 | 0.26576 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.20 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 292 | 17.10 | 17.00 | 0.26571 | 5.1 | 0.04051 | 0.03 | 0.59 | 11.06 | 655.97 | 1106.19 | 6.56 | 0.00 | 0.000 | 0.000 | 0.041 |
| 293 | 17.00 | 16.90 | 0.26566 | 5.1 | 0.04050 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.18 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 294 | 16.90 | 16.80 | 0.26561 | 5.1 | 0.04049 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 295 | 16.80 | 16.70 | 0.26555 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.96 | 1106.17 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 296 | 16.70 | 16.60 | 0.26550 | 5.1 | 0.04048 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.16 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 297 | 16.60 | 16.50 | 0.26545 | 5.1 | 0.04047 | 0.03 | 0.59 | 11.06 | 655.95 | 1106.15 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 298 | 16.50 | 16.40 | 0.26540 | 5.1 | 0.04046 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 299 | 16.40 | 16.30 | 0.26535 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.94 | 1106.14 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 300 | 16.30 | 16.20 | 0.26529 | 5.1 | 0.04045 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.13 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 301 | 16.20 | 16.10 | 0.26524 | 5.1 | 0.04044 | 0.03 | 0.59 | 11.06 | 655.93 | 1106.12 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 302 | 16.10 | 16.00 | 0.26519 | 5.1 | 0.04043 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 303 | 16.00 | 15.90 | 0.26514 | 5.1 | 0.04042 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.11 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 304 | 15.90 | 15.80 | 0.26509 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.92 | 1106.10 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 305 | 15.80 | 15.70 | 0.26503 | 5.1 | 0.04041 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.09 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 306 | 15.70 | 15.60 | 0.26498 | 5.1 | 0.04040 | 0.03 | 0.59 | 11.06 | 655.91 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 307 | 15.60 | 15.50 | 0.26493 | 5.1 | 0.04039 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.08 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 308 | 15.50 | 15.40 | 0.26488 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.90 | 1106.07 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 309 | 15.40 | 15.30 | 0.26483 | 5.1 | 0.04038 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.06 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 310 | 15.30 | 15.20 | 0.26477 | 5.1 | 0.04037 | 0.03 | 0.59 | 11.06 | 655.89 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 311 | 15.20 | 15.10 | 0.26472 | 5.1 | 0.04036 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.05 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 312 | 15.10 | 15.00 | 0.26467 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.04 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 313 | 15.00 | 14.90 | 0.26462 | 5.1 | 0.04035 | 0.03 | 0.59 | 11.06 | 655.88 | 1106.03 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 314 | 14.90 | 14.80 | 0.26457 | 5.1 | 0.04034 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 315 | 14.80 | 14.70 | 0.26451 | 5.1 | 0.04033 | 0.03 | 0.59 | 11.06 | 655.87 | 1106.02 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 316 | 14.70 | 14.60 | 0.26446 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.01 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 317 | 14.60 | 14.50 | 0.26441 | 5.1 | 0.04032 | 0.03 | 0.59 | 11.06 | 655.86 | 1106.00 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 318 | 14.50 | 14.40 | 0.26436 | 5.1 | 0.04031 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.99 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 319 | 14.40 | 14.30 | 0.26431 | 5.1 | 0.04030 | 0.03 | 0.59 | 11.06 | 655.85 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 320 | 14.30 | 14.20 | 0.26425 | 5.1 | 0.04029 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.98 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 321 | 14.20 | 14.10 | 0.26420 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.97 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 322 | 14.10 | 14.00 | 0.26415 | 5.1 | 0.04028 | 0.03 | 0.59 | 11.06 | 655.84 | 1105.96 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 323 | 14.00 | 13.90 | 0.26410 | 5.1 | 0.04027 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 324 | 13.90 | 13.80 | 0.26405 | 5.1 | 0.04026 | 0.03 | 0.59 | 11.06 | 655.83 | 1105.95 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 325 | 13.80 | 13.70 | 0.26399 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.94 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 326 | 13.70 | 13.60 | 0.26394 | 5.1 | 0.04025 | 0.03 | 0.59 | 11.06 | 655.82 | 1105.93 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 327 | 13.60 | 13.50 | 0.26389 | 5.1 | 0.04024 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 328 | 13.50 | 13.40 | 0.26384 | 5.1 | 0.04023 | 0.03 | 0.59 | 11.06 | 655.81 | 1105.92 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 329 | 13.40 | 13.30 | 0.26379 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.91 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 330 | 13.30 | 13.20 | 0.26373 | 5.1 | 0.04022 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.90 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 331 | 13.20 | 13.10 | 0.26368 | 5.1 | 0.04021 | 0.03 | 0.59 | 11.06 | 655.80 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 332 | 13.10 | 13.00 | 0.26363 | 5.1 | 0.04020 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.89 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 333 | 13.00 | 12.90 | 0.26358 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.79 | 1105.88 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 334 | 12.90 | 12.80 | 0.26353 | 5.1 | 0.04019 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.87 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 335 | 12.80 | 12.70 | 0.26347 | 5.1 | 0.04018 | 0.03 | 0.59 | 11.06 | 655.78 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 336 | 12.70 | 12.60 | 0.26342 | 5.1 | 0.04017 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.86 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 337 | 12.60 | 12.50 | 0.26337 | 5.1 | 0.04016 | 0.03 | 0.59 | 11.06 | 655.77 | 1105.85 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 338 | 12.50 | 12.40 | 0.26332 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.84 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 339 | 12.40 | 12.30 | 0.26327 | 5.1 | 0.04015 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 340 | 12.30 | 12.20 | 0.26321 | 5.1 | 0.04014 | 0.03 | 0.59 | 11.06 | 655.76 | 1105.83 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 341 | 12.20 | 12.10 | 0.26316 | 5.1 | 0.04013 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.82 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 342 | 12.10 | 12.00 | 0.26311 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.75 | 1105.81 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 343 | 12.00 | 11.90 | 0.26306 | 5.1 | 0.04012 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 344 | 11.90 | 11.80 | 0.26301 | 5.1 | 0.04011 | 0.03 | 0.59 | 11.06 | 655.74 | 1105.80 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 345 | 11.80 | 11.70 | 0.26295 | 5.1 | 0.04010 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.79 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 346 | 11.70 | 11.60 | 0.26290 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.73 | 1105.78 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 347 | 11.60 | 11.50 | 0.26285 | 5.1 | 0.04009 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 348 | 11.50 | 11.40 | 0.26280 | 5.1 | 0.04008 | 0.03 | 0.59 | 11.06 | 655.72 | 1105.77 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 349 | 11.40 | 11.30 | 0.26275 | 5.1 | 0.04007 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.76 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 350 | 11.30 | 11.20 | 0.26270 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.75 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 351 | 11.20 | 11.10 | 0.26264 | 5.1 | 0.04006 | 0.03 | 0.59 | 11.06 | 655.71 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 352 | 11.10 | 11.00 | 0.26259 | 5.1 | 0.04005 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.74 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 353 | 11.00 | 10.90 | 0.26254 | 5.1 | 0.04004 | 0.03 | 0.59 | 11.06 | 655.70 | 1105.73 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 354 | 10.90 | 10.80 | 0.26249 | 5.1 | 0.04003 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.72 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 355 | 10.80 | 10.70 | 0.26244 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.69 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 356 | 10.70 | 10.60 | 0.26238 | 5.1 | 0.04002 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.71 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 357 | 10.60 | 10.50 | 0.26233 | 5.1 | 0.04001 | 0.03 | 0.59 | 11.06 | 655.68 | 1105.70 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 358 | 10.50 | 10.40 | 0.26228 | 5.1 | 0.04000 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.69 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 359 | 10.40 | 10.30 | 0.26223 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 360 | 10.30 | 10.20 | 0.26218 | 5.1 | 0.03999 | 0.03 | 0.59 | 11.06 | 655.67 | 1105.68 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 361 | 10.20 | 10.10 | 0.26212 | 5.1 | 0.03998 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.67 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 362 | 10.10 | 10.00 | 0.26207 | 5.1 | 0.03997 | 0.03 | 0.59 | 11.06 | 655.66 | 1105.66 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 363 | 10.00 | 9.90 | 0.26202 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.65 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 364 | 9.90 | 9.80 | 0.26197 | 5.1 | 0.03996 | 0.03 | 0.59 | 11.06 | 655.65 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 365 | 9.80 | 9.70 | 0.26192 | 5.1 | 0.03995 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.64 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 366 | 9.70 | 9.60 | 0.26186 | 5.1 | 0.03994 | 0.03 | 0.59 | 11.06 | 655.64 | 1105.63 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 367 | 9.60 | 9.50 | 0.26181 | 5.1 | 0.03993 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.62 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 368 | 9.50 | 9.40 | 0.26176 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.63 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 369 | 9.40 | 9.30 | 0.26171 | 5.1 | 0.03992 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.61 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 370 | 9.30 | 9.20 | 0.26166 | 5.1 | 0.03991 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.60 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 371 | 9.20 | 9.10 | 0.26160 | 5.1 | 0.03990 | 0.03 | 0.59 | 11.06 | 655.62 | 1105.59 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 372 | 9.10 | 9.00 | 0.26155 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| 373 | 9.00 | 8.90 | 0.26150 | 5.1 | 0.03989 | 0.03 | 0.59 | 11.06 | 655.61 | 1105.58 | 6.56 | 0.00 | 0.000 | 0.000 | 0.040 |
| TOT | | | | | | 4.35 | | | 99699.49 | 168127.31 | | | | | |
| AVG | | | | | 0.0404 | | 0.59 | 11.06 | | | 6.56 | | | | |
| CUM | | | | | | 5.65 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 23.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 23.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 23.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 23.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 23.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 23.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 23.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 23.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 23.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 23.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 22.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 234 | 22.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 22.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 22.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 22.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 22.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 22.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 22.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 22.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 22.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 21.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 21.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 245 | 21.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 246 | 21.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 247 | 21.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | 21.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 249 | 21.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250 | 21.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 251 | 21.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | 21.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 253 | 20.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 254 | 20.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 255 | 20.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | 20.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 257 | 20.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 258 | 20.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 259 | 20.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 260 | 20.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 261 | 20.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 262 | 20.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 263 | 19.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 264 | 19.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 265 | 19.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 266 | 19.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 267 | 19.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 268 | 19.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 269 | 19.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 270 | 19.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 271 | 19.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 272 | 19.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 273 | 18.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 274 | 18.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275 | 18.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 276 | 18.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 277 | 18.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 278 | 18.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 18.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 280 | 18.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 281 | 18.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | 18.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 283 | 17.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 284 | 17.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | 17.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 286 | 17.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 287 | 17.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 288 | 17.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 289 | 17.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | 17.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 291 | 17.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 292 | 17.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 293 | 16.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 294 | 16.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 295 | 16.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 296 | 16.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 297 | 16.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 298 | 16.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 299 | 16.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | 16.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 301 | 16.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 302 | 16.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 303 | 15.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 304 | 15.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 305 | 15.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 306 | 15.600 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 307 | 15.500 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 308 | 15.400 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 309 | 15.300 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 310 | 15.200 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 311 | 15.100 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 312 | 15.000 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313 | 14.900 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 314 | 14.800 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 315 | 14.700 | 7.98 | 1.46 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316 | 14.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 317 | 14.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | 14.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | 14.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 320 | 14.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | 14.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | 14.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | 13.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 324 | 13.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325 | 13.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 326 | 13.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | 13.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 328 | 13.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 329 | 13.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 330 | 13.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 331 | 13.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 332 | 13.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 333 | 12.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 334 | 12.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 335 | 12.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 336 | 12.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 337 | 12.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 338 | 12.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 339 | 12.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 340 | 12.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 341 | 12.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 342 | 12.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 343 | 11.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 344 | 11.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | 11.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 346 | 11.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 347 | 11.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 348 | 11.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 349 | 11.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350 | 11.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 351 | 11.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 11.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 353 | 10.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 10.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 355 | 10.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 356 | 10.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 357 | 10.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 358 | 10.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 359 | 10.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 360 | 10.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 361 | 10.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 362 | 10.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 363 | 9.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | 9.800 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 365 | 9.700 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | 9.600 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | 9.500 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | 9.400 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 369 | 9.300 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 370 | 9.200 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 9.100 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | 9.000 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 8.900 | 7.98 | 1.45 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 1.78 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.28 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 24.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.81 | 5.18 | 0.00 | 5.18 | 0.00 | 1.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 223 | 23.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.80 | 5.18 | 0.00 | 5.18 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 224 | 23.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.78 | 5.18 | 0.00 | 5.18 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 225 | 23.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.77 | 5.18 | 0.00 | 5.18 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 226 | 23.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.76 | 5.19 | 0.00 | 5.19 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 227 | 23.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.75 | 5.19 | 0.00 | 5.19 | 0.00 | 1.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 228 | 23.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.74 | 5.19 | 0.00 | 5.19 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 229 | 23.300 | 26.92 | 0.00 | 5.90 | 150.95 | 5.73 | 5.19 | 0.00 | 5.19 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 230 | 23.200 | 26.92 | 0.00 | 5.90 | 150.95 | 5.72 | 5.19 | 0.00 | 5.19 | 0.00 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 231 | 23.100 | 26.92 | 0.00 | 5.90 | 150.95 | 5.71 | 5.20 | 0.00 | 5.20 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 232 | 23.000 | 26.92 | 0.00 | 5.90 | 150.95 | 5.70 | 5.20 | 0.00 | 5.20 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 233 | 22.900 | 26.92 | 0.00 | 5.90 | 150.95 | 5.69 | 5.20 | 0.00 | 5.20 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 234 | 22.800 | 26.92 | 0.00 | 5.90 | 150.95 | 5.68 | 5.20 | 0.00 | 5.20 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 235 | 22.700 | 26.92 | 0.00 | 5.90 | 150.95 | 5.68 | 5.20 | 0.00 | 5.20 | 0.00 | 1.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 236 | 22.600 | 26.92 | 0.00 | 5.90 | 150.95 | 5.67 | 5.20 | 0.00 | 5.20 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 237 | 22.500 | 26.92 | 0.00 | 5.90 | 150.95 | 5.66 | 5.21 | 0.00 | 5.21 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 238 | 22.400 | 26.92 | 0.00 | 5.90 | 150.95 | 5.65 | 5.21 | 0.00 | 5.21 | 0.00 | 1.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 239 | 22.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.64 | 5.20 | 0.00 | 5.20 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 240 | 22.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.64 | 5.20 | 0.00 | 5.20 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 241 | 22.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.63 | 5.21 | 0.00 | 5.21 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 242 | 22.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.62 | 5.21 | 0.00 | 5.21 | 0.00 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 243 | 21.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.62 | 5.21 | 0.00 | 5.21 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 244 | 21.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.61 | 5.21 | 0.00 | 5.21 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 245 | 21.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.61 | 5.21 | 0.00 | 5.21 | 0.00 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 246 | 21.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.60 | 5.22 | 0.00 | 5.22 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 247 | 21.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.60 | 5.22 | 0.00 | 5.22 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 248 | 21.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.60 | 5.22 | 0.00 | 5.22 | 0.00 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 249 | 21.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.59 | 5.22 | 0.00 | 5.22 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 250 | 21.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.59 | 5.22 | 0.00 | 5.22 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 251 | 21.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.58 | 5.22 | 0.00 | 5.22 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 252 | 21.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.58 | 5.23 | 0.00 | 5.23 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 253 | 20.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.58 | 5.23 | 0.00 | 5.23 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 254 | 20.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.57 | 5.23 | 0.00 | 5.23 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 255 | 20.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.57 | 5.23 | 0.00 | 5.23 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 256 | 20.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.57 | 5.23 | 0.00 | 5.23 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 257 | 20.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.56 | 5.23 | 0.00 | 5.23 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 258 | 20.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.56 | 5.24 | 0.00 | 5.24 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 259 | 20.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.56 | 5.24 | 0.00 | 5.24 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 260 | 20.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.56 | 5.24 | 0.00 | 5.24 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 261 | 20.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.55 | 5.24 | 0.00 | 5.24 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 262 | 20.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.55 | 5.24 | 0.00 | 5.24 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 263 | 19.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.55 | 5.24 | 0.00 | 5.24 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 264 | 19.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.55 | 5.25 | 0.00 | 5.25 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 265 | 19.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.25 | 0.00 | 5.25 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 266 | 19.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.25 | 0.00 | 5.25 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 267 | 19.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.25 | 0.00 | 5.25 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 268 | 19.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.25 | 0.00 | 5.25 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 269 | 19.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.25 | 0.00 | 5.25 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 270 | 19.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.26 | 0.00 | 5.26 | 0.00 | 1.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 271 | 19.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.26 | 0.00 | 5.26 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 272 | 19.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.26 | 0.00 | 5.26 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 273 | 18.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.26 | 0.00 | 5.26 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 274 | 18.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.26 | 0.00 | 5.26 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 275 | 18.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.26 | 0.00 | 5.26 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 276 | 18.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.27 | 0.00 | 5.27 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 277 | 18.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 278 | 18.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 279 | 18.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 280 | 18.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 281 | 18.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 282 | 18.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.27 | 0.00 | 5.27 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 283 | 17.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.28 | 0.00 | 5.28 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 284 | 17.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.28 | 0.00 | 5.28 | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 285 | 17.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.28 | 0.00 | 5.28 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 286 | 17.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.28 | 0.00 | 5.28 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 287 | 17.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.28 | 0.00 | 5.28 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 288 | 17.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.28 | 0.00 | 5.28 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 289 | 17.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.28 | 0.00 | 5.28 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 290 | 17.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 291 | 17.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 292 | 17.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 293 | 16.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 294 | 16.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 295 | 16.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.29 | 0.00 | 5.29 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 296 | 16.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.30 | 0.00 | 5.30 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 297 | 16.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.30 | 0.00 | 5.30 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 298 | 16.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.30 | 0.00 | 5.30 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 299 | 16.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.30 | 0.00 | 5.30 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 300 | 16.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.30 | 0.00 | 5.30 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 301 | 16.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.30 | 0.00 | 5.30 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 302 | 16.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.30 | 0.00 | 5.30 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 303 | 15.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 304 | 15.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 305 | 15.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 306 | 15.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 307 | 15.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 308 | 15.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 309 | 15.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 310 | 15.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.31 | 0.00 | 5.31 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 311 | 15.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 312 | 15.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 313 | 14.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 314 | 14.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 315 | 14.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 316 | 14.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 317 | 14.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.32 | 0.00 | 5.32 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 318 | 14.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 319 | 14.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 320 | 14.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 321 | 14.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 322 | 14.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 323 | 13.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 324 | 13.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 325 | 13.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.33 | 0.00 | 5.33 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 326 | 13.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 327 | 13.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 328 | 13.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 329 | 13.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 330 | 13.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 331 | 13.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 332 | 13.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 333 | 12.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.34 | 0.00 | 5.34 | 0.00 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 334 | 12.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 335 | 12.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 336 | 12.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 337 | 12.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 338 | 12.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 339 | 12.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 340 | 12.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 341 | 12.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.35 | 0.00 | 5.35 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 342 | 12.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 343 | 11.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 344 | 11.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 345 | 11.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 346 | 11.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 347 | 11.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 348 | 11.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 349 | 11.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.36 | 0.00 | 5.36 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 350 | 11.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 351 | 11.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 352 | 11.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 353 | 10.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 354 | 10.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 355 | 10.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 356 | 10.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 357 | 10.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 358 | 10.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.37 | 0.00 | 5.37 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 359 | 10.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 360 | 10.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 361 | 10.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 362 | 10.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 363 | 9.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 364 | 9.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 365 | 9.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 366 | 9.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 367 | 9.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.38 | 0.00 | 5.38 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 368 | 9.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 369 | 9.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 370 | 9.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 371 | 9.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 372 | 9.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 373 | 8.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER IATT CREEK WATERSHED MODEL
REACH NO. 6 SITE 8 - SITE 9 IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

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

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

| NO. | | | deg C | ppt | MG/L | MG/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µg/L | #/100mL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | UPR RCH | 0.26150 | 26.92 | 0.00 | 5.96 | 150.67 | 5.49 | 5.39 | 0.00 | 5.39 | 0.00 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.90 | 8.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 375 | 8.80 | 8.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 376 | 8.70 | 8.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 377 | 8.60 | 8.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 378 | 8.50 | 8.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 379 | 8.40 | 8.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 380 | 8.30 | 8.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 381 | 8.20 | 8.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 382 | 8.10 | 8.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 383 | 8.00 | 7.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 384 | 7.90 | 7.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 385 | 7.80 | 7.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 386 | 7.70 | 7.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 387 | 7.60 | 7.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 388 | 7.50 | 7.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 389 | 7.40 | 7.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 390 | 7.30 | 7.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 391 | 7.20 | 7.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 392 | 7.10 | 7.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 393 | 7.00 | 6.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 394 | 6.90 | 6.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 395 | 6.80 | 6.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 396 | 6.70 | 6.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 397 | 6.60 | 6.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 398 | 6.50 | 6.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 399 | 6.40 | 6.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 400 | 6.30 | 6.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 401 | 6.20 | 6.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 402 | 6.10 | 6.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 403 | 6.00 | 5.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 404 | 5.90 | 5.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 405 | 5.80 | 5.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 406 | 5.70 | 5.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 407 | 5.60 | 5.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 408 | 5.50 | 5.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 409 | 5.40 | 5.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 410 | 5.30 | 5.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 411 | 5.20 | 5.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 412 | 5.10 | 5.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 413 | 5.00 | 4.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 414 | 4.90 | 4.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 415 | 4.80 | 4.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 416 | 4.70 | 4.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 417 | 4.60 | 4.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 418 | 4.50 | 4.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 419 | 4.40 | 4.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 420 | 4.30 | 4.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 421 | 4.20 | 4.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 422 | 4.10 | 4.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 423 | 4.00 | 3.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 424 | 3.90 | 3.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 425 | 3.80 | 3.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 426 | 3.70 | 3.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 427 | 3.60 | 3.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 428 | 3.50 | 3.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 429 | 3.40 | 3.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 430 | 3.30 | 3.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 431 | 3.20 | 3.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 432 | 3.10 | 3.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 433 | 3.00 | 2.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 434 | 2.90 | 2.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 435 | 2.80 | 2.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 436 | 2.70 | 2.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 437 | 2.60 | 2.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 438 | 2.50 | 2.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 439 | 2.40 | 2.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 440 | 2.30 | 2.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 441 | 2.20 | 2.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 442 | 2.10 | 2.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 443 | 2.00 | 1.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 444 | 1.90 | 1.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 445 | 1.80 | 1.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 446 | 1.70 | 1.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 447 | 1.60 | 1.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 448 | 1.50 | 1.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 449 | 1.40 | 1.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 450 | 1.30 | 1.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 451 | 1.20 | 1.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 452 | 1.10 | 1.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 453 | 1.00 | 0.90 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 454 | 0.90 | 0.80 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 455 | 0.80 | 0.70 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 456 | 0.70 | 0.60 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 457 | 0.60 | 0.50 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 458 | 0.50 | 0.40 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 459 | 0.40 | 0.30 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 460 | 0.30 | 0.20 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 461 | 0.20 | 0.10 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| 462 | 0.10 | 0.00 | 0.26150 | 5.1 | 0.05465 | 0.02 | 0.63 | 7.62 | 478.54 | 762.00 | 4.79 | 0.00 | 0.000 | 0.000 | 0.055 |
| TOT | | | | | | 1.89 | | | 42589.66 | 67818.00 | | | | | |
| AVG | | | | | 0.0546 | | 0.63 | 7.62 | | | 4.79 | | | | |
| CUM | | | | | | 7.54 | | | | | | | | | |

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

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 8.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 376 | 8.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 8.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 378 | 8.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 379 | 8.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | 8.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 381 | 8.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | 8.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | 7.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 384 | 7.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 385 | 7.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 386 | 7.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 387 | 7.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 388 | 7.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 389 | 7.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 390 | 7.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 391 | 7.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 392 | 7.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 393 | 6.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 394 | 6.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 395 | 6.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 396 | 6.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 397 | 6.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 398 | 6.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 399 | 6.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400 | 6.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 401 | 6.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | 6.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 403 | 5.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 404 | 5.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 405 | 5.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 406 | 5.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 407 | 5.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 408 | 5.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | 5.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | 5.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 411 | 5.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | 5.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 413 | 4.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 414 | 4.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 415 | 4.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416 | 4.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | 4.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 418 | 4.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | 4.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 420 | 4.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 421 | 4.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 422 | 4.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 423 | 3.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 424 | 3.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 425 | 3.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 426 | 3.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 427 | 3.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | 3.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | 3.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 430 | 3.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 431 | 3.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 432 | 3.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 433 | 2.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 434 | 2.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 435 | 2.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 436 | 2.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 437 | 2.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 438 | 2.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 439 | 2.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 440 | 2.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 441 | 2.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 442 | 2.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | 1.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 444 | 1.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | 1.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 446 | 1.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | 1.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 448 | 1.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 449 | 1.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 450 | 1.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 451 | 1.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | 1.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | 0.900 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 454 | 0.800 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 455 | 0.700 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 456 | 0.600 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 457 | 0.500 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 458 | 0.400 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 459 | 0.300 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 460 | 0.200 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 461 | 0.100 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 462 | 0.000 | 7.98 | 1.50 | 0.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.14 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.32 | 0.06 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | | | 0.09 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

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

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | 8.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.50 | 5.39 | 0.00 | 5.39 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 375 | 8.700 | 26.92 | 0.00 | 5.96 | 150.67 | 5.51 | 5.39 | 0.00 | 5.39 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 376 | 8.600 | 26.92 | 0.00 | 5.96 | 150.67 | 5.52 | 5.40 | 0.00 | 5.40 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 377 | 8.500 | 26.92 | 0.00 | 5.96 | 150.67 | 5.53 | 5.40 | 0.00 | 5.40 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 378 | 8.400 | 26.92 | 0.00 | 5.96 | 150.67 | 5.54 | 5.40 | 0.00 | 5.40 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 379 | 8.300 | 26.92 | 0.00 | 5.96 | 150.67 | 5.55 | 5.40 | 0.00 | 5.40 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 380 | 8.200 | 26.92 | 0.00 | 5.96 | 150.67 | 5.56 | 5.40 | 0.00 | 5.40 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 381 | 8.100 | 26.92 | 0.00 | 5.96 | 150.67 | 5.57 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 382 | 8.000 | 26.92 | 0.00 | 5.96 | 150.67 | 5.58 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 383 | 7.900 | 26.92 | 0.00 | 5.96 | 150.67 | 5.58 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 384 | 7.800 | 26.92 | 0.00 | 5.96 | 150.67 | 5.59 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 385 | 7.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.60 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 386 | 7.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.61 | 5.41 | 0.00 | 5.41 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 387 | 7.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.61 | 5.42 | 0.00 | 5.42 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 388 | 7.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.62 | 5.42 | 0.00 | 5.42 | 0.00 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 389 | 7.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.63 | 5.42 | 0.00 | 5.42 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 390 | 7.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.63 | 5.42 | 0.00 | 5.42 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 391 | 7.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.64 | 5.42 | 0.00 | 5.42 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 392 | 7.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.65 | 5.42 | 0.00 | 5.42 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 393 | 6.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.65 | 5.43 | 0.00 | 5.43 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 394 | 6.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.66 | 5.43 | 0.00 | 5.43 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 395 | 6.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.66 | 5.43 | 0.00 | 5.43 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 396 | 6.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.67 | 5.43 | 0.00 | 5.43 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 397 | 6.500 | 26.92 | 0.01 | 5.96 | 150.67 | 5.68 | 5.43 | 0.00 | 5.43 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 398 | 6.400 | 26.92 | 0.01 | 5.96 | 150.67 | 5.68 | 5.43 | 0.00 | 5.43 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 399 | 6.300 | 26.92 | 0.01 | 5.96 | 150.67 | 5.69 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 400 | 6.200 | 26.92 | 0.01 | 5.96 | 150.67 | 5.69 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 401 | 6.100 | 26.92 | 0.01 | 5.96 | 150.67 | 5.70 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 402 | 6.000 | 26.92 | 0.01 | 5.96 | 150.67 | 5.70 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 403 | 5.900 | 26.92 | 0.01 | 5.96 | 150.67 | 5.70 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 404 | 5.800 | 26.92 | 0.01 | 5.96 | 150.67 | 5.71 | 5.44 | 0.00 | 5.44 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 405 | 5.700 | 26.92 | 0.01 | 5.96 | 150.67 | 5.71 | 5.45 | 0.00 | 5.45 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 406 | 5.600 | 26.92 | 0.01 | 5.96 | 150.67 | 5.72 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 407 | 5.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.72 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 408 | 5.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.72 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 409 | 5.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.73 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 410 | 5.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.73 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 411 | 5.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.73 | 5.45 | 0.00 | 5.45 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 412 | 5.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.74 | 5.46 | 0.00 | 5.46 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 413 | 4.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.74 | 5.46 | 0.00 | 5.46 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 414 | 4.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.74 | 5.46 | 0.00 | 5.46 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 415 | 4.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.75 | 5.46 | 0.00 | 5.46 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 416 | 4.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.75 | 5.46 | 0.00 | 5.46 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 417 | 4.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.75 | 5.46 | 0.00 | 5.46 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 418 | 4.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.76 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 419 | 4.300 | 26.92 | 0.02 | 5.96 | 150.67 | 5.76 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 420 | 4.200 | 26.92 | 0.02 | 5.96 | 150.67 | 5.76 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 421 | 4.100 | 26.92 | 0.02 | 5.96 | 150.67 | 5.76 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 422 | 4.000 | 26.92 | 0.02 | 5.96 | 150.67 | 5.77 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 423 | 3.900 | 26.92 | 0.02 | 5.96 | 150.67 | 5.77 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 424 | 3.800 | 26.92 | 0.02 | 5.96 | 150.67 | 5.77 | 5.47 | 0.00 | 5.47 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 425 | 3.700 | 26.92 | 0.02 | 5.96 | 150.67 | 5.77 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 426 | 3.600 | 26.92 | 0.02 | 5.96 | 150.67 | 5.77 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 427 | 3.500 | 26.92 | 0.02 | 5.96 | 150.67 | 5.78 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 428 | 3.400 | 26.92 | 0.02 | 5.96 | 150.67 | 5.78 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 429 | 3.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.78 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 430 | 3.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.78 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 431 | 3.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.78 | 5.48 | 0.00 | 5.48 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 432 | 3.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 433 | 2.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 434 | 2.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 435 | 2.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 436 | 2.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 437 | 2.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.79 | 5.49 | 0.00 | 5.49 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 438 | 2.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.49 | 0.00 | 5.49 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 439 | 2.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 440 | 2.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 441 | 2.100 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 442 | 2.000 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 443 | 1.900 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 444 | 1.800 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 445 | 1.700 | 26.92 | 0.03 | 5.96 | 150.67 | 5.80 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 446 | 1.600 | 26.92 | 0.03 | 5.96 | 150.67 | 5.81 | 5.50 | 0.00 | 5.50 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 447 | 1.500 | 26.92 | 0.03 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 448 | 1.400 | 26.92 | 0.03 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 449 | 1.300 | 26.92 | 0.03 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 450 | 1.200 | 26.92 | 0.03 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 451 | 1.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 452 | 1.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 453 | 0.900 | 26.92 | 0.04 | 5.96 | 150.67 | 5.81 | 5.51 | 0.00 | 5.51 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 454 | 0.800 | 26.92 | 0.04 | 5.96 | 150.67 | 5.81 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 455 | 0.700 | 26.92 | 0.04 | 5.96 | 150.67 | 5.81 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 456 | 0.600 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 457 | 0.500 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 458 | 0.400 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 459 | 0.300 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 460 | 0.200 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 461 | 0.100 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.52 | 0.00 | 5.52 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |
| 462 | 0.000 | 26.92 | 0.04 | 5.96 | 150.67 | 5.82 | 5.53 | 0.00 | 5.53 | 0.00 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER

IATT CREEK WATERSHED MODEL
IATT CREEK SUMMER NOLOAD WITH POINT SOURCE RUN

TRAVEL TIME = 7.54 DAYS

MAXIMUM EFFLUENT = 5.13 PERCENT

FLOW = 0.19497 TO 0.26846 $m^3/s$
DISPERSION = 0.0000 TO 0.0000 $m^2/s$

```
 VELOCITY          =   0.03989 TO    3.20234   m/s
 DEPTH             =   0.05    TO    0.63      m
 WIDTH             =   1.32    TO   11.07      m

 BOD DECAY         =    0.06   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.77   TO    3.09      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    1.45   TO   28.48      per day
 BOD SETTLING      =    0.06   TO    0.24      per day
 NBOD DECAY        =    0.08   TO    0.14      per day
 NBOD SETTLING     =    0.24   TO    0.35      per day

 TEMPERATURE       =   26.92   TO   26.92      deg C
 DISSOLVED OXYGEN  =    5.49   TO    7.19      mg/L


     .....EXECUTION COMPLETED
```

# Appendix J2 – Summer No Load Justifications

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| OCEAN EXCHANGE RATIO | 0 | | This was done to allow dispersion in the model but not to force the bottom element through the boundary conditions. |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **ID** | **Name** | **Upstream River Kilometer** | **Downstream River Kilometer** | **Element Length, meters** | **Data Source** |
| 1 | PC | IC1-IC3 | 46.20 | 44.90 | 100.0000 | ARC MAP Calc. |
| 2 | PC | IC3-IC4 | 44.90 | 38.10 | 100.0000 | ARC MAP Calc. |
| 3 | PC | IC4-IC5 | 38.10 | 29.20 | 100.0000 | ARC MAP Calc. |
| 4 | PC | IC5-IC6 | 29.20 | 24.10 | 100.0000 | ARC MAP Calc. |
| 5 | PC | IC6-IC8 | 24.10 | 8.90 | 100.0000 | ARC MAP Calc. |
| 6 | PC | IC8-IC9 | 8.90 | 0.00 | 100.0000 | ARC MAP Calc. |

| | | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **Width Coeff. "a"** | **Width Exp. "b"** | **Width Const. "c"** | **Data Source** |
| 1 | IC1-IC3 | 0 | 0.2 | 1.321 | Constant - IC1 and Coefficients and Exponent - calibration |
| 2 | IC3-IC4 | 0 | 0.2 | 2.073 | Constant - IC3 and Coefficients and Exponent - calibration |
| 3 | IC4-IC5 | 0 | 0.2 | 3.886 | Constant - IC4 and Coefficients and Exponent - calibration |
| 4 | IC5-IC6 | 0 | 0.2 | 8.077 | Constant - IC5 and Coefficients and Exponent - calibration |
| 5 | IC6-IC8 | 2.5 | 0.2 | 9.144 | Constant - IC6 and Coefficients and Exponent - calibration |
| 6 | IC8-IC9 | 0 | 0.2 | 7.622 | Constant - IC8 and Coefficients and Exponent - calibration |

| DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | |
|---|---|---|---|
| **Depth Coeff. "d"** | **Depth Exp. "e"** | **Depth Const. "f"** | **Data Source** |
| 0 | 0.3 | 0.048 | Constant - IC1 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.120 | Constant - IC3 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.253 | Constant - IC4 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.440 | Constant - IC5 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.593 | Constant - IC6 and Coefficients and Exponent - calibration |
| 0 | 0.3 | 0.628 | Constant - IC8 and Coefficients and Exponent - calibration |

| | | DATA TYPE 11 - INITIAL CONDITIONS | | | | | |
|---|---|---|---|---|---|---|---|
| Reach | Name | Temp, deg C | Data Source | DO, mg/l | Data Source | Chlorophyll a | Data Source |
| 1 | IC1-IC3 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 38.0 | IC1 Lab Data |
| 2 | IC3-IC4 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 7.0 | IC3 Lab Data |
| 3 | IC4-IC5 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |
| 4 | IC5-IC6 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | 0 | IC5 Lab Data |
| 5 | IC6-IC8 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |
| 6 | IC8-IC9 | 26.92 | 90th Percentile Temperature for Summer Season | 5.00 | DO Standard for 101303 | | |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| REACH | NAME | K2 OPT | Data Source | BKGRND SOD, gmO2/m2/day at 20 deg C | Data Source | Aerobic BOD Dec Rate (1/day) | Data Source | BOD SETT RATE (1/day) | Data Source |
| 1 | IC1-IC3 | 11 | Texas Equation | 0.50 | 100% Reduction Calc. | 0.0405 | AVG(IC1,IC2,IC3) | 0.20 | Calibration |
| 2 | IC3-IC4 | 11 | Texas Equation | 2.00 | 100% Reduction Calc. | 0.0555 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 11 | Texas Equation | 1.20 | 100% Reduction Calc. | 0.0640 | AVG(IC4,IC5) | 0.15 | Calibration |
| 4 | IC5-IC6 | 11 | Texas Equation | 1.24 | 100% Reduction Calc. | 0.0669 | AVG(IC5,IC6) | 0.15 | Calibration |
| 5 | IC6-IC8 | 11 | Texas Equation | 1.15 | 100% Reduction Calc. | 0.0645 | AVG(IC6,IC8) | 0.05 | Calibration |
| 6 | IC8-IC9 | 11 | Texas Equation | 1.06 | 100% Reduction Calc. | 0.0611 | IC8 | 0.10 | Calibration |

| | | DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | IC1-IC3 | 0.0692 | AVG(IC1,IC2,IC3) | 0.30 | Calibration |
| 2 | IC3-IC4 | 0.0634 | AVG(IC3,IC4) | 0.20 | Calibration |
| 3 | IC4-IC5 | 0.0531 | AVG(IC4,IC5) | 0.20 | Calibration |
| 4 | IC5-IC6 | 0.0732 | AVG(IC5,IC6) | 0.20 | Calibration |
| 5 | IC6-IC8 | 0.0904 | AVG(IC6,IC8) | 0.20 | Calibration |
| 6 | IC8-IC9 | 0.0944 | IC8 | 0.20 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, deg C** | **Data Source** |
| 1 | IC1-IC3 | -0.0028 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 2 | IC3-IC4 | 0.0000 | 0.0187 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 3 | IC4-IC5 | 0.0000 | 0.0442 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 4 | IC5-IC6 | 0.0000 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 5 | IC6-IC8 | -0.0079 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |
| 6 | IC8-IC9 | 0.0000 | 0.0000 | Flow Balance Calculation | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | |
|---|---|---|---|
| Reach | Reach Name | DO, mg/l | Data Source |
| 1 | IC1-IC3 | 2 | Normal Groundwater DO |
| 2 | IC3-IC4 | 2 | Normal Groundwater DO |
| 3 | IC4-IC5 | 2 | Normal Groundwater DO |
| 4 | IC5-IC6 | 2 | Normal Groundwater DO |
| 5 | IC6-IC8 | 2 | Normal Groundwater DO |
| 6 | IC8-IC9 | 2 | Normal Groundwater DO |

| | DATA TYPE 19 - NONPOINT SOURCES | | | | |
|---|---|---|---|---|---|
| Reach | Reach Name | Length of Reach, km | UCBOD, kg/day | NBOD, kg/day | Data Source |
| 1 | IC1-IC3 | 1.30 | 0.0 | 1.00 | 100% Reduction Calc. |
| 2 | IC3-IC4 | 6.8 | 0.0 | 0.00 | 100% Reduction Calc. |
| 3 | IC4-IC5 | 8.9 | 25.0 | 3.00 | 100% Reduction Calc. |
| 4 | IC5-IC6 | 5.1 | 25.0 | 6.00 | 100% Reduction Calc. |
| 5 | IC6-IC8 | 15.2 | 83.0 | 36.00 | 100% Reduction Calc. |
| 6 | IC8-IC9 | 8.9 | 50.0 | 14.00 | 100% Reduction Calc. |

| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Headwater Name | Element No. | Logical Unit Number | Headwater Flow, cms | Data Source | Temp, deg C | Data Source | Conservative Material I | Conservative Material II | Salinity | Data Source |
| Headwater 1 | 1 | 1 | 0.1954 | 7Q10 for Iatt Creek | 26.92 | Summer 90th percentile temp for WQ Site 1222 | 4.8 | 167.1 | 0.07 | IC1 Continuous Monitoring - Temp<br>Lab Data - CMI<br>Insitu - Salinity and CMII |

| | | DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | |
|---|---|---|---|---|---|
| Headwater Name | Dissolved Oxygen, mg/L | Data Source | UCBOD, mg/l | NBOD, mg/l | Data Source |
| Headwater 1 | 7.18 | Summer 90 % DO Sat. for WQ Site 1222 | 5.56 | 0.32 | 100% Reduction Calc. |

| DATA TYPES 22 - HEADWATER DATA FOR CHLOROPHYLL | | |
|---|---|---|
| **Headwater Name** | **Chlorophyll a, ug/L** | **Date Source** |
| Headwater 1 | 38 | IC1 Lab Data |

| | | | DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **Flow, cms** | **Data Source** | **Temperature, deg C** | **Data Source** | **Salinity** | **Conservative Material I** | **Data Source** | **Conservative Material II** | **Data Source** |
| WINN CORRECTIONAL | 3 | 0.0000 | No Load | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.35 | 76.1 | IN SITU DATA AT IC2 | 680.8 | LAB DATA AT IC2 |
| Redland/Cow Creek | 91 | 0.0028 | LTP Default | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.03 | 8.6 | IN SITU DATA AT RC1 | 89.1 | LAB DATA AT RC1 |
| Cruie Creek | 239 | 0.0028 | LTP Default | 26.92 | Summer 90 th Percentile Temp. for WQ Site 1222 | 0.05 | 11.5 | IN SITU DATA AT CC1 | 123.4 | LAB DATA AT CC1 |

| DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN | | | | | | |
|---|---|---|---|---|---|---|
| **Wasteload / Withdrawal Name** | **EL #** | **DO, mg/l** | **Data Source** | **UCBOD, mg/l** | **UNBOD, mg/l** | **Data Source** |
| WINN CORRECTIONAL | 3 | 5 | DO Standard for Subsegment 101303 | 23 | 43 | Permit Limit for CBOD1 and LTP default for NBOD |
| Redland/Cow Creek | 91 | 5 | DO Standard for Subsegment 101303 | 5.24 | 0.64 | RLC1 with 100% Reduction |
| Cruie Creek | 239 | 5 | DO Standard for Subsegment 101303 | 4.55 | 1.33 | CC1 with 100% Reduction |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| | | | |
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 26.92 | $^{O}C$ | Summer 90th percentile temp. for WQ Site 1222 |
| SALINITY | 0.04 | mg/L | Insitu at IC9 |
| CONSERVATIVE MATERIAL I | 17.90 | ppm | IC9 Lab Data |
| CONSERVATIVE MATERIAL II | 107.80 | umhos/cm | Insitu at IC9 |
| DISSOLVED OXYGEN | 5.00 | mg/L | DO Standard for Subsegment 101303 |
| CBOD | 10.04 | mg/L | IC9 Lab Data |
| NBOD | 1.60 | mg/L | IC9 Lab Data |