THE QUARRIES AT BEAVER CREEK

AMHERST TWP
BROWNHELM TWP
VILLAGE OF S. AMHERST
(LORAIN COUNTY, OHIO)

DISSOLVED OXYGEN MODELING FOR PROPOSED DISCHARGE OF DOMESTIC WASTEWATER TO BEAVER CREEK

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Prepared for

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1.0 Introduction

1.1 Property Development Summary

IRG Amherst LLC (IRG) is planning a residential development project on approximately 950 acres located in Amherst Township, Brownhelm Township and the Village of South Amherst, all of which are in Lorain County, Ohio. The site is a former sandstone quarry that was last operated by the Cleveland Quarries Company. Active quarry operations were terminated during the early 1990's and the site has remained undeveloped since that time. Dissolved oxygen modeling was conducted to determine proposed NPDES permit effluent limits for a planned sewage treatment facility discharge to Beaver Creek. Figure 1 is a map of the Beaver Creek drainage area showing the location of the site and the project study area. Figure 2 is a more detailed map showing the approximate location of the proposed discharge.

Initial plans for the development project call for construction of approximately 1,000 homes ranging from stand-alone luxury homes to a number of attached homes. In addition to aesthetic and recreational opportunities provided by the quarries, plans call for considerable green space including pastureland, equestrian and walking trails and other mixed-use space. Under consideration for the planned development are an equestrian center with an indoor arena and an outdoor show ring, a centrally located lodge/clubhouse, a trap and skeet shooting area, and a marina.

1.2 Wastewater Treatment

Sewage treatment will be provided by an advanced on-site wastewater treatment facility. The project may include polishing of the wastewater treatment plant effluent in a managed wetland and reclamation of a considerable portion of the treated effluent for irrigation of green spaces, thus minimizing point source discharges to Beaver Creek. At this writing, discussions are underway with the Village of South Amherst to provide sewage treatment for the Village, which is unsewered. Currently, there is evidence of untreated sewage discharges to Beaver Creek.

Anticipated discharge flows to Beaver Creek were developed for a number of scenarios that incorporate flow from the planned development, potential flows from the Village of South Amherst and other nearby residential areas, and reclaim of treated effluent for site irrigation. For purposes of this report, discharge flows to Beaver Creek were modeled at

200,000, 400,000 and 800,000 gallons per day (0.20, 0.40 and 0.80 million gallons per day, mgd) to take into account development options.

1.3 Ohio Water Quality Standards

OAC 3745-1-27 lists the aquatic life use designation for Beaver Creek as Warm Water Habitat (WWH). Ohio dissolved oxygen water quality standards for WWH surface waters are set out at OAC 3745-1-07, Table 7-1:

Outside Mixing Zone Standards	Minimum	Average
Dissolved Oxygen (WWH)	4.0 mg/L	5.0 mg/L

1.4 Multi-SMP Model

Given the low flow characteristics of Beaver Creek and the anticipated flows from the planned development project, Ohio EPA advised the project team that the US EPA-sponsored Simplified Analytical Method (SAM) dissolved oxygen modeling approach is suitable for this project. SAM was issued by USEPA in 1980 as technical guidance for determining NPDES effluent limits for publicly owned treatment works (POTWs) discharging to low flow streams.[1] It followed a simplified dissolved oxygen modeling method developed by US EPA Region V in cooperation with the Region V states.

In 1985, U.S. EPA contracted Limno-Tech, Inc. (LTI) to prepare a user-friendly computer model based upon the Simplified Analytical Method for conducting wasteload allocations for low flow streams. The resultant model was designated the Simplified Method Program for Multiple Discharges, or Multi-SMP. U.S. EPA Region IV sponsored an update of the Multi-SMP program in 1992.

The Multi-SMP model predicts downstream dissolved oxygen concentrations in response to user-identified upstream flow and quality, effluent flow and quality, and downstream characteristics. The model is operated in an iterative manner to determine

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1 *Technical Guidance Manual for Performing Waste Load Allocations, Simplified Analytical Method for Determining NPDES Effluent Limitations for POTWs Discharging into Low-Flow Streams*, U.S. EPA, Office of Water Regulations and Standards, Monitoring and Data Support Division, Washington, DC, September 26, 1980.

effluent discharge levels for five-day carbonaceous biochemical oxygen demand ($CBOD_5$) and ammonia-N that would result in attainment of the ambient dissolved oxygen water quality standard (average of 5.0 mg/L in this case).

2.0 Field Studies

On July 18, 2008, Amendola Engineering, Inc. conducted a preliminary site visit at the Quarries site. The site visit included a brief meeting with Atwell-Hicks and IRG personnel as well as a visual inspection of the proposed development property and the Beaver Creek study area. Photos taken of Beaver Creek during the preliminary site visit are included as Appendix A to this report.

The EPA SAM modeling and Multi-SMP model guidance recommends using site-specific data to the maximum extent practical for background water quality and to characterize certain physical characteristics of the receiving water. To that end EnviroScience, Inc. (Stow, OH) conducted several field studies in the Beaver Creek study area that included water quality sampling, continuous dissolved oxygen monitoring and physical measurement surveys. A summary of work completed by EnviroScience, along with a summary of the work completed in relation to the Ohio EPA-approved Dissolved Oxygen Modeling Work Plan[2] are included as Attachment A to this report.

The quantity of data obtained from the field studies conducted by EnviroScience exceeds the minimum data requirements of the US EPA SAM method and the Multi-SMP model for a single discharge. The data quality objectives set out in the work plan were achieved and the data are judged to be of sufficient quality for the dissolved oxygen modeling uses intended.

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2 *Quality Assurance Project Plan and Work Plan for Dissolved Oxygen Water Quality Modeling, The Quarries at Beaver Creek.* Submitted to Jeff Reynolds, Ohio EPA on September 4, 2008 and approved on January 27, 2009.

3.0 Dissolved Oxygen Model Input Data

3.1 Data Requirements

The Multi-SMP model requires three sets of user-specified input data to predict downstream dissolved oxygen concentrations: (1) upstream or background characteristics, which for this project were developed from historical stream flow data for the Black River and water quality data collected by EnviroScience; (2) proposed discharge characteristics, which were selected initially as the Ohio EPA Best Available Demonstrated Control Technology (BACT) effluent limits and as site-specific modified discharge characteristics; and, (3) downstream or "reach" characteristics developed from data collected by EnviroScience as part of the physical measurement surveys and from guidance provided by US EPA (SAM guidance for small streams).

3.2 Upstream/Background Characteristics

Table 3.2.1 presents upstream or background data used in the Multi-SMP model and respective source references. Input values were held constant for all modeling scenarios except for model sensitivity analyses.

Table 3.2.1
Multi-SMP Upstream/Background Input Values

Parameter	Value	Unit	Reference
Flow ($Q_{7,10}$)	0.203	cfs	Developed by Paul Anderson. Ohio EPA NEDO based on available Black River @ Lorain flow data (See Appendix C).
Temperature	16.6	°C	Measured at river mile 8.15 on 09/25/2008
Dissolved Oxygen	8.78	mg/L	Measured at river mile 8.15 on 09/25/2008
$CBOD_5$	2.00	mg/L	Measured at river mile 8.15 on 09/25/2008
$CBOD_U/CBOD_5$	3.25		Calculated from measured $CBOD_5$ (2.0 mg/l) and measured $CBOD_U$ (6.5 mg/l) at river mile 8.15 on 09/25/2008
pH	8.17	s.u.	Measured at river mile 8.15 on 09/25/2008
Ammonia-N	0.115	mg/L	Measured at river mile 8.15 on 09/25/2008
Alkalinity	133	mg/L	Measured at river mile 8.15 on 09/25/2008
Upstream River Mile	8.15	Mile	Proposed location of discharge.

Ohio water quality standards at OAC 3745-1-01(D) require that dissolved oxygen water quality criteria must be met at stream flows at and above the minimum seven-day average flow with a 10-year recurrence interval, otherwise known as the $Q_{7,10}$ flow. $Q_{7,10}$ flows are most often calculated from many years of daily historical stream flow data obtained at stream gaging stations maintained by the U.S. Geological Survey (USGS). The USGS does not maintain a stream gaging station on Beaver Creek because of the relatively small drainage area of the Creek,. In such situations common practice is to transfer drainage area yields from nearby streams with similar characteristics where historical stream flow data are available. In this case, Paul Anderson, Ohio EPA Northeast District Office calculated a $Q_{7,10}$ flow of 0.203 cfs for Beaver Creek at the study area based on drainage yields for the Black River upstream of Elyria (USGS station 420500, see Appendix C). This is judged to be a reasonable approach for estimating the upstream water quality design flow for this project. The calculated value may be low based on comparisons of field measurements of Beaver Creek flow compared to corresponding reported flow for the Black River. Nonetheless, the calculated $Q_{7,10}$ flow of 0.203 cfs was used for modeling purposes.

By design, the $Q_{7,10}$ is a conservative water quality design flow, meaning that if the proposed sewage treatment plant is designed to meet the 5.0 mg/L daily average water quality standard in Beaver Creek at that flow, there is high confidence the standard will be met when the stream flow is greater than the $Q_{7,10}$ flow. For example, for the Black River upstream of Elyria, the River flow was at or below the $Q_{7,10}$ flow of 4 cfs for 23 days over the period 1960 to 2008 (49 years), or only 0.13% of the time. A similar low frequency of occurrence of the $Q_{7,10}$ flow for Beaver Creek is reasonable to expect.

3.3 Proposed Discharge Characteristics

Table 3.3.1 presents discharge characteristics used in the Multi-SMP model and respective source references. Three discharge flows for the proposed sewage treatment plant and two $CBOD_5$ effluent concentrations were used as input values to develop six different modeling scenarios. All other input values were held constant or at levels from the Ohio EPA BACT for the six modeling scenarios. The model sensitivity analyses described below considered ± 25% variations in model inputs.

Table 3.3.1
Multi-SMP Proposed Discharge Input Values

Parameter	Value	Unit	Reference
Flow (3 values)	0.20 0.40 0.80	mgd	Alternate discharge flows to Beaver Creek were developed for different operating scenarios
Temperature	20.0	°C	Estimated based on average summer discharge temperature of small Northeast Ohio POTWs (Appendix D)
Dissolved Oxygen	6.0	mg/L	Ohio BACT minimum limit (OAC 3745-1-05)
$CBOD_5$ (seven-day average) (2 values)	15.0 10.0	mg/L mg/L	INITIAL VALUE: Ohio BACT (OAC 3745-1-05) MODIFIED VALUE: Discharge characteristic based on results of modeling with BACT seven-day average limit
$CBOD_U/CBOD_5$	2.75		Ohio EPA-recommended value (12/04/08 communication from E. Pineiro)
pH	8.0	s.u.	Estimated based on median summer discharge pH values for small Northeast Ohio POTWs (see Appendix D)
Ammonia-N (seven-day average)	1.5	mg/L	Ohio BACT (OAC 3745-1-05)
Alkalinity	100	mg/L	Estimated
Number of Downstream Reaches	1		Appropriate for modeling of a single discharge

3.4 Downstream Beaver Creek Characteristics

Table 3.4.1 presents downstream reach data used in the Multi-SMP model and respective source references. As noted above for discharge Input values, the downstream Beaver Creek characteristics were held constant for all modeling scenarios except for model sensitivity analyses.

Table 3.4.1
Multi-SMP Downstream Reach Input Values

Parameter	Value	Unit	Reference
Length	1.15	Mile	Measured during physical measurement surveys (Appendix E)
Velocity	0.04	Fps	Calculated from velocities measured during physical measurement surveys (Appendix E)[3]
Slope	39	ft/mile	Measured during physical measurement surveys (Appendix E)
Average Depth	0.53	Ft	Calculated from depths measured during physical measurement surveys (App. F)
Temperature	17.92	°C	Average of measured temp. at river miles 8.15, 7.25, and 7.00 on 09/25/2008
$CBOD_5$ Removal Rate	0.4	1/day	As specified in approved work plan. A value of 0.4 was chosen as midpoint of 0.3 to 0.5 range selected based on Beaver Creek characteristics and proposed level of wastewater treatment
NH3-N Decay Rate	0.55	1/day	As specified in approved work plan. A value of 0.55 was chosen as midpoint of 0.5 to 0.6 range selected based on Beaver Creek characteristics
Sediment Oxygen Demand Rate	1.5	$g/m^2/day$	As specified in approved work plan. A value of 1.5 was chosen as midpoint of 1.0 to 2.0 range for the downstream reach
Photosynthesis/Respiration Rate	0 ± 0.74	mg/L/day	Ohio EPA-recommended value (12/04/08 communication from E. Pineiro) <u>Range for Sensitivity Analysis Only</u> Calculated from continuous dissolved oxygen data (Appendix G)

[3] Appendix E presents measured and calculated ambient downstream reach velocities, without the addition of the proposed discharge flow. The Multi-SMP model calculates downstream velocity from ambient velocity, average depth, and discharge flow model input values.

4.0 Modeling Results

4.1 Initial Modeling Results

Initial dissolved oxygen modeling was conducted using constant values for all upstream/background and downstream reach input values. The Ohio seven-day average BACT limits for $CBOD_5$ (15 mg/L) and summer ammonia-N (1.5 mg/L) were used as discharge input values, and were held constant across the range of discharge flows studied. The Ohio BACT minimum dissolved oxygen effluent concentration of 6.0 mg/L was included in all model runs. As noted in Table 3.3.1, discharge flows of 0.20 mgd, 0.40 mgd and 0.80 mgd were included in the initial model runs.

The Multi-SMP model predicts dissolved oxygen concentrations above the Ohio average water quality standard of 5.0 mg/l at discharge flows of 0.20 and 0.40 mgd. At the discharge flow of 0.80 mgd the model predicts dissolved oxygen concentrations below 5.0 mg/L from about river mile 8.0 to river mile 7.4 by approximately 0.4 mg/L at the point of maximum dissolved oxygen sag. At discharge flows up to 0.46 mg/l the model predicts dissolved oxygen concentrations above the 5.0 mg/L water quality standard. Results of the initial modeling are presented graphically in Figure 4. Multi-SMP model output files are attached as Exhibit D.

4.2 Additional Modeling with Modified Discharge Characteristic

As noted above, initial modeling was conducting using seven-day average Ohio BACT effluent limits for $CBOD_5$ (15 mg/L) and ammonia-N (1.5 mg/L). Based on initial modeling results, alternative discharge characteristics were considered to demonstrate compliance with the 5.0 mg/L average dissolved oxygen water quality standard at the maximum design effluent flow of 0.80 mgd. As shown in Table 3.3.1, a lower seven-day average effluent concentration for $CBOD_5$ of 10 mg/L was selected based on best professional judgment. This effluent concentration is considered achievable for the advanced level of treatment planned for the proposed sewage treatment plant.

With the modified discharge characteristic (seven-day average of 10 mg/L $CBOD_5$) the Multi-SMP model predicts downstream dissolved oxygen concentrations above the 5.0 mg/L Ohio water quality standard at discharge flows up to and including 0.80 mgd, the maximum anticipated design flow for the sewage treatment plant. Modeling results for these model runs are presented graphically in Figure 5. Multi-SMP model output files are attached as Exhibit D.

4.3 Sensitivity Analyses

EPA guidance is that the sensitivity of the Multi-SMP model output (downstream dissolved oxygen concentrations) to model input variables should be evaluated to assess uncertainty in model predictions. Accordingly, a series of model simulations was conducted on each model input value except discharge flow. The maximum expected design discharge flow of 0.80 mgd was used in all model sensitivity analyses because the highest expected discharge flow results in the lowest downstream dissolved oxygen concentrations, and thus is the most conservative value (see Figures 4 and 5).

For each input value, two additional model simulations were conducted varying the input value by 25 percent (± 25%), or a total of 40 model sensitivity runs. While this is a common approach for sensitivity analyses, for many of the input variables a range of ± 25% is overly broad given the amount of site-specific information developed for this project. The minimum predicted dissolved oxygen average concentration at a discharge flow of 0.80 mgd is the baseline concentration considered in the sensitivity analyses.

The results of the sensitivity analysis are presented in Figure 6 (data table and chart). The model is not sensitive or relatively insensitive to all of the upstream parameters; discharge pH, ammonia-N and alkalinity; and, downstream depth, ammonia-N decay rate, sediment oxygen demand and photosynthesis. The model is somewhat more sensitive to discharge temperature, dissolved oxygen and $CBOD_5$ and downstream velocity and $CBOD_5$ removal rate. Of the 40 model sensitivity simulations, only two resulted in downstream dissolved oxygen concentrations less than the average dissolved oxygen water quality standard of 5.0 mg/l. This demonstrates the model calculations are not particularly sensitive to a fairly wide range of values for nearly all of the input variables.

Model Input	Sensitivity	Input Value	Minimum Dissolved Oxygen
Effluent Temperature (°C)	+ 25%	25 °C	4.68 mg/L
Downstream Reach Velocity (fps)	- 25%	0.03 fps	4.67 mg/L

Additional modeling shows average dissolved oxygen concentrations above 5.0 mg/L are predicted at discharge temperatures up to 23.2°C. Daily summer effluent temperatures from 2007 to 2008 for Northeast Ohio POTWs (Attachment D) show the highest recorded summer effluent temperature was 20.8°C. Based on these data, daily discharge temperatures from the proposed sewage treatment plant approaching 23°C

are not likely to occur, let alone 25°C. Thus, discharge temperature is not considered a critical variable for establishing NPDES permit effluent limits for the advanced sewage treatment plant.

The average model input downstream Beaver Creek velocity is 0.04 fps, which appears to be a rather low velocity based on visual observations of the stream during near low-flow conditions. This value was calculated based on extrapolations of field measurements at higher than $Q_{7,10}$ flows from three reaches of Beaver Creek across the modeled segment of Beaver Creek. The extrapolations were made on the basis of measured stream slope for each reach. This is considered a fairly straightforward approach to estimating downstream velocity. Given the conservative nature of the modeling approach for this project (sensitivity analyses conducted at maximum design flow; infrequent occurrence of the $Q_{7,10}$ flow), the sensitivity of model results to downstream velocity is not judged to be so high as to affect selection of proposed NPDES permit effluent limits for $CBOD_5$.

4.4 Ohio EPA Preliminary Review

On December 10, 2008, several model input/output files and supporting information were sent electronically to Eric Pineiro (Ohio EPA DSW) for preliminary review of the modeling work. The files included Multi-SMP model input files, an input data documentation summary, and results of the sensitivity analysis presented in Section 4.2 of this report. Mr. Pineiro responded on December 17, 2008 and stated the modeling results and assumptions appeared reasonable.

5.0 Conclusions

5.1 Final Modeling Results

This dissolved oxygen modeling study demonstrates the Ohio 5.0 mg/L daily average dissolved oxygen water quality standard can be achieved with a large margin at wastewater treatment plant discharge flows of 0.40 mgd at Ohio's BACT effluent standards for POTW's discharging to low flow streams. The dissolved oxygen standard can also be achieved at discharge flows up to 0.80 mgd with a reasonable margin provided the seven-day average effluent $CBOD_5$ concentration is 10 mg/L or less, compared to the seven-day average BACT effluent concentration of 15 mg/L.

5.2 Proposed NPDES Permit Effluent Limits and Monitoring Requirements

The following tables present proposed NPDES permit effluent limits and monitoring requirements for the proposed sewage treatment plant discharge to Beaver Creek. Tiered effluent limits based on anticipated discharge flow rates are proposed to take into account the phased approach for the development that is likely to occur. It is likely the first tier effluent limits would remain in effect for the term of the first five-year NPDES permit and the second tier limits would come into effect during the term of the second five-year NPDES permit or in subsequent NPDES permits. The proposed effluent limits are for the end-of-pipe discharge from the proposed sewage treatment plant and do not reflect likely effluent reduction benefits from possible wetlands polishing of the effluent.

Table 5.2.1
Proposed NPDES Permit Effluent Limits and Monitoring Requirements
Effluent flows up to 0.40 mgd (Ohio BACT)

	Effluent Limits - Concentration (mg/l)			Monitoring Requirements		
Parameter	30-Day Average	7-Day Average	Minimum or Maximum	Frequency	Sample Type	Months
Flow, mgd	-	-	-	Daily	24 hr T	All
TSS	12	18	-	1/Wk	24 Hr C	All
$CBOD_5$	10	15	-	1/Wk	24 Hr C	All
Ammonia-N	1.0	1.5	-	1/Wk	24 Hr C	Summer
Ammonia-N	3.0	4.5	-	1/Wk	24 Hr C	Winter
T. Phosphorus	-	-	-	1/Wk	24 Hr C	All
DO	-	-	6.0 (min)	1/Wk	Grab	All
Temp. (C)	-	-	-	1/Wk	Grab	All
TRC	-	-	0.038 (max)	1/Wk	Grab	All
Fecal Coliform* (#/100 ml)	1,000	2,000	-	1/Wk	Grab	All
pH (s.u.)	-	-	6.0 to 9.0 su	1/Wk	Grab	All

Notes: (1) TSS – total suspended solids
$CBOD_5$ – five-day carbonaceous biochemical oxygen demand
DO – dissolved oxygen
TRC – total residual chlorine
(2) Proposed effluent limits for fecal coliform are geometric mean values
(3) 1/Wk – monitoring frequency of once per week
24 Hr T – 24-hour total discharge flow in million gallons per day
24 Hr C – 24-hour flow proportioned composite sample

Table 5.2.2
Proposed NPDES Permit Effluent Limits and Monitoring Requirements
Effluent flows greater than 0.40 mgd and up to 0.80 mgd (modified Ohio BACT)

	Effluent Limits - Concentration (mg/l)			Monitoring Requirements		
Parameter	30-Day Average	7-Day Average	Minimum or Maximum	Frequency	Sample Type	Months
Flow, mgd	-	-	-	Daily	24 hr T	All
TSS	12	18	-	1/Wk	24 Hr C	All
$CBOD_5$	10	10	-	1/Wk	24 Hr C	All
Ammonia-N	1.0	1.5	-	1/Wk	24 Hr C	Summer
Ammonia-N	3.0	4.5	-	1/Wk	24 Hr C	Winter
T. Phosphorus	-	-	-	1/Wk	24 Hr C	All
DO	-	-	6.0 (min)	1/Wk	Grab	All
Temp. (C)	-	-	-	1/Wk	Grab	All
TRC	-	-	0.038 (max)	1/Wk	Grab	All
Fecal Coliform* (#/100 ml)	1000	2000	-	1/Wk	Grab	All
pH (s.u.)	-	-	6.0 to 9.0 su	1/Wk	Grab	All

Notes: (1) TSS – total suspended solids
$CBOD_5$ – five-day carbonaceous biochemical oxygen demand
DO – dissolved oxygen
TRC – total residual chlorine
(2) Proposed effluent limits for fecal coliform are geometric mean values
(3) 1/Wk – monitoring frequency of once per week
24 Hr T – 24-hour total discharge flow in million gallons per day
24 Hr C – 24-hour flow proportioned composite sample

THE QUARRIES AT BEAVER CREEK

DISSOLVED OXYGEN MODELING FOR PROPOSED DISCHARGE OF DOMESTIC WASTEWATER TO BEAVER CREEK

ATTACHMENT A ENVIROSCIENCE, INC. FIELD ACTIVITIES NARRATIVE

Water Quality Sampling

EnviroScience collected three rounds of samples from each of five sampling sites on Beaver Creek (RM 9.10, RM 8.77, RM 8.15, RM 7.25, and RM 7.00). Excepting the addition of the site at RM 7.25, these locations duplicate the sampling sites used in EnviroScience's biological survey. In addition to the primary samples, QA/QC samples (two duplicate, two MS/MSDs, and one field blank) were collected. Primary and QA/QC samples were collected according to Ohio EPA QDC Level 3 protocols. All samples were collected by (or under the direct supervision of) Joe Papineau, EnviroScience's Level 3 QDC for chemical water quality assessment. Sampling events occurred on 9/24/08, 10/13/08, and 10/24/08 under "low-flow" ambient conditions.

All samples were collected using "grab" methods and were chilled to 4°C upon collection. Samples were delivered to Precision Analytical (Cleveland, Ohio) and were analyzed for the following parameters:

Total Suspended Solids (TSS), mg/L
Total Alkalinity as $CaCO_3$, mg/L
$CBOD_5$, mg/L (nitrification inhibited)
$CBOD_U$, mg/L (nitrification inhibited)
Total Kjeldahl Nitrogen (TKN), mg/L
Ammonia-N, mg/L
Nitrite & Nitrate-N, mg/L
Total Phosphorus, mg/L

In addition to the parameters above, EnviroScience collected the following in-field parameters using either a YSI 556 MPS or YSI 600 XLM sonde:

Temperature, °C
pH, su
Dissolved oxygen, mg/L

Stream flow (cfs) was also calculated during each sampling event. These calculations were based on velocity and cross section area measurements near former bridge abutments at, approximately, RM 8.80. A Marsh-McBirney Flow Mate Model 2000 portable flow meter was used to measure velocities used in the calculations.

All instruments were calibrated according to the manufacturer's specifications before each event, and all in-field procedures followed methods outlined in Ohio EPA's *Manual of Surveillance Methods and Quality & Maintenance Assurance Practices* (2006).

A tabular summary of water quality data is presented as Appendix B, data reports from Precision Analytical are presented as Exhibit A, and a map of water quality sampling locations is presented as Figure 2 to the Dissolved Oxygen Modeling Report (DO Report).

Continuous Dissolved Oxygen Monitoring

EnviroScience deployed YSI 600 XLM sondes at each water quality sampling location to collect dissolved oxygen (DO) data. These sondes were deployed for ten days (from 10/22/08 to 10/31/08) and collected data in 15-minute intervals. Alongside DO, the sondes also logged temperature, specific conductivity, and pH. Sonde deployment was conducted by Joe Papineau, EnviroScience's Level 3 QDC for chemical water quality assessment.

All instruments were calibrated according to the manufacturer's specifications before each event, and all in-field procedures followed methods outlined in Ohio EPA's *Manual of Surveillance Methods and Quality & Maintenance Assurance Practices* (2006).

Collected data are included as Exhibit B to the DO Report.

Physical Measurement Surveys

EnviroScience collected physical measurements of representative morphological features in selected reaches of Beaver Creek. Measurements included widths and depths of riffles and pools from RM 8.15 to RM 7.00. This 1.15-mile reach was divided into ten approximately equal segments. In addition to width and depth measurements, slopes for each segment were calculated using desktop GIS analysis. Slopes were calculated based on elevations derived from a high resolution digital elevation model (DEM), collected in 2006. Finally, stream velocities were measured in similar pools at three locations near the top, middle, and bottom of the 1.15-mile reach.

In-stream measurements were collected on 11/6/08, 11/7/08, and 11/19/08. Data from the first two dates were collected under representative low-flow conditions. On 11/19/08, stream levels were slightly elevated. As such, depth measurements were scaled back to the conditions present during the first two dates. This scaling was accomplished by re-measuring a number of features measured on the first two dates and deriving a correction factor.

A map of survey segments is presented as Figure 3, and survey data are included as Attachment C to the DO Report.

Deviations from the DO Modeling Work Plan

Slight deviations from the work plan were necessary based on equipment, property access, and stream conditions.

The YSI 600 XLM sondes used for DO logging were first deployed on 10/9/08. Upon retrieval, on 10/20/08, it was found that two of the five sondes failed to record data due to power supply issues, and a third sonde reported errant pH data. The sondes were returned to the rental

supplier for maintenance and recalibration. As a result of the malfunctions, sondes were re-deployed on 10/22/08. Results of the second deployment indicated that all sondes functioned properly. Data collected from re-deployment of the sondes are presented in Exhibit B, and data collected from initial deployment of the sondes are presented in Exhibit E.

In-field parameters for each sampling event were to be collected using a YSI 556 MPS. Due to limited equipment availability, parameters reported for 10/13/08 and 10/24/08 were measured with YSI 600 XLM sondes deployed at each sampling site. As a result of the sonde malfunctions during the first deployment, in-field parameters for the 10/13/08 analytical sampling event were not collected at RM 8.77 and RM 7.25. Additionally, useful pH data from 10/13/08 was unavailable for RM 8.15.

The number of physical measurements of riffles and pools anticipated in the work plan was reduced from twenty to twelve, based on limited access to private property, as well as the morphology of the stream itself. Due to large amounts of bedrock substrate below RM 8.15, limited development of riffles and pools was noted in some reaches. In addition, the number of velocities measured was reduced from a total of ten to three.

A Rhodamine-WT dye study was not conducted as planned in the work plan due to elevated flow conditions in Beaver Creek toward the end of the field study time period (November 2008). Alternatively, time of travel calculations were conducted using measured velocities from the three measured velocities, and are presented in Appendix E.

As noted previously, some physical measurements were made under slightly elevated flow conditions and had to be scaled back to correlate to measurements made under representative low-flow conditions.

THE QUARRIES AT BEAVER CREEK

DISSOLVED OXYGEN MODELING FOR PROPOSED DISCHARGE OF DOMESTIC WASTEWATER TO BEAVER CREEK

FIGURE 1 OVERVIEW PROJECT AREA MAP

FIGURE 2 DETAILED PROJECT AREA MAP

FIGURE 3 BEAVER CREEK SURVEY SEGMENT MAP

FIGURE 4 PRELIMINARY MODELING RESULTS

FIGURE 5 ADDITIONAL MODELING RESULTS

FIGURE 6 SENSITIVITY ANALYSIS INPUTS AND RESULTS

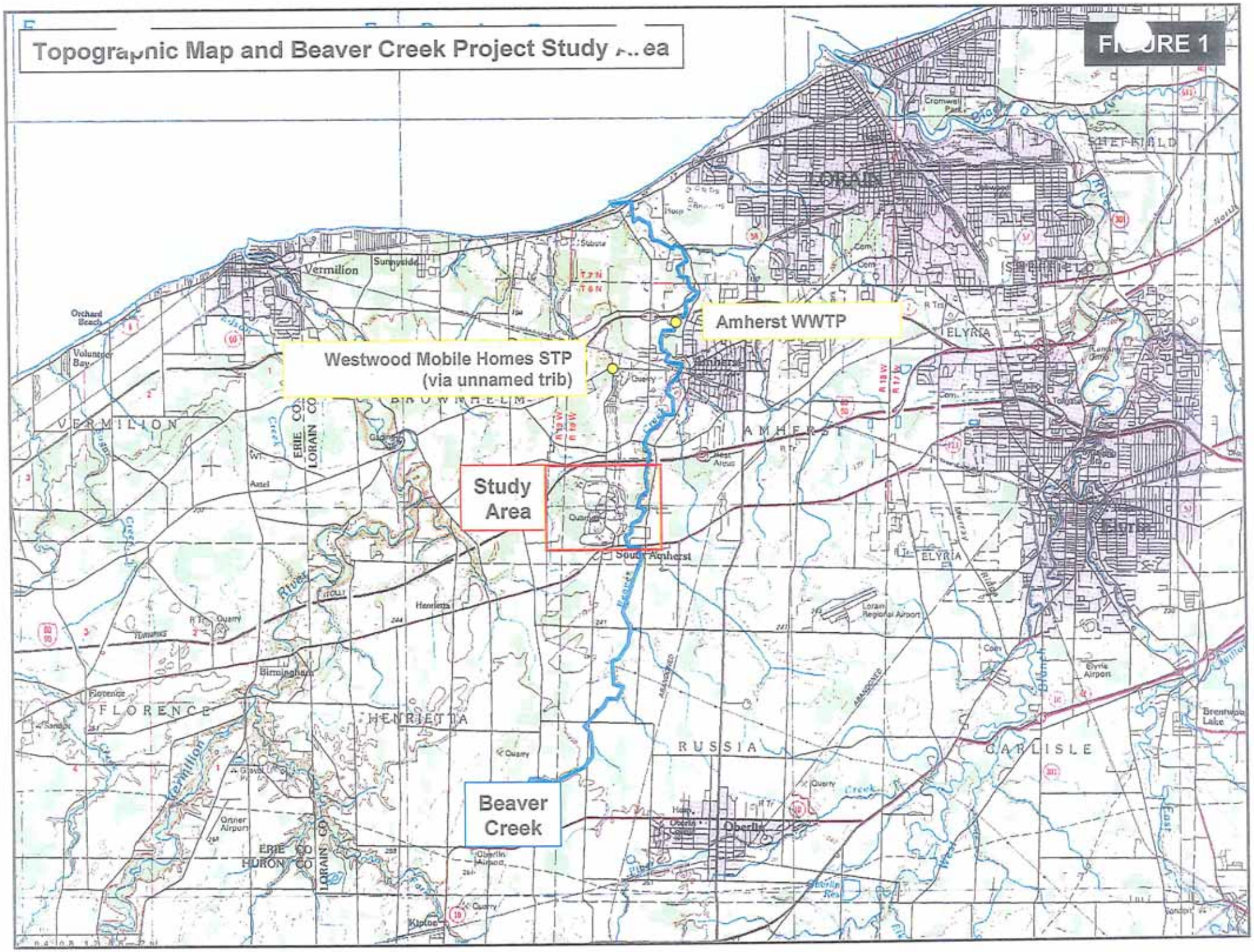
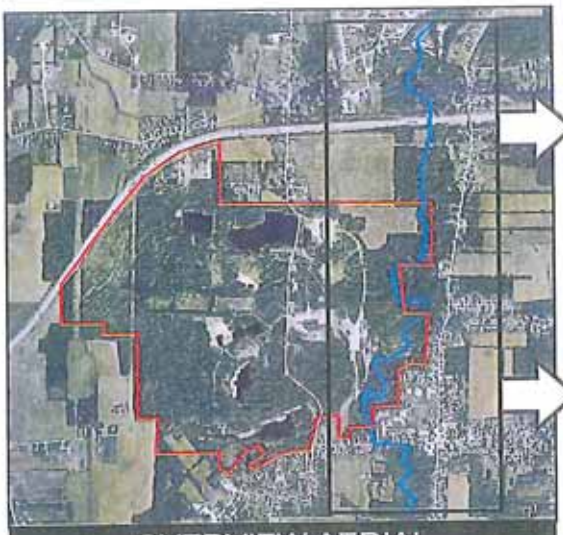

Topographic Map and Beaver Creek Project Study Area
FIGURE 1
Amherst WWTP
Westwood Mobile Homes STP
(via unnamed trib)
Study
Area
Beaver
Creek
LORAIN
ELYRIA
AMHERST
South Amherst
VERMILION
FLORENCE
HENRIETTA
RUSSIA
CARLISLE
Oberlin
Vermilion
Sunnyside
Orchard Beach
Volunteer Bay
Birmingham
Florence
Henrietta
Kipton
Cromwell Park
Brentwood Lake
Elyria Airport
Loram Regional Airport
Oberlin Airport
Ortner Airport
ERIE CO
LORAIN CO
HURON CO
Vermilion River
Beaver Creek

FIGURE 2

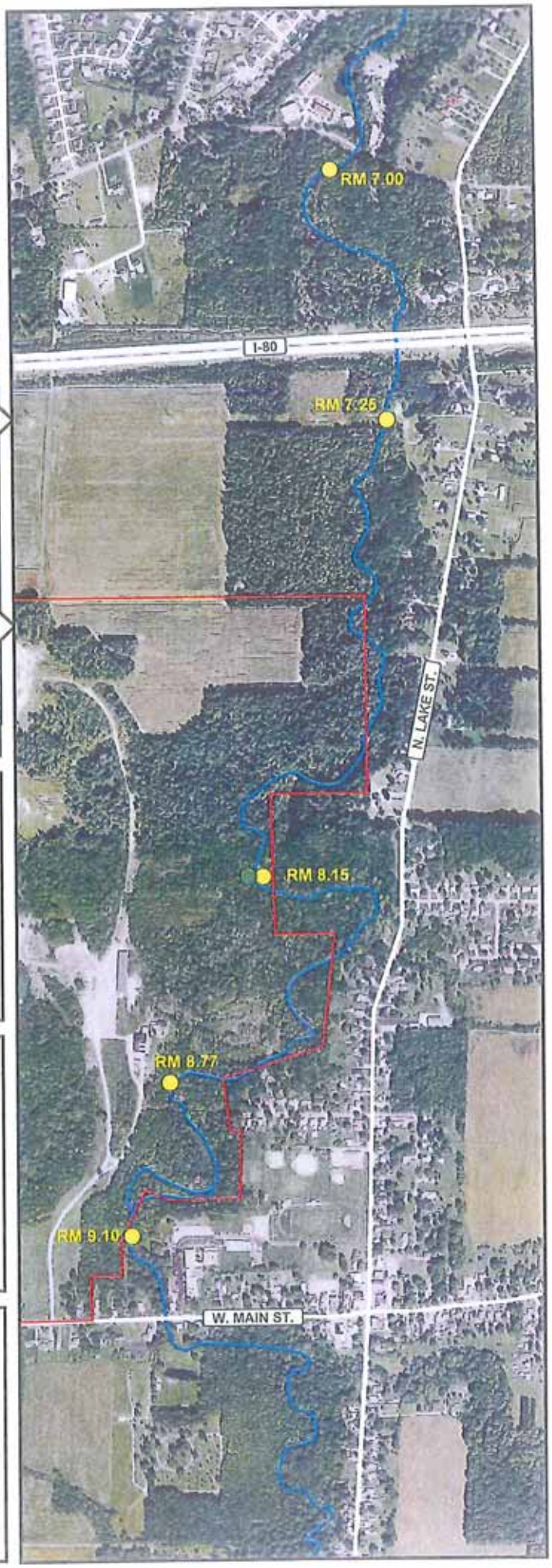
THE QUARRIES AT BEAVER CREEK

SOUTH AMHERST, OH

DETAILED MAP OF PROJECT AREA AND BEAVER CREEK WITH APPROXIMATE LOCATIONS OF WWTP AND DISCHARGE LOCATION



OVERVIEW AERIAL



- APPROXIMATE PROJECT AREA
- BEAVER CREEK
- PROPOSED WWTP DISCHARGE LOCATION
- STREAM CHEMISTRY MONITORING LOCATION & APPROX. RIVER MILE

N

0 500 1,000 2,000

SCALE (FEET)

AMENDOLA ENGINEERING INC.

DWG NO.
AEI-2008-07-009

JULY 23, 2008

REVISION	DATE	DESCRIPTION
1	08.05.08	ADDED MONITORING LOCATIONS

FIGURE 3

THE QUARRIES AT BEAVER CREEK

SOUTH AMHERST, OH

CREEK SURVEY SEGMENTS

(1) MEASURE ELEVATIONS AT START AND END OF EACH SEGMENT

(2) MEASURE WIDTH & DEPTH AT 2 SETS OF POOLS/RIFFLES IN EACH SEGMENT

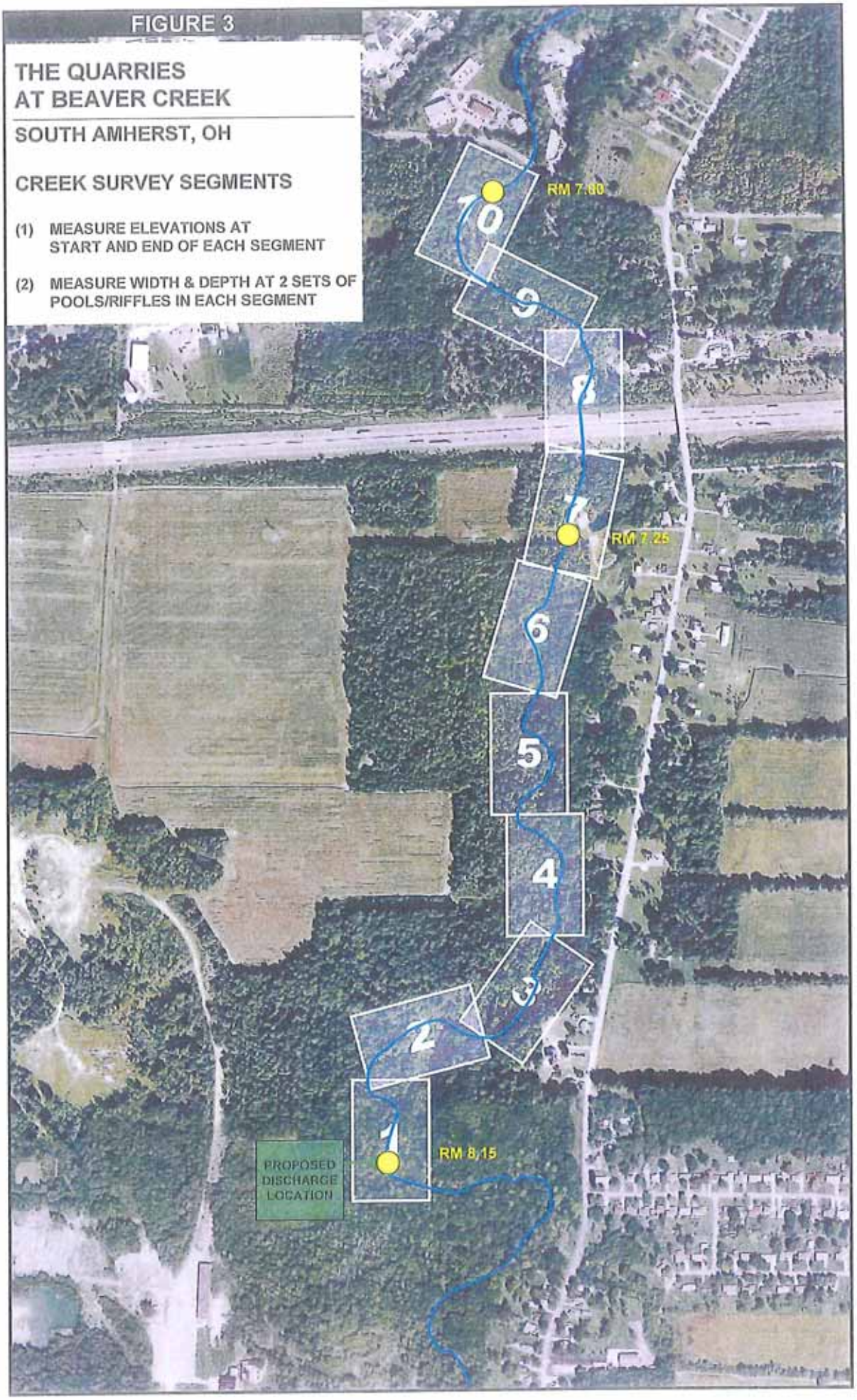
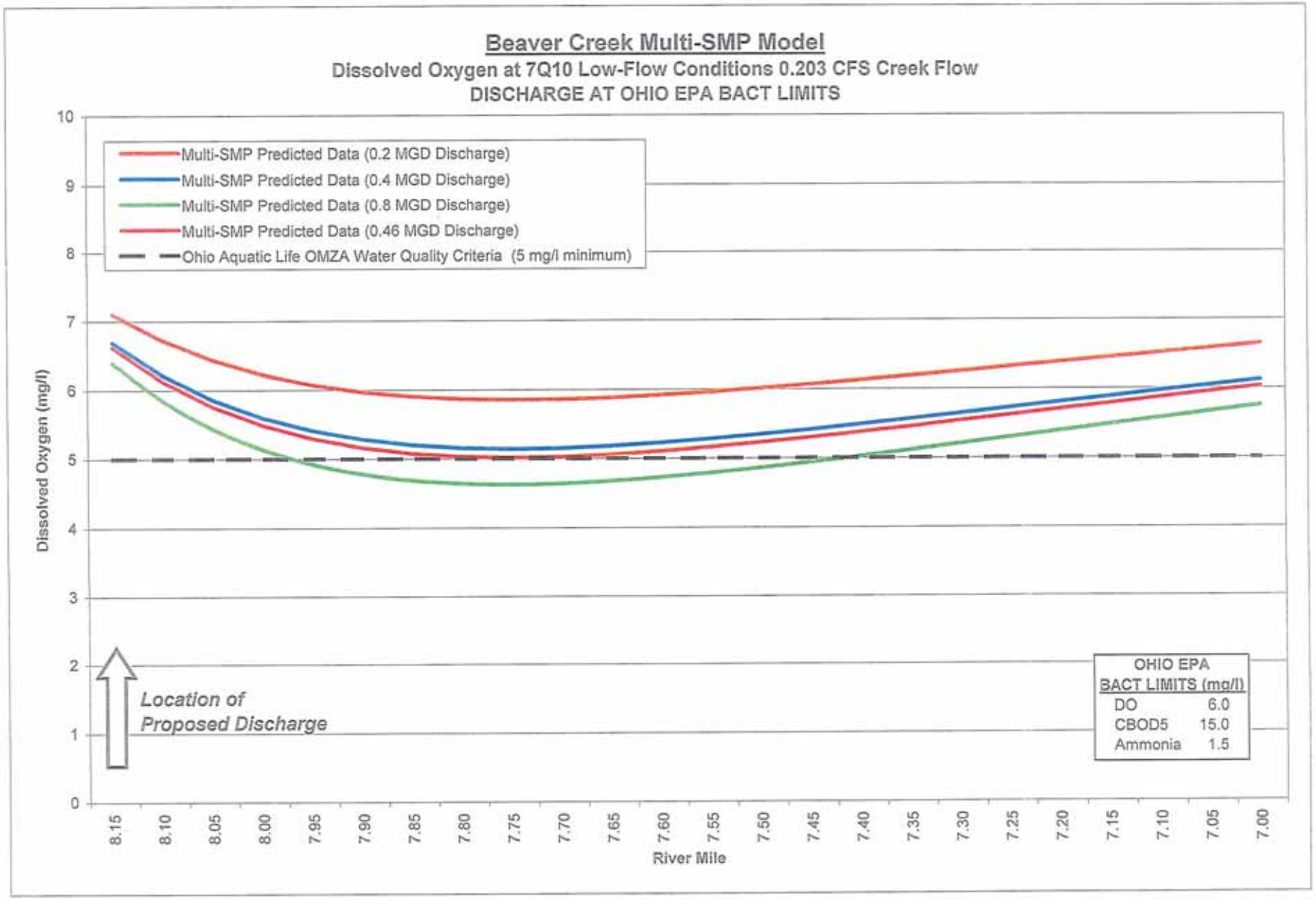


FIGURE 4


Beaver Creek Multi-SMP Model
Dissolved Oxygen at 7Q10 Low-Flow Conditions 0.203 CFS Creek Flow
DISCHARGE AT OHIO EPA BACT LIMITS
Multi-SMP Predicted Data (0.2 MGD Discharge)
Multi-SMP Predicted Data (0.4 MGD Discharge)
Multi-SMP Predicted Data (0.8 MGD Discharge)
Multi-SMP Predicted Data (0.46 MGD Discharge)
Ohio Aquatic Life OMZA Water Quality Criteria (5 mg/l minimum)
Dissolved Oxygen (mg/l)
10
9
8
7
6
5
4
3
2
1
0
Location of
Proposed Discharge
OHIO EPA
BACT LIMITS (mg/l)
DO 6.0
CBOD5 15.0
Ammonia 1.5
8.15
8.10
8.05
8.00
7.95
7.90
7.85
7.80
7.75
7.70
7.65
7.60
7.55
7.50
7.45
7.40
7.35
7.30
7.25
7.20
7.15
7.10
7.05
7.00
River Mile

FIGU. 5

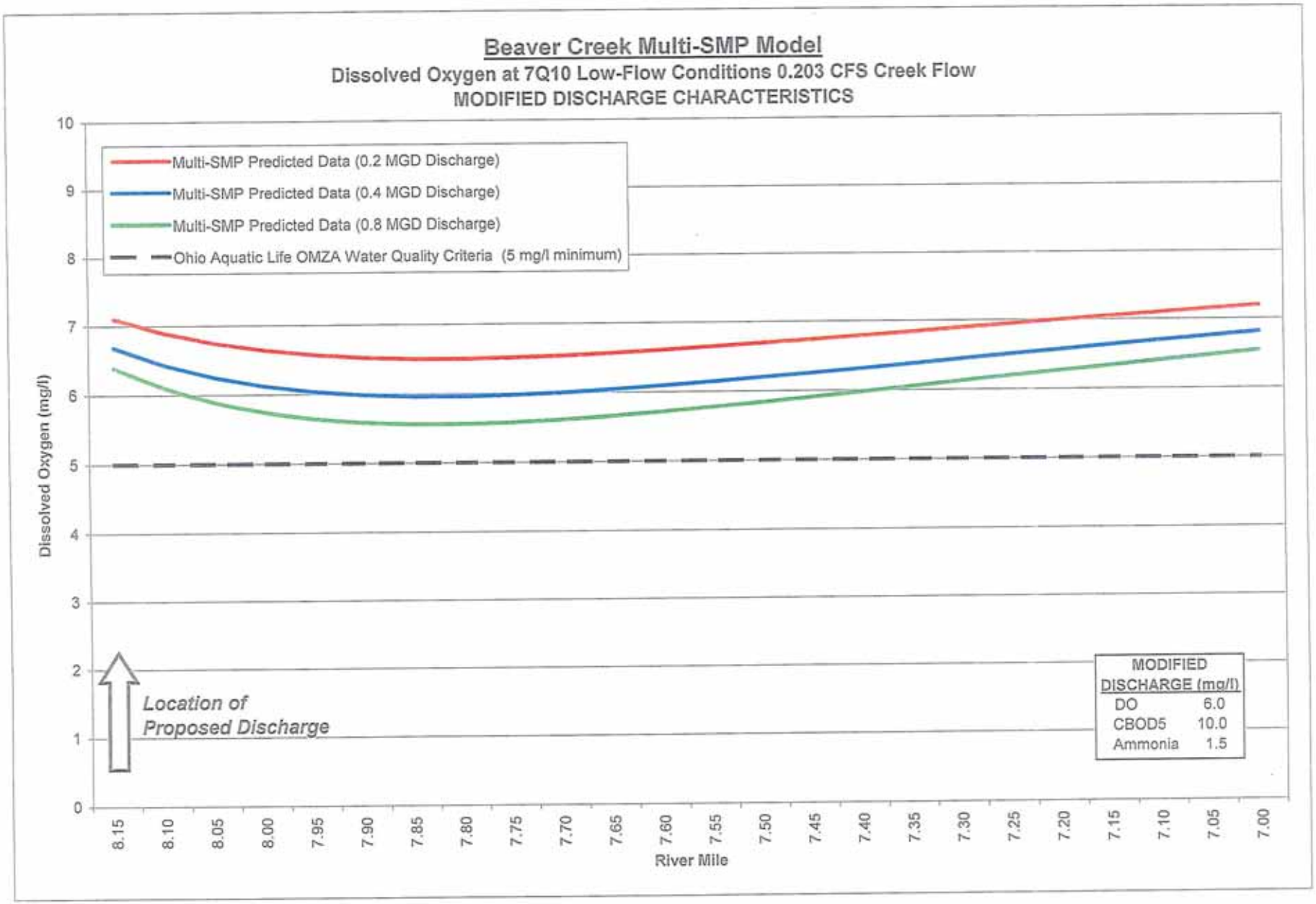

Beaver Creek Multi-SMP Model
Dissolved Oxygen at 7Q10 Low-Flow Conditions 0.203 CFS Creek Flow
MODIFIED DISCHARGE CHARACTERISTICS
Multi-SMP Predicted Data (0.2 MGD Discharge)
Multi-SMP Predicted Data (0.4 MGD Discharge)
Multi-SMP Predicted Data (0.8 MGD Discharge)
Ohio Aquatic Life OMZA Water Quality Criteria (5 mg/l minimum)
Dissolved Oxygen (mg/l)
10
9
8
7
6
5
4
3
2
1
0
Location of
Proposed Discharge
MODIFIED
DISCHARGE (mg/l)
DO 6.0
CBOD5 10.0
Ammonia 1.5
8.15
8.10
8.05
8.00
7.95
7.90
7.85
7.80
7.75
7.70
7.65
7.60
7.55
7.50
7.45
7.40
7.35
7.30
7.25
7.20
7.15
7.10
7.05
7.00
River Mile

FIGURE 6

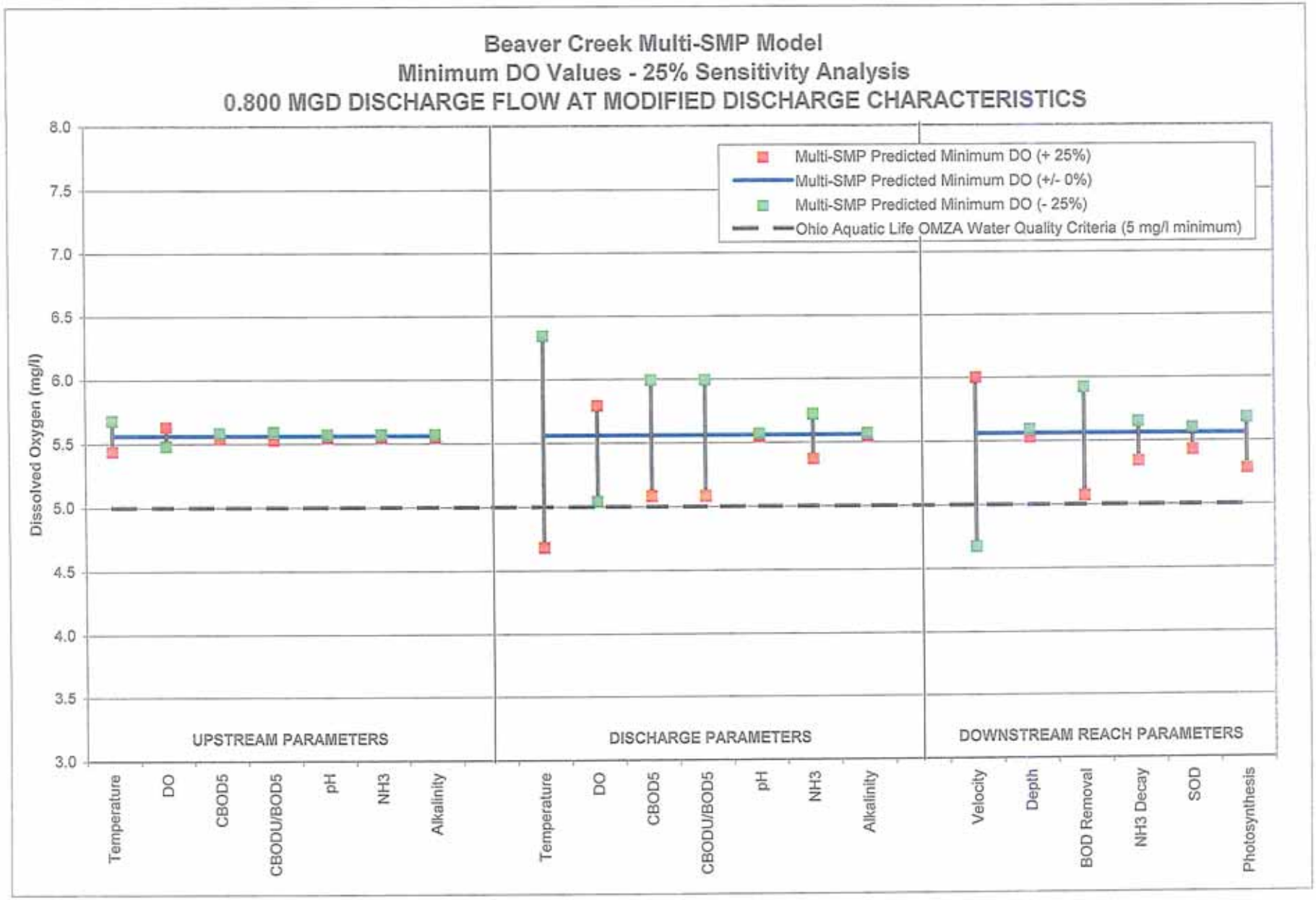

Beaver Creek Multi-SMP Model
Minimum DO Values - 25% Sensitivity Analysis
0.800 MGD DISCHARGE FLOW AT MODIFIED DISCHARGE CHARACTERISTICS
Multi-SMP Predicted Minimum DO (+ 25%)
Multi-SMP Predicted Minimum DO (+/- 0%)
Multi-SMP Predicted Minimum DO (- 25%)
Ohio Aquatic Life OMZA Water Quality Criteria (5 mg/l minimum)
Dissolved Oxygen (mg/l)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
UPSTREAM PARAMETERS
DISCHARGE PARAMETERS
DOWNSTREAM REACH PARAMETERS
Temperature
DO
CBOD5
CBODU/BOD5
pH
NH3
Alkalinity
Temperature
DO
CBOD5
CBODU/BOD5
pH
NH3
Alkalinity
Velocity
Depth
BOD Removal
NH3 Decay
SOD
Photosynthesis

FIGURE 6

Beaver Creek Dissolved Oxygen Modeling
Multi-SMP Model Sensitivity Analysis

Predicted Minimum DO Values

Model Parameter	Output Minimum DO (mg/l)	25% Minimum DO (mg/l)	-25% Minimum DO (mg/l)
Upstream Parameters			
Temperature	5.56	5.44	5.68
DO	5.56	5.63	5.48
$CBOD_5$	5.56	5.54	5.58
$CBOD_U/BOD_5$	5.56	5.53	5.59
pH	5.56	5.55	5.57
NH_3	5.56	5.55	5.57
Alkalinity	5.56	5.55	5.57
Effluent Parameters			
Temperature	5.56	4.68	6.34
DO	5.56	5.79	5.04
$CBOD_5$	5.56	5.08	5.99
$CBOD_U/BOD_5$	5.56	5.08	5.99
pH	5.56	5.55	5.57
NH_3	5.56	5.37	5.72
Alkalinity	5.56	5.55	5.57
Reach Parameters			
Velocity	5.56	6.00	4.67
Depth	5.56	5.53	5.59
BOD Removal	5.56	5.07	5.92
NH_3 Decay	5.56	5.34	5.65
SOD	5.56	5.43	5.60
Photosynthesis	5.56	5.28	5.68

Input Values

Model Parameter	+/- 0% Input	+ 25% DO (mg/l)	- 25% DO (mg/l)
Upstream Parameters			
Temperature	16.57	20.71	12.43
DO	8.78	10.98	6.59
$CBOD_5$	2.00	2.50	1.50
$CBOD_U/BOD_5$	2.75	3.44	2.06
pH	8.17	10.21	6.13
NH_3	0.12	0.15	0.09
Alkalinity	133.00	166.25	99.75
Effluent Parameters			
Temperature	20.00	25.00	15.00
DO	6.00	7.50	4.50
$CBOD_5$	10.00	12.50	7.50
$CBOD_U/BOD_5$	2.30	2.88	1.73
pH	8.00	10.00	6.00
NH_3	1.50	1.88	1.13
Alkalinity	100.00	125.00	75.00
Reach Parameters			
Velocity	0.04	0.05	0.03
Depth	0.68	0.85	0.51
BOD Removal	0.40	0.50	0.30
NH_3 Decay	0.55	0.69	0.41
SOD	0.15	0.19	0.11
Photosynthesis*	0.00	-0.74	0.74

** Photosynthesis input ranges from -0.74 to +0.74 based on calculations from field data collected by data sondes.*

THE QUARRIES AT BEAVER CREEK

DISSOLVED OXYGEN MODELING FOR PROPOSED DISCHARGE OF DOMESTIC WASTEWATER TO BEAVER CREEK

APPENDIX A	BEAVER CREEK PHOTO LOG
APPENDIX B	BEAVER CREEK WATER QUALITY DATA
APPENDIX C	OHIO EPA-CALCULATED LOW FLOW STATISTICS
APPENDIX D	NORTHEAST OHIO POTW DATA AND MAP
APPENDIX E	BEAVER CREEK LOW-FLOW VELOCITY CALCULATIONS
APPENDIX F	BEAVER CREEK LOW-FLOW DEPTH CALCULATIONS
APPENDIX G	BEAVER CREEK PHOTOSYNTHESIS/RESPIRATION RATE CALCULATIONS

APPENDIX A
Beaver Creek Site Photos
(Photos Shown from Upstream to Downstream)

Photo 1: Upstream Beaver Creek above former dam

Photo 2: Downstream Beaver Creek

APPENDIX A
Beaver Creek Site Photos
(Photos Shown from Upstream to Downstream)

Photo 3: Upstream Beaver Creek (same location as photo 2)

Photo 4: Upstream Beaver Creek

APPENDIX A
Beaver Creek Site Photos
(Photos Shown from Upstream to Downstream)

Photo 5: Downstream Beaver Creek

Photo 6: Downstream Beaver Creek (same location as photo 5)

APPENDIX A
Beaver Creek Site Photos
(Photos Shown from Upstream to Downstream)

Photo 7: Braided section of Beaver Creek, located between photos 3 & 4

Photo 8: Braided section of Beaver Creek

APPENDIX A
Beaver Creek Site Photos
(Photos Shown from Upstream to Downstream)

Photo 9: Braided section of Beaver Creek, near confluence with Beaver Creek

APPENDIX B

Beaver Creek Water Quality Data Summary

Samples Collected 09/24/2008 — *Field-Calculated Flow: 0.36 cfs*

Parameter	Reporting Limit	UPSTREAM RM 9.10	RM 8.77	RM 8.15	RM 7.25	DOWNSTREAM RM 7.00
Temperature (Deg C)	-	16.350	16.730	16.570	20.370	16.810
pH (s.u.)	-	7.880	8.000	8.170	8.630	8.350
DO, Instantaneous (mg/l)		6.080	6.820	8.780	12.040	9.940
Conductivity (mS/cm)		578.000	584.000	534.000	352.000	574.000
Alkalinity, Total (mg/l)	10.000	138.000	136.000	133.000	130.000	132.000
BOD_5, Carbonaceous (mg/l)	2.000	2.000	2.000	2.000	1.000	2.000
BOD_U, Carbonaceous (mg/l)	2.000	17.300	16.300	6.500	12.300	13.000
Ammonia-Nitrogen (mg/l)	0.100	0.125	0.050	0.115	0.050	0.117
Nitrate + Nitrite (mg/l)	0.050	0.628	1.050	0.907	0.735	0.622
Phosphorus, Total (mg/l)	0.020	0.138	0.158	0.132	0.099	0.078
Total Kjeldahl Nitrogen (mg/l)	0.200	0.822	0.783	0.803	0.651	0.622
Total Suspended Solids (mg/l)	4.000	3.000	4.000	5.000	3.000	2.000

Samples Collected 10/13/2008 — *Field-Calculated Flow: 0.40 cfs*

Parameter	Reporting Limit	UPSTREAM RM 9.10	RM 8.77	RM 8.15	RM 7.25	DOWNSTREAM RM 7.00
Temperature (Deg C)	-	13.000		13.560		13.350
pH (s.u.)	-	7.580		11.580		8.140
DO, Instantaneous (mg/l)		6.890		10.160		11.860
Conductivity (mS/cm)		675.000		649.000		765.000
Alkalinity, Total (mg/l)	10.000	140.000	146.000	144.000	140.000	144.000
BOD_5, Carbonaceous (mg/l)	2.000	1.000	1.000	1.000	1.000	1.000
BOD_U, Carbonaceous (mg/l)	2.000	16.000	14.000	7.300	22.300	11.300
Ammonia-Nitrogen (mg/l)	0.100	0.050	0.050	0.050	0.050	0.050
Nitrate + Nitrite (mg/l)	0.050	0.418	0.619	0.840	0.025	0.549
Phosphorus, Total (mg/l)	0.020	0.133	0.010	0.133	0.093	0.080
Total Kjeldahl Nitrogen (mg/l)	0.200	0.616	0.733	0.571	0.754	0.590
Total Suspended Solids (mg/l)	4.000	2.000	2.000	2.000	2.000	2.000

Equipment error as described in Attachment A

Samples Collected 10/24/2008 — *Field-Calculated Flow: 0.85 cfs*

Parameter	Reporting Limit	UPSTREAM RM 9.10	RM 8.77	RM 8.15	RM 7.25	DOWNSTREAM RM 7.00	DUP RM 9.10	MS/MSD RM 8.77	DUP RM 8.15	DUP RM 7.00	FIELD BLANK
Temperature (Deg C)	-	7.820	8.080	8.120	8.080	8.050					
pH (s.u.)	-	7.630	8.910	8.040	8.480	8.300					
DO, Instantaneous (mg/l)		6.930	10.720	11.420	13.570	13.700					
Conductivity (mS/cm)		640.000	575.000	609.000	583.000	606.000					
Alkalinity, Total (mg/l)	10.000	125.000	121.000	118.000	138	136.000	120.000	120.000	136.000	136.000	5.000
BOD_5, Carbonaceous (mg/l)	2.000	2.000	1.000	2.000	1.000	1.000	2.000	2.000	2.000	2.000	1.000
BOD_U, Carbonaceous (mg/l)	2.000	5.500	3.000	12.000	11.000	3.000	5.000	5.000	10.000		4.000
Ammonia-Nitrogen (mg/l)	0.100	0.177	*0.117*	0.050	0.050	*0.269*	0.050	0.102	0.050	0.050	0.564
Nitrate + Nitrite (mg/l)	0.050	0.752	0.858	1.110	1.05	1.030	0.742	0.826	1.130	1.130	0.025
Phosphorus, Total (mg/l)	0.020	0.145	0.131	0.148	0.111	0.109	0.143	0.135	0.139	0.139	0.010
Total Kjeldahl Nitrogen (mg/l)	0.200	0.800	0.661	0.623	0.686	0.490	0.667	0.745	0.685	0.685	0.100
Total Suspended Solids (mg/l)	4.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	1.000	2.000

Average of 3 Samples Collected

Parameter	Reporting Limit	UPSTREAM RM 9.10	RM 8.77	RM 8.15	RM 7.25	DOWNSTREAM RM 7.00
Temperature (Deg C)	-	12.390	12.405	12.750	14.225	12.737
pH MIN (s.u.)	-	7.580	8.000	8.040	8.480	8.140
pH MAX (s.u.)	-	7.880	8.910	11.580	8.630	8.350
DO, Instantaneous (mg/l)		6.633	8.770	10.120	12.805	11.833
Conductivity (mS/cm)		631.000	579.500	597.333	467.500	648.333
Alkalinity, Total (mg/l)	10.000	134.333	134.333	131.667	135.333	138.000
BOD_5, Carbonaceous (mg/l)	2.000	1.667	1.333	1.667	1.000	1.500
BOD_U, Carbonaceous (mg/l)	2.000	12.933	11.100	8.600	15.200	9.100
Ammonia-Nitrogen (mg/l)	0.100	0.117	0.072	0.072	0.123	0.084
Nitrate + Nitrite (mg/l)	0.050	0.599	0.842	0.952	0.597	0.586
Phosphorus, Total (mg/l)	0.020	0.139	0.100	0.138	0.100	0.079
Total Kjeldahl Nitrogen (mg/l)	0.200	0.746	0.726	0.666	0.632	0.606
Total Suspended Solids (mg/l)	4.000	2.333	2.667	3.000	2.333	2.000

APPENDIX C
Ohio EPA-Calculated Low Flow Statistics for Beaver Creek

Critical Low Flow Calculation

Date: 8/7/2008
by: Paul Anderson, DSW, NEDO

Critical Low Flow Calculation for:
Amherst Quarries

Basis: USGS Gage Location 4200500 Black River @ Elyria
Watershed Area 396 sq. mi.

Critical Low Flows for Gage Station (cfs):	**1Q10**	**7Q10**	**30Q10**	**90Q10**
Summer	NA	4	5.3	NA
Winter	NA	12	19	NA
Annual	2.7	NA	NA	8.9

Harmonic Mean Flow for Gage Station (cfs): 28.4

Yields for Basin (cfs / sq. mi.)	**1Q10**	**7Q10**	**30Q10**	**90Q10**
Summer	NA	0.010	0.013	NA
Winter	NA	0.030	0.048	NA
Annual	0.007	NA	NA	0.022

Yields for Harmonic Mean Flow (cfs/sq. mi): 0.072

Drainage Area ust. Discharge (sq. mi.): 20.100

Critical Low Flows Upstream of Discharge (cfs):	**1Q10**	**7Q10**	**30Q10**	**90Q10**
Summer	NA	0.203	0.269	NA
Winter	NA	0.609	0.964	NA
Annual	0.137	NA	NA	0.452

Harmonic Mean Flow (cfs): 1.442

Critical Low Flows Upstream of Discharge (mgd):	**1Q10**	**7Q10**	**30Q10**	**90Q10**
Summer	NA	0.131	0.174	NA
Winter	NA	0.394	0.623	NA
Annual	0.089	NA	NA	0.292

Harmonic Mean Flow (mgd): 0.932

APPENDIX D

Ohio POTW Final Effluent Data

Data obtained from USEPA Permit Compliance System Database

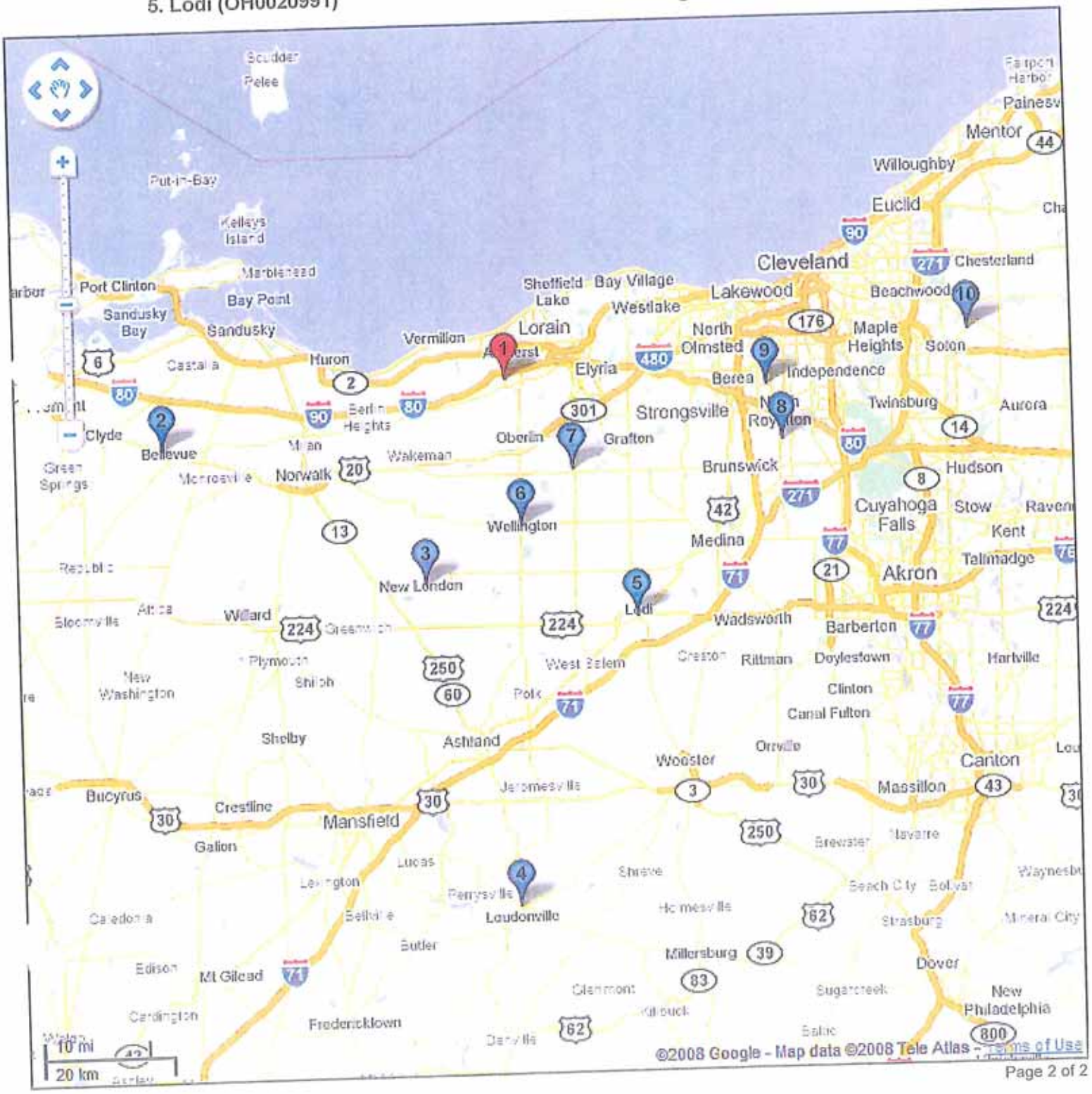
Facility	County	NPDES	Flow mgd	Avg Summer Data (2007-08) Temp deg C	pH (median) s.u.	Alk. mg/l
LaGrange	Lorain	OH0046221	0.30	19.5	7.9	not avail.
Chagrin Falls	Cuyahoga	OH0021741	0.39	20.8	8.2	not avail.
Village of Loudenville	Ashland	OH0030996	0.39	19.2	7.8	not avail.
Village of Lodi	Medina	OH0020991	0.44	19.8	7.5	not avail.
City of North Royalton	Cuyahoga	OH0026808	0.48	20.1	8.2	not avail.
Village of New London	Huron	OH0020737	0.48	20.6	7.6	not avail.
Village of Wellington	Lorain	OH0028037	0.69	18.7	7.9	not avail.
City of Bellevue	Huron	OH0020672	1.11	19.4	7.2	not avail.
Medina Cty SD	Medina	OH0045748	1.43	19.1	7.4	not avail.
		Avg:	0.63	19.68	7.74	not avail.
		Min:	0.30	18.67	7.24	not avail.
		Max:	1.43	20.77	8.17	not avail.
		Multi-SMP Model Sensitivity:		high	minimal	minimal
		Model Input Values:		**20.0**	**8.0**	**100**

APPENDIX D

Northeast Ohio POTW Map

cations of comparably-sized POTWs for which data were collected to determine typical discharge characteristics for proposed Beaver Creek wastewater treatment plant.

1. Proposed Beaver Creek Discharge
2. Bellevue (OH0020672)
3. New London (OH0020737)
4. Loudonville (OH0030996)
5. Lodi (OH0020991)
6. Wellington (OH0028037)
7. LaGrange (OH0046221)
8. Medina (OH0045748)
9. North Royalton (OH0026808)
10. Chagrin Falls (OH0021741)



APPENDIX E

Beaver Creek Slope, Velocity, and Time of Travel Calculations

Data Collected November 19, 2008 (3.10 cfs)

Segment No.	Segment Length (ft)	Slope (ft/segment)	Slope %	Black R. Flow (cfs)	Drainage Basin Ratio (OEPA)	Est Beaver Cr. Flow (cfs)	Velocity (fps)	Time of Travel (minutes)	Time of Travel (hours)
1	839	8.04	0.96%	61	19.70	3.10	0.75	19	0.31
2	542	6.64	1.23%	61	19.70	3.10	*0.98*	9.2	0.15
3	826	6.61	0.80%	61	19.70	3.10	*0.64*	21	0.36
4	703	5.68	0.81%	61	19.70	3.10	*0.65*	18	0.30
5	759	4.47	0.59%	61	19.70	3.10	0.39	32	0.54
6	872	7.91	0.91%	61	19.70	3.10	*0.73*	20	0.33
7	680	4.24	0.62%	61	19.70	3.10	*0.50*	23	0.38
8	738	2.86	0.39%	61	19.70	3.10	*0.31*	40	0.66
9	759	5.42	0.71%	61	19.70	3.10	*0.57*	22	0.37
10	860	3.69	0.43%	61	19.70	3.10	0.45	32	0.53
						Average	0.60		

Critical Low Flow Conditions (7Q10: 0.203 cfs)

Segment No.	Segment Length (ft)	Slope (ft/segment)	Slope %	Black R. Flow (cfs)	Drainage Basin Ratio (OEPA)	Est Beaver Cr. Flow (cfs)	Velocity (fps)	Time of Travel (minutes)	Time of Travel (hours)
1	839	8.04	0.96%	4	19.70	0.203	0.05	284	4.7
2	542	6.64	1.23%	4	19.70	0.203	*0.06*	140	2.3
3	826	6.61	0.80%	4	19.70	0.203	*0.04*	327	5.5
4	703	5.68	0.81%	4	19.70	0.203	*0.04*	276	4.6
5	759	4.47	0.59%	4	19.70	0.203	0.03	495	8.2
6	872	7.91	0.91%	4	19.70	0.203	*0.05*	305	5.1
7	680	4.24	0.62%	4	19.70	0.203	*0.03*	346	5.8
8	738	2.86	0.39%	4	19.70	0.203	*0.02*	604	10.1
9	759	5.42	0.71%	4	19.70	0.203	*0.04*	337	5.6
10	860	3.69	0.43%	4	19.70	0.203	0.03	486	8.1
						Average	0.04		

Notes: (1) Velocities shown in red are estimated based on the ratio of measured velocity to slope at segments 1, 5, & 10, respectively. The estimated velocities are calculated using the average ratio of the three measured segments.

(2) Velocities under low flow conditions were calculated using the following formula:

velocity @ 0.203 cfs = [measured velocities @3.10 cfs x (0.203 cfs / 3.10 cfs)]

APPENDIX F

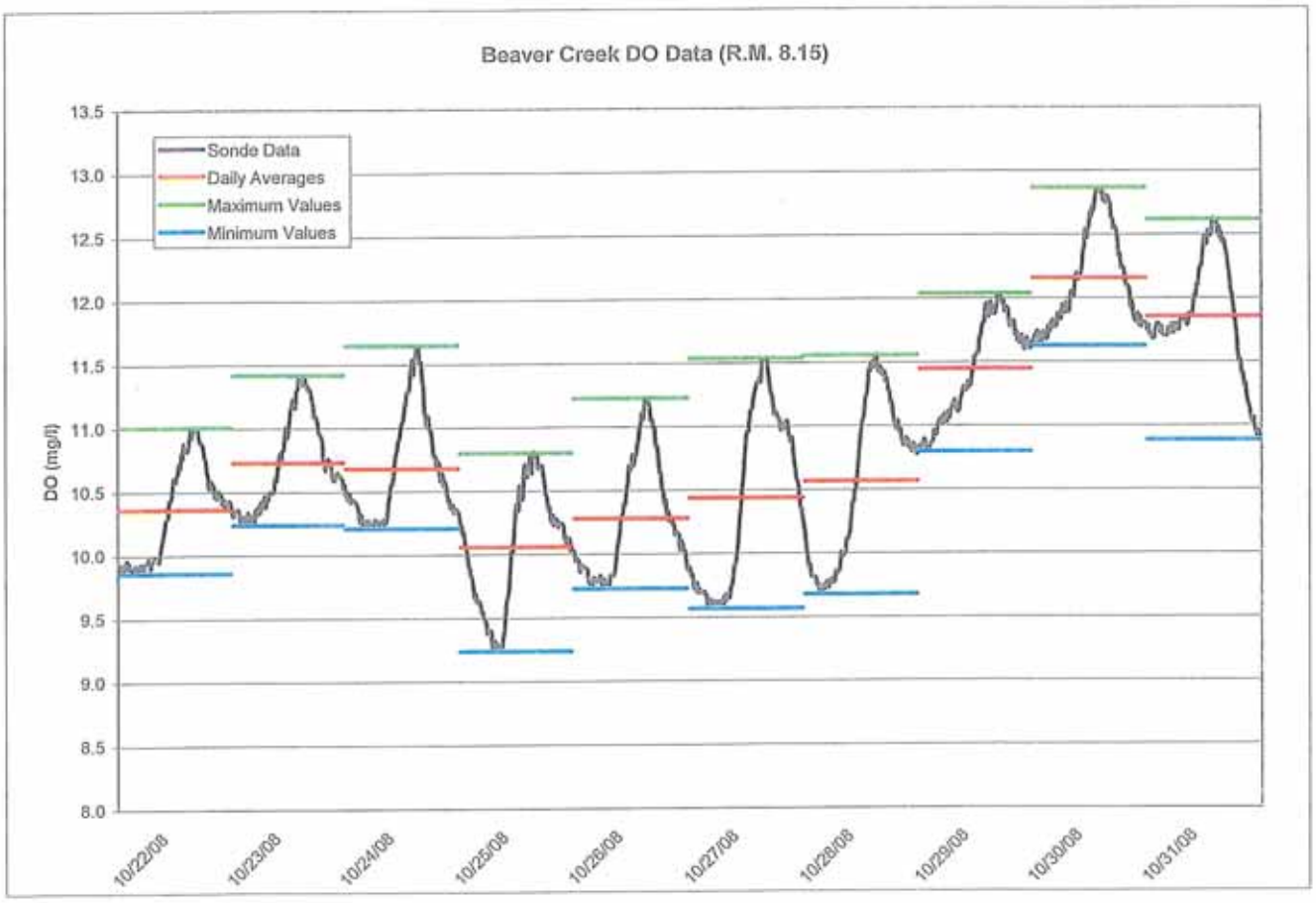
BEAVER CREEK
LOW FLOW DEPTH ESTIMATION

BEAVER CREEK SEGMENT	0.203 cfs Estimated DEPTH IN (AVG)	11/06/08 1.01 cfs Measured DEPTH IN (AVG)	11/19/08 3.10 cfs Measured DEPTH IN (AVG)	11/19/08 3.10 cfs Field-Adjusted DEPTH IN (AVG)
1a Pool	10.20	12.00		*18.00*
1a Riffle	2.20	4.00		*10.00*
1b Pool	6.20	8.00		*14.00*
1b Riffle	1.20	3.00		*9.00*
2b Pool	15.20	17.00		*23.00*
2b Riffle	0.00	1.50		*7.50*
3a Pool	7.20	9.00		*15.00*
3a Riffle	0.00	1.00		*7.00*
3b Pool	6.20	8.00		*14.00*
3b Riffle	1.20	3.00		*9.00*
5a Pool	30.20	32.00		*38.00*
5a Riffle	1.20	3.00		*9.00*
5b Pool	15.20	17.00	23.00	23.00
5b Rifffle	2.20	4.00	10.00	10.00
6a Pool	14.20	16.00	22.00	22.00
6a Riffle	0.20	2.00	8.00	8.00
7b Pool	8.20	10.00		*16.00*
7b Riffle	1.70	3.50		*9.50*
8b Pool	0.00	1.00		*7.00*
8b Riffle	2.20	4.00		*10.00*
9a Pool	20.20	22.00		*28.00*
9a Riffle	0.20	2.00		*8.00*
10b Pool	8.20	10.00		*16.00*
10b Riffle	0.20	2.00		*8.00*
Avg Depth (in):	6.40	8.28		14.13
Avg Depth (ft):	0.53	0.69		1.18
Stream Flow (cfs):	0.203	1.01		3.10

APPENDIX G

Continuous DO Data (mg/l) and Protosynthesis/Respiration Rate Calculation at Beaver Creek R.M. 8.15

Date	DO Maximum	DO Average	DO Minimum	Variation Average
10/22/2008	11.01	10.36	9.86	0.58
10/23/2008	11.42	10.73	10.24	0.59
10/24/2008	11.65	10.68	10.21	0.72
10/25/2008	10.80	10.06	9.24	0.78
10/26/2008	11.23	10.28	9.73	0.75
10/27/2008	11.54	10.44	9.57	0.98
10/28/2008	11.56	10.57	9.68	0.94
10/29/2008	12.04	11.45	10.80	0.62
10/30/2008	12.87	12.16	11.63	0.62
10/31/2008	12.62	11.86	10.89	0.86
			10-Day Average	0.74



THE QUARRIES AT BEAVER CREEK

DISSOLVED OXYGEN MODELING FOR PROPOSED DISCHARGE OF DOMESTIC WASTEWATER TO BEAVER CREEK

EXHIBIT A	PRECISION ANALYTICAL, INC. DATA REPORTS
EXHIBIT B	BEAVER CREEK CONTINUOUS DISSOLVED OXYGEN DATA (SECOND DEPLOYMENT)
EXHIBIT C	BEAVER CREEK PHYSICAL MEASUREMENT SURVEY DATA
EXHIBIT D	MULTI-SMP MODEL OUTPUT FILES
EXHIBIT E	BEAVER CREEK CONTINUOUS DISSOLVED OXYGEN DATA (FIRST DEPLOYMENT)

EXHIBIT A
Ohio EPA Level 3 Credible Data Program Summary

Ohio EPA advised the project team that the background water quality data for this project should be developed according to Level 3 of the Agency's credible data program. A Level 3 project study plan was developed and presented in the *Quality Assurance Project Plan and Work Plan for Dissolved Oxygen Water Quality Modeling, The Quarries at Beaver Creek (Work Plan)*, submitted to Ohio EPA on September 4, 2009 and was approved on January 27, 2009.

In summary, the work plan specifies sample collection and chemical analyses procedures to assure compliance with Level 3 guidelines set out at OAC 3745-4-06, Appendix A. The following presents a summary of the Level 3 Credible Data Program objectives applicable to this project:

- Physical measurements and sample collection were performed and/or supervised by a Level 3 qualified data collector (Joe Papineau, EnviroScience)
- Quality assurance/quality control measures referenced in the Work Plan were followed by the QDC
- Field equipment accuracy specified in the Work Plan was achieved
- Required sampling location information (river mile, USGS quad name, etc) was obtained for all sampling locations
- A digital photo catalog of each sampling location was produced and is maintained by EnviroScience
- The Work Plan specified background water quality samples to be collected under low flow conditions during August to September 2008. Due to elevated flow conditions because of precipitation, samples were collected in September and October 2008
- Precision Analytical, Inc. (analytical laboratory certified under the Level 3 Credible Data Program) was used for analyses of all collected laboratory samples
- Analytical methods and target analytical detection limits specified in the Work Plan were achieved by the analytical laboratory (see Table 1 below)
- Analytical results of background water quality samples are presented in Appendix B to this report

EXHIBIT A
Ohio EPA Level 3 Credible Data Program Summary

Table 1
Field and Laboratory Data Quality Objectives

Parameter	Analytical Methods		Detection Level/Accuracy	
	Work Plan	Lab Reports	Work Plan	Lab/Field Data
Temperature, deg C	2550 B	2550 B	0.2	0.01
pH (s.u.)	2310 B	2310 B	0.1	0.01
Dissolved Oxygen, mg/L Instantaneous 24-hour record	 Probe Data Sonde	 Probe Data Sonde	 0.1 0.1	 0.01 0.01
Total Suspended Solids, mg/l	2540 D or 160.2	2540 D	2.0	2.0
Total Alkalinity, mg/L	2320 B or 310.1	2320	5.0	5.0
$CBOD_5$, mg/L	5210 B	5210 B	2.0	2.0
$CBOD_U$, mg/L	5210 C	5210 C	2.0	2.0
Total Kjeldahl Nitrogen, mg/L	4500-N_{ORG} B or 351.8	351.2	0.1	0.1
Ammonia-N, mg/L	4500-NH_3 B or 350.2	350.1	0.1	0.1
Nitrate + Nitrite-N, mg/L	4500-$N0_3$ E or 353.3	353.2	0.1	0.05
Total Phosphorus, mg/L	4500-P B 365.2	4500-P E	0.1	0.02

EXHIBIT B
Multi-SMP Model Input/Output Files

0.200 MGD Discharge Flow at Ohio BACT Concentrations

```
*********************************************************************
*                      SIMPLIFIED METHOD PROGRAM                    *
*                        COMPLETE INPUT LISTING                     *
*********************************************************************
```

--*-*-*-* Run Information *-*-*-*-*-*

Name of receiving stream ----------	Beaver Creek
Number of discharges ----------	1
Number of reaches ----------	1
Reaeration type ----------	Tsivoglou
Run title ----------	Beaver Cr. Low Flow

--*-*-*-* Upstream Parameters *-*-*-*-*-*

Parameter		Value	Comment
Flow	(cfs)	0.203	
Temperature	(øC)	16.570	
Dissolved Oxygen	(mg/l)	8.780	
5-Day BOD	(mg/l)	2.000	
Ult. CBOD / 5-Day BOD		3.250	
pH	(su)	8.170	
Ammonia	(mg/l)	0.115	
Alkalinity	(mg/l)	133.000	

--*-*-*-* Effluent Parameters *-*-*-*-*-*

Number of Discharges = 1

For Discharge Number 1 (The Quarries)

Parameter		Value	Comment
Flow	(MGD)	0.200	
Temperature	(øC)	20.000	
Dissolved Oxygen	(mg/l)	6.000	
5-Day BOD	(mg/l)	15.000	
Ult. CBOD / 5-Day BOD		2.300	
pH	(su)	8.000	
Ammonia	(mg/l)	1.500	
Alkalinity	(mg/l)	100.000	
Beginning of Reach Number		1.000	

--*-*-*-* Reach Information *-*-*-*-*-*

Number of Reaches = 1
Reaeration Type is Tsivoglou

For Reach Number 1

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	18.641	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.376
Temperature-corrected NH3 decay rate	(1/day)	0.495
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.787
Calculated reach-averaged width	(ft)	18.480

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	141.749	6.630	39.169	1.670	1.918	0.117
8.150	7.102		23.006		0.951	
8.770	38.113	8.770	32.559	1.330	1.503	0.072
8.100	6.724		22.371		0.917	
8.150	7.102	10.120	23.006	1.670	0.951	0.072
8.050	6.438		21.753		0.883	
8.000	6.226		21.152		0.851	
7.950	6.074		20.568		0.821	
7.900	5.969		20.000		0.791	
7.850	5.903		19.448		0.762	
7.800	5.867		18.911		0.734	
7.750	5.855		18.389		0.708	
7.700	5.863		17.881		0.682	
7.650	5.885		17.387		0.657	
7.600	5.920		16.907		0.634	
7.550	5.963		16.440		0.611	
7.500	6.014		15.986		0.589	
7.450	6.069		15.544		0.567	
7.400	6.129		15.115		0.547	
7.350	6.190		14.698		0.527	
7.300	6.254		14.292		0.508	
7.250	6.319	12.800	13.897	1.000	0.489	0.123
7.250	6.319		13.897		0.489	
7.200	6.384		13.513		0.472	
7.150	6.449		13.140		0.455	
7.100	6.514		12.777		0.438	
7.050	6.578		12.424		0.422	
7.000	6.642	11.830	12.081	1.500	0.407	0.084
7.000	6.642		12.081		0.407	

EXHIBIT B
Multi-SMP Model Input/Output Files

0.200 MGD Discharge Flow at Modified Concentrations

```
*********************************************************************
*                      SIMPLIFIED METHOD PROGRAM                    *
*                        COMPLETE INPUT LISTING                     *
*********************************************************************
```

```
 *-*-*-*-*-*  Run Information *-*-*-*-*-*

Name of receiving stream -------------------------------  Beaver Creek
Number of discharges -----------------------------------  1
Number of reaches --------------------------------------  1
Reaeration type ----------------------------------------  Tsivoglou
Run title ----------------------------------------------  Beaver Cr. Low Flow

 *-*-*-*-*-* Upstream Parameters *-*-*-*-*-*
                Parameter                    Value      Comment
  Flow                          (cfs)       0.203
  Temperature                     (øC)      16.570
  Dissolved Oxygen              (mg/l)       8.780
  5-Day BOD                     (mg/l)       2.000
  Ult. CBOD / 5-Day BOD                      2.750
  pH                              (su)       8.170
  Ammonia                       (mg/l)       0.115
  Alkalinity                    (mg/l)     133.000

 *-*-*-*-*-* Effluent Parameters *-*-*-*-*-*

 Number of Discharges =          1


For Discharge Number    1 (The Quarries)
                Parameter                    Value      Comment
    Flow                         (MGD)       0.200
  Temperature                     (øC)      20.000
  Dissolved Oxygen              (mg/l)       6.000
  5-Day BOD                     (mg/l)      10.000
  Ult. CBOD / 5-Day BOD                      2.300
  pH                              (su)       8.000
  Ammonia                       (mg/l)       1.500
  Alkalinity                    (mg/l)     100.000
    Beginning of Reach Number                1.000

 *-*-*-*-*-* Reach Information *-*-*-*-*-*

 Number of Reaches =          1
  Reaeration Type is Tsivoglou

For Reach Number    1
```

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	18.641	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.376
Temperature-corrected NH3 decay rate	(1/day)	0.495
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.787
Calculated reach-averaged width	(ft)	18.480

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	87.636	6.630	27.350	1.670	1.918	0.117
8.150	7.102		16.064		0.951	
8.770	25.433	8.770	22.734	1.330	1.503	0.072
8.100	6.897		15.621		0.917	
8.150	7.102	10.120	16.064	1.670	0.951	0.072
8.050	6.747		15.189		0.883	
8.000	6.641		14.770		0.851	
7.950	6.570		14.362		0.821	
7.900	6.527		13.965		0.791	
7.850	6.506		13.579		0.762	
7.800	6.504		13.204		0.734	
7.750	6.515		12.840		0.708	
7.700	6.537		12.485		0.682	
7.650	6.568		12.140		0.657	
7.600	6.605		11.805		0.634	
7.550	6.647		11.479		0.611	
7.500	6.693		11.162		0.589	
7.450	6.741		10.854		0.567	
7.400	6.791		10.554		0.547	
7.350	6.843		10.263		0.527	
7.300	6.895		9.979		0.508	
7.250	6.947	12.800	9.704	1.000	0.489	0.123
7.250	6.947		9.704		0.489	
7.200	6.999		9.436		0.472	
7.150	7.050		9.175		0.455	
7.100	7.101		8.922		0.438	
7.050	7.152		8.675		0.422	
7.000	7.201	11.830	8.436	1.500	0.407	0.084
7.000	7.201		8.436		0.407	

EXHIBIT B
Multi-SMP Model Input/Output Files

0.400 MGD Discharge Flow at Ohio BACT Concentrations

```
*********************************************************************
*                      SIMPLIFIED METHOD PROGRAM                    *
*                        COMPLETE INPUT LISTING                     *
*********************************************************************
```

```
 *-*-*-*-*-*  Run Information *-*-*-*-*-*

Name of receiving stream -------------------------------  Beaver Creek
Number of discharges ----------------------------------  1
Number of reaches -------------------------------------  1
Reaeration type ---------------------------------------  Tsivoglou
Run title ---------------------------------------------  Beaver Cr. Low Flow

 *-*-*-*-*-* Upstream Parameters *-*-*-*-*-*
                Parameter                    Value      Comment
  Flow                          (cfs)        0.203
  Temperature                     (øC)      16.570
  Dissolved Oxygen              (mg/l)       8.780
  5-Day BOD                     (mg/l)       2.000
  Ult. CBOD / 5-Day BOD                      2.750
  pH                              (su)       8.170
  Ammonia                       (mg/l)       0.115
  Alkalinity                    (mg/l)     133.000

 *-*-*-*-*-* Effluent Parameters *-*-*-*-*-*

 Number of Discharges =          1


For Discharge Number    1 (The Quarries)
                Parameter                    Value      Comment
    Flow                         (MGD)        0.400
  Temperature                     (øC)      20.000
  Dissolved Oxygen              (mg/l)       6.000
  5-Day BOD                     (mg/l)      15.000
  Ult. CBOD / 5-Day BOD                      2.300
  pH                              (su)       8.000
  Ammonia                       (mg/l)       1.500
  Alkalinity                    (mg/l)     100.000
    Beginning of Reach Number                1.000

 *-*-*-*-*-* Reach Information *-*-*-*-*-*

 Number of Reaches =          1
  Reaeration Type is Tsivoglou

For Reach Number    1
```

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	19.152	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.385
Temperature-corrected NH3 decay rate	(1/day)	0.515
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.821
Calculated reach-averaged width	(ft)	29.636

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	182.013	6.630	47.127	1.670	2.401	0.117
8.150	6.687		27.333		1.158	
8.770	46.473	8.770	39.002	1.330	1.864	0.072
8.100	6.214		26.560		1.114	
8.150	6.687	10.120	27.333	1.670	1.158	0.072
8.050	5.857		25.810		1.072	
8.000	5.593		25.080		1.032	
7.950	5.405		24.371		0.993	
7.900	5.276		23.682		0.955	
7.850	5.195		23.013		0.919	
7.800	5.152		22.363		0.885	
7.750	5.139		21.731		0.851	
7.700	5.149		21.116		0.819	
7.650	5.179		20.519		0.789	
7.600	5.222		19.939		0.759	
7.550	5.277		19.376		0.730	
7.500	5.341		18.828		0.703	
7.450	5.410		18.296		0.676	
7.400	5.484		17.779		0.651	
7.350	5.561		17.276		0.626	
7.300	5.640		16.788		0.603	
7.250	5.720	12.800	16.314	1.000	0.580	0.123
7.250	5.720		16.314		0.580	
7.200	5.801		15.852		0.558	
7.150	5.881		15.404		0.537	
7.100	5.961		14.969		0.517	
7.050	6.040		14.546		0.497	
7.000	6.118	11.830	14.135	1.500	0.479	0.084
7.000	6.118		14.135		0.479	

EXHIBIT B
Multi-SMP Model Input/Output Files

0.400 MGD Discharge Flow at Modified Concentrations

```
*********************************************************************
*                      SIMPLIFIED METHOD PROGRAM                    *
*                        COMPLETE INPUT LISTING                     *
*********************************************************************
```

```
 *-*-*-*-*-*  Run Information *-*-*-*-*-*

Name of receiving stream -------------------------------  Beaver Creek
Number of discharges -----------------------------------  1
Number of reaches --------------------------------------  1
Reaeration type ----------------------------------------  Tsivoglou
Run title ----------------------------------------------  Beaver Cr. Low Flow

 *-*-*-*-*-* Upstream Parameters *-*-*-*-*-*
                Parameter                    Value      Comment
  Flow                          (cfs)       0.203
  Temperature                     (øC)     16.570
  Dissolved Oxygen              (mg/l)       8.780
  5-Day BOD                     (mg/l)       2.000
  Ult. CBOD / 5-Day BOD                      2.750
  pH                              (su)       8.170
  Ammonia                       (mg/l)       0.115
  Alkalinity                    (mg/l)     133.000

 *-*-*-*-*-* Effluent Parameters *-*-*-*-*-*

 Number of Discharges =          1


For Discharge Number    1 (The Quarries)
                Parameter                    Value      Comment
    Flow                         (MGD)       0.400
  Temperature                     (øC)      20.000
  Dissolved Oxygen              (mg/l)       6.000
  5-Day BOD                     (mg/l)      10.000
  Ult. CBOD / 5-Day BOD                      2.300
  pH                              (su)       8.000
  Ammonia                       (mg/l)       1.500
  Alkalinity                    (mg/l)     100.000
    Beginning of Reach Number                1.000

 *-*-*-*-*-* Reach Information *-*-*-*-*-*

 Number of Reaches =          1
  Reaeration Type is Tsivoglou

For Reach Number    1
```

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	19.152	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.385
Temperature-corrected NH3 decay rate	(1/day)	0.515
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.821
Calculated reach-averaged width	(ft)	29.636

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	110.161	6.630	32.199	1.670	2.401	0.117
8.150	6.687		18.675		1.158	
8.770	29.892	8.770	26.648	1.330	1.864	0.072
8.100	6.435		18.147		1.114	
8.150	6.687	10.120	18.675	1.670	1.158	0.072
8.050	6.250		17.634		1.072	
8.000	6.120		17.136		1.032	
7.950	6.034		16.652		0.993	
7.900	5.983		16.181		0.955	
7.850	5.959		15.724		0.919	
7.800	5.956		15.279		0.885	
7.750	5.971		14.847		0.851	
7.700	6.000		14.428		0.819	
7.650	6.038		14.020		0.789	
7.600	6.085		13.624		0.759	
7.550	6.137		13.238		0.730	
7.500	6.194		12.864		0.703	
7.450	6.253		12.501		0.676	
7.400	6.315		12.147		0.651	
7.350	6.378		11.804		0.626	
7.300	6.442		11.470		0.603	
7.250	6.505	12.800	11.146	1.000	0.580	0.123
7.250	6.505		11.146		0.580	
7.200	6.569		10.831		0.558	
7.150	6.632		10.525		0.537	
7.100	6.694		10.227		0.517	
7.050	6.755		9.938		0.497	
7.000	6.814	11.830	9.658	1.500	0.479	0.084
7.000	6.814		9.658		0.479	

EXHIBIT B
Multi-SMP Model Input/Output Files

0.800 MGD Discharge Flow at Ohio BACT Concentrations

```
BVC
*************************************************************************
*                        SIMPLIFIED METHOD PROGRAM                      *
*                          COMPLETE INPUT LISTING                       *
*************************************************************************
```

```
 *-*-*-*-*-*  Run Information *-*-*-*-*-*

Name of receiving stream --------------------------------  Beaver Creek
Number of discharges ------------------------------------  1
Number of reaches ---------------------------------------  1
Reaeration type -----------------------------------------  Tsivoglou
Run title -----------------------------------------------  Beaver Cr. Low Flow

 *-*-*-*-*-* Upstream Parameters *-*-*-*-*-*
                Parameter                      Value      Comment
  Flow                            (cfs)        0.203
  Temperature                       (øC)      16.570
  Dissolved Oxygen                (mg/l)        8.780
  5-Day BOD                       (mg/l)        2.000
  Ult. CBOD / 5-Day BOD                         2.750
  pH                                (su)        8.170
  Ammonia                         (mg/l)        0.115
  Alkalinity                      (mg/l)      133.000

 *-*-*-*-*-* Effluent Parameters *-*-*-*-*-*

 Number of Discharges =          1


For Discharge Number    1 (The Quarries)
                Parameter                      Value      Comment
    Flow                          (MGD)        0.800
  Temperature                       (øC)      20.000
  Dissolved Oxygen                (mg/l)        6.000
  5-Day BOD                       (mg/l)       15.000
  Ult. CBOD / 5-Day BOD                         2.300
  pH                                (su)        8.000
  Ammonia                         (mg/l)        1.500
  Alkalinity                      (mg/l)      100.000
    Beginning of Reach Number                   1.000

 *-*-*-*-*-* Reach Information *-*-*-*-*-*

 Number of Reaches =          1
  Reaeration Type is Tsivoglou

For Reach Number    1
```

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	19.516	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.391
Temperature-corrected NH3 decay rate	(1/day)	0.530
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.845
Calculated reach-averaged width	(ft)	51.948

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	214.093	6.630	52.919	1.670	2.763	0.117
8.150	6.392		30.411		1.305	
8.770	53.021	8.770	43.656	1.330	2.129	0.072
8.100	5.847		29.537		1.254	
8.150	6.392	10.120	30.411	1.670	1.305	0.072
8.050	5.437		28.689		1.206	
8.000	5.136		27.864		1.159	
7.950	4.920		27.064		1.114	
7.900	4.774		26.286		1.071	
7.850	4.682		25.531		1.029	
7.800	4.635		24.797		0.990	
7.750	4.621		24.085		0.951	
7.700	4.635		23.392		0.914	
7.650	4.670		22.720		0.879	
7.600	4.721		22.067		0.845	
7.550	4.785		21.433		0.812	
7.500	4.858		20.817		0.781	
7.450	4.938		20.219		0.751	
7.400	5.024		19.638		0.722	
7.350	5.112		19.074		0.694	
7.300	5.203		18.526		0.667	
7.250	5.295	12.800	17.994	1.000	0.641	0.123
7.250	5.295		17.994		0.641	
7.200	5.387		17.477		0.616	
7.150	5.479		16.974		0.592	
7.100	5.570		16.487		0.569	
7.050	5.660		16.013		0.547	
7.000	5.749	11.830	15.553	1.500	0.526	0.084
7.000	5.749		15.553		0.526	

EXHIBIT B
Multi-SMP Model Input/Output Files

0.800 MGD Discharge Flow at Modified Concentrations

```
*********************************************************************
*                      SIMPLIFIED METHOD PROGRAM                    *
*                        COMPLETE INPUT LISTING                     *
*********************************************************************
```

```
 *-*-*-*-*-*  Run Information *-*-*-*-*-*

Name of receiving stream -------------------------------  Beaver Creek
Number of discharges -----------------------------------  1
Number of reaches --------------------------------------  1
Reaeration type ----------------------------------------  Tsivoglou
Run title ----------------------------------------------  Beaver Cr. Low Flow

 *-*-*-*-*-* Upstream Parameters *-*-*-*-*-*
                Parameter                    Value      Comment
  Flow                          (cfs)        0.203
  Temperature                     (øC)      16.570
  Dissolved Oxygen              (mg/l)        8.780
  5-Day BOD                     (mg/l)        2.000
  Ult. CBOD / 5-Day BOD                       2.750
  pH                              (su)        8.170
  Ammonia                       (mg/l)        0.115
  Alkalinity                    (mg/l)      133.000

 *-*-*-*-*-* Effluent Parameters *-*-*-*-*-*

 Number of Discharges =          1


For Discharge Number    1 (The Quarries)
                Parameter                    Value      Comment
    Flow                         (MGD)        0.800
  Temperature                     (øC)      20.000
  Dissolved Oxygen              (mg/l)        6.000
  5-Day BOD                     (mg/l)       10.000
  Ult. CBOD / 5-Day BOD                       2.300
  pH                              (su)        8.000
  Ammonia                       (mg/l)        1.500
  Alkalinity                    (mg/l)      100.000
    Beginning of Reach Number                 1.000

 *-*-*-*-*-* Reach Information *-*-*-*-*-*

 Number of Reaches =          1
  Reaeration Type is Tsivoglou

For Reach Number    1
```

EXHIBIT B
Multi-SMP Model Input/Output Files

Parameter		Value	Comment
Length	(mile)	1.150	
Velocity	(fps)	0.041	
Slope	(ft/mile)	39.000	
Average Depth	(ft)	0.530	
Temperature	(øC)	19.516	Calculated
BOD Removal Rate	(1/day)	0.400	
NH3 Decay Rate	(1/day)	0.550	
Sediment Oxygen Demand	(g/mý/day)	0.150	
Photosynthesis/respiration	(mg/L/day)	0.000	
Escape Coefficient	(1/foot)	0.110	Default

Temperature-corrected BOD removal rate	(1/day)	0.391
Temperature-corrected NH3 decay rate	(1/day)	0.530
Calculated reaeration rate at 20ø C	(1/day)	2.878
Temperature-corrected reaeration rate	(1/day)	2.845
Calculated reach-averaged width	(ft)	51.948

--*-*-*-* Results for Beaver Creek *-*-*-*-*-*

Discharge is to -- Beaver Creek
Run Title is -- Beaver Cr. Low Flow

River Mile	DO Predicted	DO Observed	BOD Predicted	BOD Observed	NH3 Predicted	NH3 Observed
9.100	128.342	6.630	35.729	1.670	2.763	0.117
8.150	6.392		20.533		1.305	
8.770	33.449	8.770	29.475	1.330	2.129	0.072
8.100	6.103		19.943		1.254	
8.150	6.392	10.120	20.533	1.670	1.305	0.072
8.050	5.893		19.370		1.206	
8.000	5.745		18.813		1.159	
7.950	5.647		18.272		1.114	
7.900	5.590		17.747		1.071	
7.850	5.563		17.237		1.029	
7.800	5.562		16.742		0.990	
7.750	5.580		16.261		0.951	
7.700	5.613		15.794		0.914	
7.650	5.658		15.340		0.879	
7.600	5.711		14.899		0.845	
7.550	5.771		14.471		0.812	
7.500	5.836		14.055		0.781	
7.450	5.905		13.651		0.751	
7.400	5.975		13.259		0.722	
7.350	6.047		12.878		0.694	
7.300	6.119		12.508		0.667	
7.250	6.192	12.800	12.149	1.000	0.641	0.123
7.250	6.192		12.149		0.641	
7.200	6.264		11.800		0.616	
7.150	6.335		11.461		0.592	
7.100	6.405		11.131		0.569	
7.050	6.474		10.811		0.547	
7.000	6.542	11.830	10.501	1.500	0.526	0.084
7.000	6.542		10.501		0.526	

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

December 04, 2008

Joe Papineau
Enviroscience
3781 Darrow Rd.
Stow, OH 44224

TEL: (330) 688-0111
FAX:

RE: Beaver Creek #2677

Order No.: 0809619

Dear Joe Papineau:

Precision Analytical, Inc. received 5 sample(s) on 9/25/2008 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;
NELAC IL - 001922; W.Va DEP - 245; KY UST - 69

Sincerely,

Scott Bolam

Scott Bolam
QA/QC Manager

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0809619
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek #2677
Lab ID: 0809619-001
Client Sample ID Rm 7.00

Collection Date: 9/24/2008 1:11:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: VM
Alkalinity, Total (As CaCO3)	132	10.0		mg/L CaCO3	1	10/2/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD-5	2.00	2.00		mg/L	1	9/26/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD, Ultimate	13.0	2.00		mg/L	1	9/26/2008
AMMONIA				**E350.1**		Analyst: HB
Nitrogen, Ammonia	0.117	0.100		mg/L	1	9/30/2008 2:30:00 PM
NITRATE + NITRITE				**E353.2**		Analyst: HB
Nitrogen, Nitrate-Nitrite	0.622	0.0500		mg/L	1	10/2/2008 3:54:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: HB
Phosphorus, Total	0.0780	0.0200		mg/L	1	10/1/2008 3:00:00 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: HB
Nitrogen, Kjeldahl, Total	0.622	0.200		mg/L	1	9/30/2008 3:30:00 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: WSS
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/1/2008 9:30:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0809619
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek #2677
Lab ID: 0809619-002
Client Sample ID Rm 7.25

Collection Date: 9/24/2008 2:05:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **VM**
Alkalinity, Total (As CaCO3)	130	10.0		mg/L CaCO3	1	10/2/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	9/26/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	12.3	2.00		mg/L	1	9/26/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	9/30/2008 2:30:00 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.735	0.0500		mg/L	1	10/2/2008 3:54:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.0990	0.0200		mg/L	1	10/1/2008 3:00:00 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.651	0.200		mg/L	1	9/30/2008 3:30:00 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **WSS**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/1/2008 9:30:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.
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Cleveland, OH 44128
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Analytical Report
(consolidated)
WO#: 0809619
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek #2677
Lab ID: 0809619-003
Client Sample ID Rm 8.15

Collection Date: 9/24/2008 12:46:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: VM
Alkalinity, Total (As CaCO3)	133	10.0		mg/L CaCO3	1	10/2/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD-5	2.00	2.00		mg/L	1	9/26/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD, Ultimate	6.50	2.00		mg/L	1	9/26/2008
AMMONIA				**E350.1**		Analyst: HB
Nitrogen, Ammonia	0.115	0.100		mg/L	1	9/30/2008 2:30:00 PM
NITRATE + NITRITE				**E353.2**		Analyst: HB
Nitrogen, Nitrate-Nitrite	0.907	0.0500		mg/L	1	10/2/2008 3:54:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: HB
Phosphorus, Total	0.132	0.0200		mg/L	1	10/1/2008 3:00:00 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: HB
Nitrogen, Kjeldahl, Total	0.803	0.200		mg/L	1	9/30/2008 3:30:00 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: WSS
Suspended Solids (Residue, Non-Filterable)	5.00	4.00		mg/L	1	10/1/2008 9:30:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0809619
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek #2677
Lab ID: 0809619-004
Client Sample ID Rm 8.77

Collection Date: 9/24/2008 12:20:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **VM**
Alkalinity, Total (As CaCO3)	136	10.0		mg/L CaCO3	1	10/2/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	9/26/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	16.3	2.00		mg/L	1	9/26/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	9/30/2008 2:30:00 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	1.05	0.100		mg/L	2	10/2/2008 3:54:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.158	0.0200		mg/L	1	10/1/2008 3:00:00 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.783	0.200		mg/L	1	9/30/2008 3:30:00 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **WSS**
Suspended Solids (Residue, Non-Filterable)	4.00	4.00		mg/L	1	10/1/2008 9:30:00 AM

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

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Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0809619
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek #2677
Lab ID: 0809619-005
Client Sample ID Rm 9.10

Collection Date: 9/24/2008 11:10:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: VM
Alkalinity, Total (As CaCO3)	138	10.0		mg/L CaCO3	1	10/2/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD-5	2.00	2.00		mg/L	1	9/26/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: DR
Carbonaceous BOD, Ultimate	17.3	2.00		mg/L	1	9/26/2008
AMMONIA				**E350.1**		Analyst: HB
Nitrogen, Ammonia	0.125	0.100		mg/L	1	9/30/2008 2:30:00 PM
NITRATE + NITRITE				**E353.2**		Analyst: HB
Nitrogen, Nitrate-Nitrite	0.608	0.0500		mg/L	1	10/2/2008 3:54:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: HB
Phosphorus, Total	0.138	0.0200		mg/L	1	10/1/2008 3:00:00 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: HB
Nitrogen, Kjeldahl, Total	0.822	0.200		mg/L	1	9/30/2008 3:30:00 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: WSS
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/1/2008 9:30:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

Precision Analytical, Inc.

Date: 04-Dec-08

CLIENT: Envirescience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT

BatchID: 374

Sample ID: LCS-374 | SampType: LCS | TestCode: In-nh3 | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 942
Client ID: LCSW | Batch ID: 374 | TestNo: E350.1 | Analysis Date: 9/30/2008 | SeqNo: 9466

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.947	0.100	1.000	0	94.7	80	120				

Sample ID: LCSD-374 | SampType: LCSD | TestCode: In-nh3 | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 942
Client ID: LCSS02 | Batch ID: 374 | TestNo: E350.1 | Analysis Date: 9/30/2008 | SeqNo: 9467

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.973	0.100	1.000	0	97.3	80	120	0.9470	2.74	20	

Sample ID: 0809619-005BMS | SampType: MS | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 942
Client ID: Rm 9.10 | Batch ID: 374 | TestNo: E350.1 | Analysis Date: 9/30/2008 | SeqNo: 9490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.976	0.100	1.000	0.1250	85.1	80	120				

Sample ID: 0809619-005BMSD | SampType: MSD | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 942
Client ID: Rm 9.10 | Batch ID: 374 | TestNo: E350.1 | Analysis Date: 9/30/2008 | SeqNo: 9491

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.970	0.100	1.000	0.1250	84.5	80	120	0.9760	0.617	20	

Sample ID: MB-374 | SampType: MBLK | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 942
Client ID: PBW | Batch ID: 374 | TestNo: E350.1 | Analysis Date: 9/30/2008 | SeqNo: 32470

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	0.100									

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT

BatchID: 375

Sample ID: MB-375	SampType: MBLK	TestCode: In-tkn	Units: mg/L	Prep Date: 9/30/2008	RunNo: 943
Client ID: PBW	Batch ID: 375	TestNo: E351.2		Analysis Date: 9/30/2008	SeqNo: 9492

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	0.200									

Sample ID: LCS-375	SampType: LCS	TestCode: In-tkn	Units: mg/L	Prep Date: 9/30/2008	RunNo: 943
Client ID: LCSW	Batch ID: 375	TestNo: E351.2		Analysis Date: 9/30/2008	SeqNo: 9493

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.956	0.200	1.000	0	95.6	80	120				

Sample ID: LCSD-375	SampType: LCSD	TestCode: In-tkn	Units: mg/L	Prep Date: 9/30/2008	RunNo: 943
Client ID: LCSS02	Batch ID: 375	TestNo: E351.2		Analysis Date: 9/30/2008	SeqNo: 9494

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.954	0.200	1.000	0	95.4	80	120	0.9560	0.209	20	

Sample ID: 0809619-001BMS	SampType: MS	TestCode: IN-TKN	Units: mg/L	Prep Date: 9/30/2008	RunNo: 943
Client ID: Rm 7.00	Batch ID: 375	TestNo: E351.2		Analysis Date: 9/30/2008	SeqNo: 9504

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.54	0.200	1.000	0.6220	92.0	80	120				

Sample ID: 0809619-001BMSD	SampType: MSD	TestCode: IN-TKN	Units: mg/L	Prep Date: 9/30/2008	RunNo: 943
Client ID: Rm 7.00	Batch ID: 375	TestNo: E351.2		Analysis Date: 9/30/2008	SeqNo: 9505

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.60	0.200	1.000	0.6220	98.2	80	120	1.542	3.94	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: 391

Sample ID: MB-391 | SampType: MBLK | TestCode: In-phos | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 985
Client ID: PBW | Batch ID: 391 | TestNo: A4500-P-E | Analysis Date: 10/1/2008 | SeqNo: 9924

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	ND	0.0200									

Sample ID: LCS-391 | SampType: LCS | TestCode: In-phos | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 985
Client ID: LCSW | Batch ID: 391 | TestNo: A4500-P-E | Analysis Date: 10/1/2008 | SeqNo: 9925

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.650	0.0200	0.6000	0	108	80	120				

Sample ID: LCSD-391 | SampType: LCSD | TestCode: In-phos | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 985
Client ID: LCSS02 | Batch ID: 391 | TestNo: A4500-P-E | Analysis Date: 10/1/2008 | SeqNo: 9926

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.627	0.0200	0.6000	0	105	80	120	0.6500	3.60	20	

Sample ID: 0809619-005BMS | SampType: MS | TestCode: IN-PHOS | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 985
Client ID: Rm 9.10 | Batch ID: 391 | TestNo: A4500-P-E | Analysis Date: 10/1/2008 | SeqNo: 9944

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.632	0.0200	0.5000	0.1360	98.8	80	120				

Sample ID: 0809619-005BMSD | SampType: MSD | TestCode: IN-PHOS | Units: mg/L | Prep Date: 9/30/2008 | RunNo: 985
Client ID: Rm 9.10 | Batch ID: 391 | TestNo: A4500-P-E | Analysis Date: 10/1/2008 | SeqNo: 9945

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.663	0.0200	0.5000	0.1360	105	80	120	0.6320	4.79	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirescience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: R1030

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: MB-R1030 SampType: MBLK TestCode: IN-TSS Units: mg/L Prep Date: RunNo: 1030											
Client ID: PBW Batch ID: R1030 TestNo: A2540D Analysis Date: 10/1/2008 SeqNo: 10388											
Suspended Solids (Residue, Non-Filterab	ND	4.00									
Sample ID: LCS-R1030 SampType: LCS TestCode: IN-TSS Units: mg/L Prep Date: RunNo: 1030											
Client ID: LCSW Batch ID: R1030 TestNo: A2540D Analysis Date: 10/1/2008 SeqNo: 10389											
Suspended Solids (Residue, Non-Filterab	101	4.00	96.60	0	105	80	120				
Sample ID: 0809582-001CDUP SampType: DUP TestCode: IN-TSS Units: mg/L Prep Date: RunNo: 1030											
Client ID: ZZZZZZ Batch ID: R1030 TestNo: A2540D Analysis Date: 10/1/2008 SeqNo: 10392											
Suspended Solids (Residue, Non-Filterab	1,080	40.0						1,060	1.87	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- J Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirosciences
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: R1041

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: MB-R1041 / SampType: MBLK / TestCode: IN-NO2NO3 / Units: mg/L / Prep Date: / RunNo: 1041 / Client ID: PBW / Batch ID: R1041 / TestNo: E353.2 / Analysis Date: 10/2/2008 / SeqNo: 10452											
Nitrogen, Nitrate-Nitrite	ND	0.0500									
Sample ID: LCS-R1041 / SampType: LCS / TestCode: IN-NO2NO3 / Units: mg/L / Prep Date: / RunNo: 1041 / Client ID: LCSW / Batch ID: R1041 / TestNo: E353.2 / Analysis Date: 10/2/2008 / SeqNo: 10453											
Nitrogen, Nitrate-Nitrite	0.466	0.0500	0.5000	0	93.2	80	120				
Sample ID: 0809619-004BMS / SampType: MS / TestCode: IN-NO2NO3 / Units: mg/L / Prep Date: / RunNo: 1041 / Client ID: Rm 8.77 / Batch ID: R1041 / TestNo: E353.2 / Analysis Date: 10/2/2008 / SeqNo: 10460											
Nitrogen, Nitrate-Nitrite	1.94	0.100	1.000	1.048	89.6	80	120				
Sample ID: 0809619-004BMSD / SampType: MSD / TestCode: IN-NO2NO3 / Units: mg/L / Prep Date: / RunNo: 1041 / Client ID: Rm 8.77 / Batch ID: R1041 / TestNo: E353.2 / Analysis Date: 10/2/2008 / SeqNo: 10461											
Nitrogen, Nitrate-Nitrite	2.00	0.100	1.000	1.048	95.2	80	120	1.944	2.84	20	
Sample ID: LCSD-R1041 / SampType: LCSD / TestCode: IN-NO2NO3 / Units: mg/L / Prep Date: / RunNo: 1041 / Client ID: LCSS02 / Batch ID: R1041 / TestNo: E353.2 / Analysis Date: 10/2/2008 / SeqNo: 10463											
Nitrogen, Nitrate-Nitrite	0.456	0.0500	0.5000	0	91.2	80	120	0.4660	2.17	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: R1045

Sample ID: MB-R1045	SampType: MBLK	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1045		
Client ID: PBW	Batch ID: R1045	TestNo: A5210B		Analysis Date: 9/26/2008				SeqNo: 10489		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	ND	2.00									

Sample ID: LCS-R1045	SampType: LCS	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1045		
Client ID: LCSW	Batch ID: R1045	TestNo: A5210B		Analysis Date: 9/26/2008				SeqNo: 10490		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	209	2.00	198.0	0	106	85	115				

Sample ID: LCSD-R1045	SampType: LCSD	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1045		
Client ID: LCSS02	Batch ID: R1045	TestNo: A5210B		Analysis Date: 9/26/2008				SeqNo: 10498		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	195	2.00	198.0	0	98.5	85	115	209.0	6.93	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: R1058

Sample ID: MB-R1058 | SampType: MBLK | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1058
Client ID: PBW | Batch ID: R1058 | TestNo: A2320 | Analysis Date: 10/2/2008 | SeqNo: 10586

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	10.0									

Sample ID: LCS-R1058 | SampType: LCS | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1058
Client ID: LCSW | Batch ID: R1058 | TestNo: A2320 | Analysis Date: 10/2/2008 | SeqNo: 10587

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	103	10.0	100.0	0	103	80	120				

Sample ID: LCSD-R1058 | SampType: LCSD | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1058
Client ID: LCSS02 | Batch ID: R1058 | TestNo: A2320 | Analysis Date: 10/2/2008 | SeqNo: 10594

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	104	10.0	100.0	0	104	80	120	103.0	0.966	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0809619
Project: Beaver Creek #2677

QC SUMMARY REPORT
BatchID: R2979

Sample ID: MB-R2979 | SampType: MBLK | TestCode: IN-CBODU | Units: mg/L | Prep Date: | RunNo: 2979
Client ID: PBW | Batch ID: R2979 | TestNo: A5210B | Analysis Date: 9/26/2008 | SeqNo: 32381

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	ND	2.00									

Sample ID: LCS-R2979 | SampType: LCS | TestCode: IN-CBODU | Units: mg/L | Prep Date: | RunNo: 2979
Client ID: LCSW | Batch ID: R2979 | TestNo: A5210B | Analysis Date: 9/26/2008 | SeqNo: 32382

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	209	2.00	198.0	0	106	85	115				

Sample ID: LCSD-R2979 | SampType: LCSD | TestCode: IN-CBODU | Units: mg/L | Prep Date: | RunNo: 2979
Client ID: LCSS02 | Batch ID: R2979 | TestNo: A5210B | Analysis Date: 9/26/2008 | SeqNo: 32388

Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	195	2.00	198.0	0	98.5	85	115	209.0	6.93	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

December 04, 2008

Joe Papineau
Enviroscience
3781 Darrow Rd.
Stow, OH 44224
TEL: (330) 688-0111
FAX:

RE: Beaver Creek

Order No.: 0810335

Dear Joe Papineau:

Precision Analytical, Inc. received 5 sample(s) on 10/13/2008 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;
NELAC IL - 001922; W.Va DEP - 245; KY UST - 69

Sincerely,

Scott Bolam

Scott Bolam
QA/QC Manager

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0810335
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810335-001
Client Sample ID Rm 9.10

Collection Date: 10/13/2008 11:35:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	140	10.0		mg/L CaCO3	1	10/20/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/15/2008 3:50:31 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	11.3	2.00		mg/L	1	10/15/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/20/2008 4:14:56 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.418	0.0500		mg/L	1	10/15/2008 5:00:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.133	0.0200		mg/L	1	10/16/2008 1:58:21 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.616	0.200		mg/L	1	10/22/2008 10:48:17 AM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/16/2008 11:05:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)

WO#: 0810335
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810335-002
Client Sample ID Rm 8.77

Collection Date: 10/13/2008 12:00:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	146	10.0		mg/L CaCO3	1	10/20/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/15/2008 3:50:31 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	22.3	2.00		mg/L	1	10/15/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/20/2008 4:14:56 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.619	0.0500		mg/L	1	10/15/2008 5:00:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	ND	0.0200		mg/L	1	10/16/2008 1:58:21 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.733	0.200		mg/L	1	10/22/2008 10:48:17 AM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/16/2008 11:05:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MDL	Method Detection Limit	ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)
WO#: 0810335
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810335-003
Client Sample ID Rm 8.15

Collection Date: 10/13/2008 12:15:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	144	10.0		mg/L CaCO3	1	10/20/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/15/2008 3:50:31 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	7.30	2.00		mg/L	1	10/15/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/20/2008 4:14:56 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.840	0.0500		mg/L	1	10/15/2008 5:00:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.133	0.0200		mg/L	1	10/16/2008 1:58:21 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.571	0.200		mg/L	1	10/22/2008 10:48:17 AM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/16/2008 11:05:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

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Analytical Report
(consolidated)
WO#: 0810335
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810335-004
Client Sample ID Rm 7.25

Collection Date: 10/13/2008 1:01:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	140	10.0		mg/L CaCO3	1	10/20/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/15/2008 3:50:31 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	14.0	2.00		mg/L	1	10/15/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/20/2008 4:14:56 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	ND	0.0500		mg/L	1	10/15/2008 5:00:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.0930	0.0200		mg/L	1	10/16/2008 1:58:21 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.754	0.200		mg/L	1	10/22/2008 10:48:17 AM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/16/2008 11:05:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

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Analytical Report
(consolidated)

WO#: 0810335
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810335-005
Client Sample ID Rm 7.00

Collection Date: 10/13/2008 12:42:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	144	20.0		mg/L CaCO3	1	10/20/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/15/2008 3:50:31 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	16.0	2.00		mg/L	1	10/15/2008
AMMONIA				**E350.1**		Analyst: **HB**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/20/2008 4:14:56 PM
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.549	0.0500		mg/L	1	10/15/2008 5:00:00 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.0800	0.0200		mg/L	1	10/16/2008 1:58:21 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **HB**
Nitrogen, Kjeldahl, Total	0.590	0.200		mg/L	1	10/22/2008 10:48:17 AM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/16/2008 11:05:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MDL	Method Detection Limit	ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

Precision Analytical, Inc.

Date: 05-Dec-08

CLIENT: Enviroscience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: 583

Sample ID: MB-583	SampType: MBLK	TestCode: In-phos	Units: mg/L	Prep Date: 10/15/2008	RunNo: 1551
Client ID: PBW	Batch ID: 583	TestNo: A4500-P-E		Analysis Date: 10/16/2008	SeqNo: 15127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	ND	0.0200									

Sample ID: LCS-583	SampType: LCS	TestCode: In-phos	Units: mg/L	Prep Date: 10/15/2008	RunNo: 1551
Client ID: LCSW	Batch ID: 583	TestNo: A4500-P-E		Analysis Date: 10/16/2008	SeqNo: 15128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.626	0.0200	0.6000	0	104	80	120				

Sample ID: LCSD-583	SampType: LCSD	TestCode: In-phos	Units: mg/L	Prep Date: 10/15/2008	RunNo: 1551
Client ID: LCSS02	Batch ID: 583	TestNo: A4500-P-E		Analysis Date: 10/16/2008	SeqNo: 15129

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.632	0.0200	0.6000	0	105	80	120	0.6260	0.954	20	

Sample ID: 0810181-016AMS	SampType: MS	TestCode: IN-PHOS	Units: mg/L	Prep Date: 10/15/2008	RunNo: 1551
Client ID: ZZZZZZ	Batch ID: 583	TestNo: A4500-P-E		Analysis Date: 10/16/2008	SeqNo: 15131

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	1.41	0.0400	0.5000	0.9420	93.2	80	120				

Sample ID: 0810181-016AMSD	SampType: MSD	TestCode: IN-PHOS	Units: mg/L	Prep Date: 10/15/2008	RunNo: 1551
Client ID: ZZZZZZ	Batch ID: 583	TestNo: A4500-P-E		Analysis Date: 10/16/2008	SeqNo: 15132

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	1.40	0.0400	0.5000	0.9420	92.0	80	120	1.408	0.427	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: 630

Sample ID: LCSD-630 | SampType: LCSD | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 1681
Client ID: LCSS02 | Batch ID: 630 | TestNo: E350.1 | Analysis Date: 10/20/2008 | SeqNo: 16579

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.900	0.100	1.000	0	90.0	80	120				

Sample ID: MB-630 | SampType: MBLK | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 1681
Client ID: PBW | Batch ID: 630 | TestNo: E350.1 | Analysis Date: 10/20/2008 | SeqNo: 32597

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	0.100									

Sample ID: LCS-630 | SampType: LCS | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 1681
Client ID: LCSW | Batch ID: 630 | TestNo: E350.1 | Analysis Date: 10/20/2008 | SeqNo: 32598

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.986	0.100	1.000	0	98.6	80	120				

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirescience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: 657

Sample ID: MB-657	SampType: MBLK	TestCode: In-tkn	Units: mg/L	Prep Date: 10/22/2008	RunNo: 1743
Client ID: PBW	Batch ID: 657	TestNo: E351.2		Analysis Date: 10/22/2008	SeqNo: 17233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	0.200									

Sample ID: LCS-657	SampType: LCS	TestCode: In-tkn	Units: mg/L	Prep Date: 10/22/2008	RunNo: 1743
Client ID: LCSW	Batch ID: 657	TestNo: E351.2		Analysis Date: 10/22/2008	SeqNo: 17234

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.949	0.200	1.000	0	94.9	80	120				

Sample ID: LCSD-657	SampType: LCSD	TestCode: In-tkn	Units: mg/L	Prep Date: 10/22/2008	RunNo: 1743
Client ID: LCSS02	Batch ID: 657	TestNo: E351.2		Analysis Date: 10/22/2008	SeqNo: 17235

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.971	0.200	1.000	0	97.1	80	120	0.9490	2.29	20	

Sample ID: 0810335-005BMS	SampType: MS	TestCode: IN-TKN	Units: mg/L	Prep Date: 10/22/2008	RunNo: 1743
Client ID: Rin 7.00	Batch ID: 657	TestNo: E351.2		Analysis Date: 10/22/2008	SeqNo: 17242

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.09	0.200	0.5000	0.5900	101	80	120				

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirescience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: R1553

Sample ID: MB-R1553	SampType: MBLK	TestCode: IN-NO2NO3	Units: mg/L	Prep Date:					RunNo: 1553		
Client ID: PBW	Batch ID: R1553	TestNo: E353.2		Analysis Date: 10/15/2008					SeqNo: 15191		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	ND	0.0500									

Sample ID: LCS-R1553	SampType: LCS	TestCode: IN-NO2NO3	Units: mg/L	Prep Date:					RunNo: 1553		
Client ID: LCSW	Batch ID: R1553	TestNo: E353.2		Analysis Date: 10/15/2008					SeqNo: 15192		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.487	0.0500	0.5000	0	97.4	80	120				

Sample ID: LCSD-R1553	SampType: LCSD	TestCode: IN-NO2NO3	Units: mg/L	Prep Date:					RunNo: 1553		
Client ID: LCSS02	Batch ID: R1553	TestNo: E353.2		Analysis Date: 10/15/2008					SeqNo: 15198		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.500	0.0500	0.5000	0	100	80	120	0.4870	2.63	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R1638

Sample ID: MB-R1638	SampType: MBLK	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 1638		
Client ID: PBW	Batch ID: R1638	TestNo: A2540D		Analysis Date: 10/16/2008				SeqNo: 16149		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	ND	4.00									

Sample ID: LCS-R1638	SampType: LCS	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 1638		
Client ID: LCSW	Batch ID: R1638	TestNo: A2540D		Analysis Date: 10/16/2008				SeqNo: 16150		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	92.0	4.00	96.60	0	95.2	80	120				

Sample ID: 0810335-005CDUP	SampType: DUP	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 1638		
Client ID: Rm 7.00	Batch ID: R1638	TestNo: A2540D		Analysis Date: 10/16/2008				SeqNo: 16156		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	ND	4.00						0	0	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

QC SUMMARY REPORT

CLIENT: Enviroscience
Work Order: 0810335
Project: Beaver Creek

BatchID: R1676

Sample ID: MB-R1676	SampType: MBLK	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1676		
Client ID: PBW	Batch ID: R1676	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 16497		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	ND	2.00									

Sample ID: LCS-R1676	SampType: LCS	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1676		
Client ID: LCSW	Batch ID: R1676	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 16498		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	194	2.00	198.0	0	98.0	85	115				

Sample ID: LCSD-R1676	SampType: LCSD	TestCode: IN-CBOD	Units: mg/L	Prep Date:				RunNo: 1676		
Client ID: LCSS02	Batch ID: R1676	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 16504		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	195	2.00	198.0	0	98.5	85	115	194.0	0.514	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

QC SUMMARY REPORT

CLIENT: Enviroscience
Work Order: 0810335
Project: Beaver Creek

BatchID: R1686.

Sample ID: MB-R1686 | SampType: MBLK | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1686
Client ID: PBW | Batch ID: R1686 | TestNo: A2320 | Analysis Date: 10/20/2008 | SeqNo: 16647

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	10.0									

Sample ID: LCS-R1686 | SampType: LCS | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1686
Client ID: LCSW | Batch ID: R1686 | TestNo: A2320 | Analysis Date: 10/20/2008 | SeqNo: 16648

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	96.0	10.0	100.0	0	96.0	80	120				

Sample ID: LCSD-R1686 | SampType: LCSD | TestCode: IN-ALK | Units: mg/L CaCO3 | Prep Date: | RunNo: 1686
Client ID: LCSS02 | Batch ID: R1686 | TestNo: A2320 | Analysis Date: 10/20/2008 | SeqNo: 16654

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	97.0	10.0	100.0	0	97.0	80	120	96.00	1.04	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirroscience
Work Order: 0810335
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: R2980

Sample ID: MB-R2980	SampType: MBLK	TestCode: IN-CBODU	Units: mg/L	Prep Date:				RunNo: 2980		
Client ID: PBW	Batch ID: R2980	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 32389		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	ND	2.00									

Sample ID: LCS-R2980	SampType: LCS	TestCode: IN-CBODU	Units: mg/L	Prep Date:				RunNo: 2980		
Client ID: LCSW	Batch ID: R2980	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 32390		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	194	2.00	198.0	0	98.0	85	115				

Sample ID: LCSD-R2980	SampType: LCSD	TestCode: IN-CBODU	Units: mg/L	Prep Date:				RunNo: 2980		
Client ID: LCSS02	Batch ID: R2980	TestNo: A5210B		Analysis Date: 10/15/2008				SeqNo: 32396		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	195	2.00	198.0	0	98.5	85	115	194.0	0.514	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual integration used to determine area response
- R RPD outside accepted recovery limits
- J Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

December 04, 2008

Joe Papineau
Enviroscience
3781 Darrow Rd.
Stow, OH 44224

TEL: (330) 688-0111
FAX:

RE: Beaver Creek

Order No.: 0810697

Dear Joe Papineau:

Precision Analytical, Inc. received 10 sample(s) on 10/24/2008 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;
NELAC IL - 001922; W.Va DEP - 245; KY UST - 69

Sincerely,

Scott Bolam

Scott Bolam
QA/QC Manager

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

PRECISION ANALYTICAL, INC.

4450 Johnston Parkway Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website:
www.precisionanalytical.com

Analytical Report
(consolidated)

WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-001
Client Sample ID RM 9.10

Collection Date: 10/24/2008 1:09:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	125	10.0		mg/L CaCO3	1	10/29/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	5.50	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.177	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.752	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.145	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.800	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- *XX Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

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Website:
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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-002
Client Sample ID RM 9.10 Dup

Collection Date: 10/24/2008 1:09:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	120	10.0		mg/L CaCO3	1	10/29/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	5.00	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.742	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.143	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.667	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
DF	Dilution Factor	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MDL	Method Detection Limit	ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-003
Client Sample ID RM 8.77

Collection Date: 10/24/2008 2:00:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	121	10.0		mg/L CaCO3	1	10/29/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	3.00	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.117	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.858	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.131	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.661	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-004
Client Sample ID RM 8.77 MS/MSD

Collection Date: 10/24/2008 2:00:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	120	20.0		mg/L CaCO3	1	10/29/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	5.00	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.102	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.826	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.135	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.745	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-005
Client Sample ID RM 8.15

Collection Date: 10/24/2008 2:25:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	118	10.0		mg/L CaCO3	1	10/29/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	12.0	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	1.11	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.148	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.623	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-006
Client Sample ID RM 8.15 Dup

Collection Date: 10/24/2008 2:25:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	136	10.0		mg/L CaCO3	1	10/31/2008 12:39:53 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	10.0	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	ND	0.100		mg/L	1	10/29/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	1.13	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.139	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.685	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

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Analytical Report
(consolidated)

WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-007
Client Sample ID: RM 7.00

Collection Date: 10/24/2008 2:45:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	136	10.0		mg/L CaCO3	1	10/31/2008 12:39:53 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	3.00	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.269	0.100		mg/L	1	11/4/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	1.03	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.109	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.490	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-008
Client Sample ID RM 7.00 MS/MSD

Collection Date: 10/24/2008 2:45:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	128	20.0		mg/L CaCO3	1	10/31/2008 12:39:53 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	2.00	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	4.00	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.178	0.100		mg/L	1	11/4/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	0.952	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.115	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.543	0.200		mg/L	1	10/31/2008 4:00:39 PM
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-009
Client Sample ID RM 7.25

Collection Date: 10/24/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	138	10.0		mg/L CaCO3	1	10/31/2008 12:39:53 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	11.0	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	ND	0.100		mg/L	1	11/4/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	1.05	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	0.111	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	0.686	0.200		mg/L	1	11/4/2008
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

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Precision Analytical, Inc. Laboratory Data Reports

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Analytical Report
(consolidated)
WO#: 0810697
Date Reported: 12/4/2008

CLIENT: Enviroscience
Project: Beaver Creek
Lab ID: 0810697-010
Client Sample ID Field Blank

Collection Date: 10/24/2008 1:04:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ALKALINITY, TOTAL				**A2320**		Analyst: **BS**
Alkalinity, Total (As CaCO3)	ND	10.0		mg/L CaCO3	1	10/31/2008 12:39:53 PM
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD-5	ND	2.00		mg/L	1	10/24/2008
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)				**A5210B**		Analyst: **DR**
Carbonaceous BOD, Ultimate	ND	2.00		mg/L	1	10/24/2008
AMMONIA				**E350.1**		Analyst: **BS**
Nitrogen, Ammonia	0.564	0.100		mg/L	1	11/4/2008
NITRATE + NITRITE				**E353.2**		Analyst: **HB**
Nitrogen, Nitrate-Nitrite	ND	0.0500		mg/L	1	10/31/2008 1:35:47 PM
TOTAL PHOSPHOROUS				**A4500-P-E**		Analyst: **HB**
Phosphorus, Total	ND	0.0200		mg/L	1	11/4/2008 3:37:14 PM
TKN (TOTAL KJELDAHL NITROGEN)				**E351.2**		Analyst: **BS**
Nitrogen, Kjeldahl, Total	ND	0.200		mg/L	1	11/4/2008
SOLIDS, TOTAL SUSPENDED				**A2540D**		Analyst: **MES**
Suspended Solids (Residue, Non-Filterable)	ND	4.00		mg/L	1	10/29/2008 10:10:00 AM

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- MDL Method Detection Limit
- RL Reporting Detection Limit (PQL)
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

Date: 05-Dec-08

Precision Analytical, Inc.

QC SUMMARY REPORT

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

BatchID: 765

Sample ID: LCS-765	SampType: LCS	TestCode: IN-NH3	Units: mg/L	Prep Date: 10/29/2008	RunNo: 2002
Client ID: LCSW	Batch ID: 765	TestNo: E350.1		Analysis Date: 10/29/2008	SeqNo: 20230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.846	0.100	1.000	0	84.6	80	120				

Sample ID: LCSD-765	SampType: LCSD	TestCode: IN-NH3	Units: mg/L	Prep Date: 10/29/2008	RunNo: 2002
Client ID: LCSS02	Batch ID: 765	TestNo: E350.1		Analysis Date: 10/29/2008	SeqNo: 20231

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.887	0.100	1.000	0	88.7	80	120	0.8460	4.73	20	

Sample ID: MB-765	SampType: MBLK	TestCode: IN-NH3	Units: mg/L	Prep Date: 10/29/2008	RunNo: 2002
Client ID: PBW	Batch ID: 765	TestNo: E350.1		Analysis Date: 10/29/2008	SeqNo: 32468

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	0.100									

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirescience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: 798

Sample ID: MB-798 | SampType: MBLK | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: PBW | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21327

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	0.200									

Sample ID: LCS-798 | SampType: LCS | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: LCSW | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21328

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.812	0.200	1.000	0	81.2	80	120				

Sample ID: 0810697-004CMS | SampType: MS | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: RM 8.77 MS/MSD | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21333

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.61	0.200	1.000	0.7450	86.5	80	120				

Sample ID: 0810697-004CMSD | SampType: MSD | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: RM 8.77 MS/MSD | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21334

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.54	0.200	1.000	0.7450	79.8	80	120	1.610	4.25	20	S

Sample ID: 0810697-008CMS | SampType: MS | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: RM 7.00 MS/MSD | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21339

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.35	0.200	1.000	0.5430	80.6	80	120				

Sample ID: 0810697-008CMSD | SampType: MSD | TestCode: IN-TKN | Units: mg/L | Prep Date: | RunNo: 2075
Client ID: RM 7.00 MS/MSD | Batch ID: 798 | TestNo: E351.2 | Analysis Date: 10/31/2008 | SeqNo: 21340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

QC SUMMARY REPORT

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

BatchID: 798

Sample ID: 0810697-008CMSD	SampType: MSD	TestCode: IN-TKN	Units: mg/L	Prep Date:		RunNo: 2075
Client ID: RM 7.00 MS/MSD	Batch ID: 798	TestNo: E351.2		Analysis Date: 10/31/2008		SeqNo: 21340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	1.45	0.200	1.000	0.5430	91.0	80	120	1.349	7.42	20	

Sample ID: LCSD-798	SampType: LCSD	TestCode: IN-TKN	Units: mg/L	Prep Date:		RunNo: 2075
Client ID: LCSS02	Batch ID: 798	TestNo: E351.2		Analysis Date: 10/31/2008		SeqNo: 21341

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	0.783	0.200	1.000	0	78.3	80	120	0.8120	3.64	20	S

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirosciencc
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: 833

Sample ID: MB-833	SampType: MBLK	TestCode: In-phos	Units: mg/L	Prep Date: 11/3/2008	RunNo: 2144
Client ID: PBW	Batch ID: 833	TestNo: A4500-P-E		Analysis Date: 11/4/2008	SeqNo: 22177

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	ND	0.0200									

Sample ID: LCS-833	SampType: LCS	TestCode: In-phos	Units: mg/L	Prep Date: 11/3/2008	RunNo: 2144
Client ID: LCSW	Batch ID: 833	TestNo: A4500-P-E		Analysis Date: 11/4/2008	SeqNo: 22178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.602	0.0200	0.6000	0	100	80	120				

Sample ID: LCSD-833	SampType: LCSD	TestCode: In-phos	Units: mg/L	Prep Date: 11/3/2008	RunNo: 2144
Client ID: LCSS02	Batch ID: 833	TestNo: A4500-P-E		Analysis Date: 11/4/2008	SeqNo: 22179

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total	0.596	0.0200	0.6000	0	99.3	80	120	0.6020	1.00	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- F Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirosciences
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: 838

Sample ID: LCS-838 | SampType: LCS | TestCode: IN-NH3 | Units: mg/L | Prep Date: 11/5/2008 | RunNo: 2152
Client ID: LCSW | Batch ID: 838 | TestNo: E350.1 | Analysis Date: 11/4/2008 | SeqNo: 22386

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.995	0.100	1.000	0	99.5	80	120				

Sample ID: 0810697-008CMS | SampType: MS | TestCode: IN-NH3 | Units: mg/L | Prep Date: 11/5/2008 | RunNo: 2152
Client ID: RM 7.00 MS/MSD | Batch ID: 838 | TestNo: E350.1 | Analysis Date: 11/4/2008 | SeqNo: 22389

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	1.21	0.100	1.000	0.1780	103	80	120				

Sample ID: 0810697-008CMSD | SampType: MSD | TestCode: IN-NH3 | Units: mg/L | Prep Date: 11/5/2008 | RunNo: 2152
Client ID: RM 7.00 MS/MSD | Batch ID: 838 | TestNo: E350.1 | Analysis Date: 11/4/2008 | SeqNo: 22390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	0.944	0.100	1.000	0.1780	76.6	80	120	1.211	24.8	20	RS

Sample ID: LCSD-838 | SampType: LCSD | TestCode: IN-NH3 | Units: mg/L | Prep Date: | RunNo: 2152
Client ID: LCSS02 | Batch ID: 838 | TestNo: E350.1 | Analysis Date: 11/4/2008 | SeqNo: 22400

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	1.02	0.100	1.000	0	102	80	120	0.9950	2.58	20	

Sample ID: MB-838 | SampType: MBLK | TestCode: IN-NH3 | Units: mg/L | Prep Date: 11/5/2008 | RunNo: 2152
Client ID: PBW | Batch ID: 838 | TestNo: E350.1 | Analysis Date: 11/4/2008 | SeqNo: 32469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	0.100									

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- J Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirascience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT
BatchID: R2009

Sample ID: MB-R2009	SampType: MBLK	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 2009		
Client ID: PBW	Batch ID: R2009	TestNo: A2540D		Analysis Date: 10/29/2008				SeqNo: 20357		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	ND	4.00									

Sample ID: LCS-R2009	SampType: LCS	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 2009		
Client ID: LCSW	Batch ID: R2009	TestNo: A2540D		Analysis Date: 10/29/2008				SeqNo: 20358		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	94.0	4.00	96.00	0	97.3	80	120				

Sample ID: 0810645-002ADUP	SampType: DUP	TestCode: IN-TSS	Units: mg/L	Prep Date:				RunNo: 2009		
Client ID: ZZZZZZ	Batch ID: R2009	TestNo: A2540D		Analysis Date: 10/29/2008				SeqNo: 20362		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterab	252	8.00						214.0	16.3	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Envirascience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2018

Sample ID: MB-R2018	SampType: MBLK	TestCode: IN-CBOD	Units: mg/L	Prep Date:	RunNo: 2018
Client ID: PBW	Batch ID: R2018	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 20462

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	ND	2.00									

Sample ID: LCS-R2018	SampType: LCS	TestCode: IN-CBOD	Units: mg/L	Prep Date:	RunNo: 2018
Client ID: LCSW	Batch ID: R2018	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 20463

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	187	2.00	198.0	0	94.4	85	115				

Sample ID: LCSD-R2018	SampType: LCSD	TestCode: IN-CBOD	Units: mg/L	Prep Date:	RunNo: 2018
Client ID: LCSS02	Batch ID: R2018	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 20476

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD-5	182	2.00	198.0	0	91.9	85	115	187.0	2.71	20	

Qualifiers:
- *X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2055

Sample ID: MB-R2055	SampType: MBLK	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2055
Client ID: PBW	Batch ID: R2055	TestNo: A2320		Analysis Date: 10/29/2008		SeqNo: 21075

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	10.0									

Sample ID: LCS-R2055	SampType: LCS	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2055
Client ID: LCSW	Batch ID: R2055	TestNo: A2320		Analysis Date: 10/29/2008		SeqNo: 21076

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	100	10.0	100.0	0	100	80	120				

Sample ID: LCSD-R2055	SampType: LCSD	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2055
Client ID: LCSS02	Batch ID: R2055	TestNo: A2320		Analysis Date: 10/29/2008		SeqNo: 21082

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	96.0	10.0	100.0	0	96.0	80	120	100.0	4.08	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2056

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
MB-R2056	MBLK	IN-NO2NO3	mg/L		10/31/2008	2056	21083
Client ID: PBW	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	ND	0.0500									

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
LCS-R2056	LCS	IN-NO2NO3	mg/L		10/31/2008	2056	21084
Client ID: LCSW	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.510	0.0500	0.5000	0	102	80	120				

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
0810697-004CMS	MS	IN-NO2NO3	mg/L		10/31/2008	2056	21090
Client ID: RM 8.77 MS/MSD	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	1.40	0.0500	0.5000	0.8258	115	80	120				

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
0810697-004CMSD	MSD	IN-NO2NO3	mg/L		10/31/2008	2056	21091
Client ID: RM 8.77 MS/MSD	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	1.37	0.0500	0.5000	0.8258	109	80	120	1.398	1.93	20	

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
0810697-008CMS	MS	IN-NO2NO3	mg/L		10/31/2008	2056	21096
Client ID: RM 7.00 MS/MSD	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	1.50	0.0500	0.5000	0.9522	109	80	120				

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	RunNo	SeqNo
0810697-008CMSD	MSD	IN-NO2NO3	mg/L		10/31/2008	2056	21097
Client ID: RM 7.00 MS/MSD	Batch ID: R2056	TestNo: E353.2					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- J Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2056

Sample ID: 0810697-008CMSD	SampType: MSD	TestCode: IN-NO2NO3	Units: mg/L	Prep Date:				RunNo: 2056		
Client ID: RM 7.00 MS/MSD	Batch ID: R2056	TestNo: E353.2		Analysis Date: 10/31/2008				SeqNo: 21097		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	1.52	0.0500	0.5000	0.9522	114	80	120	1.498	1.42	20	

Sample ID: LCSD-R2056	SampType: LCSD	TestCode: IN-NO2NO3	Units: mg/L	Prep Date:				RunNo: 2056		
Client ID: LCSS02	Batch ID: R2056	TestNo: E353.2		Analysis Date: 10/31/2008				SeqNo: 21100		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.492	0.0500	0.5000	0	98.3	80	120	0.5103	3.73	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2058

Sample ID: MB-R2058	SampType: MBLK	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2058
Client ID: PBW	Batch ID: R2058	TestNo: A2320		Analysis Date: 10/31/2008		SeqNo: 21126

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	10.0									

Sample ID: LCS-R2058	SampType: LCS	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2058
Client ID: LCSW	Batch ID: R2058	TestNo: A2320		Analysis Date: 10/31/2008		SeqNo: 21127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	97.0	10.0	100.0	0	97.0	80	120				

Sample ID: LCSD-R2058	SampType: LCSD	TestCode: IN-ALK	Units: mg/L CaCO3	Prep Date:		RunNo: 2058
Client ID: LCSS02	Batch ID: R2058	TestNo: A2320		Analysis Date: 10/31/2008		SeqNo: 21133

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.0	10.0	100.0	0	98.0	80	120	97.00	1.03	20	

Qualifiers:
- %X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analysis
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXHIBIT C
Precision Analytical, Inc. Laboratory Data Reports

CLIENT: Enviroscience
Work Order: 0810697
Project: Beaver Creek

QC SUMMARY REPORT

BatchID: R2982

Sample ID: MB-R2982	SampType: MBLK	TestCode: IN-CBODU	Units: mg/L	Prep Date:	RunNo: 2982
Client ID: PBW	Batch ID: R2982	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 32399

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	ND	2.00									

Sample ID: LCS-R2982	SampType: LCS	TestCode: IN-CBODU	Units: mg/L	Prep Date:	RunNo: 2982
Client ID: LCSW	Batch ID: R2982	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 32400

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	187	2.00	198.0	0	94.4	85	115				

Sample ID: LCSD-R2982	SampType: LCSD	TestCode: IN-CBODU	Units: mg/L	Prep Date:	RunNo: 2982
Client ID: LCSS02	Batch ID: R2982	TestNo: A5210B		Analysis Date: 10/24/2008	SeqNo: 32411

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbonaceous BOD, Ultimate	182	2.00	198.0	0	91.9	85	115	187.0	2.71	20	

Qualifiers:
- */X Value exceeds Maximum Contaminant Level
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit (PQL)
- H Holding times for preparation or analys
- P Second column confirmation exceeds
- S Spike outside acceptance limits

EXH. D

Beaver Creek Physical Measurement Survey Data

DIMENSIONS

NAME	POOL WIDTH FT	POOL DEPTH IN (AVG)	POOL DEPTH IN (MAX)	RIFFLE WIDTH FT	RIFFLE DEPTH IN (AVG)	DATE MEASURED	APPROX. TIME 24HR	COMMENT
1a Pool	23.5	12.0	18.0			11/6/2008	10:00	
1a Riffle				30.0	4.0	11/6/2008	10:00	
1b Pool	20.5	8.0	14.0			11/6/2008	10:30	
1b Riffle				21.5	3.0	11/6/2008	10:30	
2b Pool	19.5	17.0	24.0			11/6/2008	11:00	
2b Riffle				22.0	1.5	11/6/2008	11:00	
3a Pool	20.5	9.0	14.0			11/6/2008	11:30	
3a Riffle				38.0	1.0	11/6/2008	11:30	
3b Pool	31.0	8.0	16.0			11/6/2008	12:00	
3b Riffle				22.0	3.0	11/6/2008	12:00	
5a Pool	25.0	32.0	43.0			11/6/2008	13:00	
5a Riffle				36.0	3.0	11/6/2008	13:00	
5b Pool	24.5	17.0	24.5			11/19/2008	10:30	depth adjusted down 6"
5b Rifffle				22.5	4.0	11/19/2008	10:30	depth adjusted down 6"
6a Pool	22.0	16.0	26.0			11/19/2008	11:30	depth adjusted down 6"
6a Riffle				25.5	2.0	11/19/2008	11:30	depth adjusted down 6"
7b Pool	21.0	10.0	13.0			11/7/2008	11:30	
7b Riffle				17.5	3.5	11/7/2008	11:30	
8b Pool	22.5	1.0	16.0			11/7/2008	11:00	riffle downstream of pool
8b Riffle				14.5	4.0	11/7/2008	11:00	riffle downstream of pool
9a Pool	37.0	22.0	25.0			11/7/2008	10:30	
9a Riffle				35.5	2.0	11/7/2008	10:30	split riffle 28.5 + 7
10b Pool	32.0	10.0	16.0			11/7/2008	10:00	
10b Riffle				30.5	2.0	11/7/2008	10:00	

VELOCITIES

NAME	VELOCITY (1/4)	VELOCITY (1/2)	VELOCITY (3/4)	VELOCITY (AVG)	DATE MEASURED	APPROX. TIME 24HR
1a Pool	0.21	1.20	0.83	0.75	11/19/2008	12:30
5b Pool	0.28	0.40	0.49	0.39	11/19/2008	12:00
10b Pool	-0.02	1.04	0.33	0.45	11/19/2008	13:00

EXH D
Beaver Creek Physical Measurement Survey Data

ELEVATIONS

NAME	ELEVATION FT (MSL)	DIFFERENCE FT	STREAM LENGTH FT	SEGMENT SLOPE FT/MI
1 Start	715.34	8.04	839	50.6
1 Finish	707.30			
2 Start	706.90	6.64	542	64.7
2 Finish	700.26			
3 Start	702.52	6.61	826	42.3
3 Finish	695.91			
4 Start	695.38	5.68	703	42.7
4 Finish	689.70			
5 Start	689.41	4.47	759	31.1
5 Finish	684.94			
6 Start	685.22	7.91	872	47.9
6 Finish	677.31			
7 Start	678.17	4.24	680	32.9
7 Finish*	673.93			
8 Start*	673.93	2.86	738	20.5
8 Finish	671.07			
9 Start	671.49	5.42	759	37.7
9 Finish	666.07			
10 Start	666.56	3.69	860	22.7
10 Finish	662.87			

*Elevation at entrance to turnpike tunnel

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/22/2008	0:00:40	8.99	0.6	10.97	8.11	8.99	0.523	11.45	8.25	9	0.567	9.9	7.9	9.44	0.545	9.54	8.82	9.57	0.556	10.48	7.59
10/22/2008	0:15:40	8.98	0.6	10.88	8.1	8.95	0.524	11.36	8.25	8.97	0.568	9.88	7.89	9.42	0.545	9.53	8.86	9.54	0.557	10.49	7.59
10/22/2008	0:30:40	8.96	0.6	10.91	8.1	8.9	0.524	11.41	8.23	8.95	0.568	9.93	7.89	9.39	0.545	9.59	8.88	9.52	0.557	10.43	7.58
10/22/2008	0:45:40	8.91	0.6	10.89	8.1	8.86	0.525	11.44	8.22	8.93	0.568	9.89	7.89	9.37	0.545	9.58	8.88	9.51	0.558	10.71	7.58
10/22/2008	1:00:40	8.88	0.6	10.9	8.1	8.8	0.525	11.45	8.21	8.9	0.568	9.86	7.89	9.35	0.545	9.58	8.87	9.49	0.558	10.53	7.59
10/22/2008	1:15:40	8.86	0.6	10.86	8.09	8.75	0.526	11.48	8.2	8.87	0.569	9.93	7.89	9.34	0.545	9.62	8.87	9.46	0.558	10.43	7.59
10/22/2008	1:30:40	8.83	0.6	10.87	8.09	8.71	0.526	11.45	8.19	8.85	0.569	9.92	7.89	9.32	0.545	9.65	8.88	9.43	0.559	10.49	7.59
10/22/2008	1:45:40	8.83	0.599	10.85	8.09	8.66	0.526	11.52	8.19	8.82	0.569	9.96	7.89	9.3	0.545	9.63	8.89	9.45	0.559	10.37	7.59
10/22/2008	2:00:40	8.81	0.599	10.89	8.09	8.62	0.527	11.47	8.18	8.8	0.57	9.9	7.88	9.28	0.545	9.66	8.87	9.41	0.559	10.51	7.59
10/22/2008	2:15:40	8.78	0.598	10.88	8.08	8.58	0.527	11.51	8.17	8.78	0.57	9.94	7.88	9.27	0.546	9.65	8.88	9.38	0.559	10.37	7.59
10/22/2008	2:30:40	8.76	0.598	10.87	8.08	8.54	0.528	11.48	8.17	8.76	0.57	9.9	7.88	9.26	0.546	9.63	8.87	9.35	0.56	10.35	7.59
10/22/2008	2:45:40	8.74	0.598	10.84	8.08	8.51	0.528	11.47	8.16	8.74	0.57	9.9	7.88	9.25	0.546	9.63	8.87	9.37	0.56	10.59	7.59
10/22/2008	3:00:40	8.71	0.598	10.86	8.08	8.46	0.529	11.48	8.16	8.72	0.571	9.9	7.88	9.22	0.546	9.68	8.86	9.35	0.56	10.31	7.59
10/22/2008	3:15:40	8.67	0.597	10.86	8.08	8.42	0.529	11.55	8.15	8.7	0.571	9.87	7.88	9.21	0.546	9.65	8.86	9.31	0.56	10.27	7.59
10/22/2008	3:30:40	8.67	0.597	10.85	8.07	8.39	0.53	11.51	8.15	8.68	0.571	9.92	7.88	9.2	0.546	9.64	8.86	9.28	0.56	10.19	7.58
10/22/2008	3:45:40	8.65	0.597	10.85	8.07	8.37	0.53	11.56	8.14	8.67	0.571	9.89	7.88	9.18	0.546	9.66	8.85	9.24	0.561	10.18	7.59
10/22/2008	4:00:40	8.62	0.597	10.87	8.07	8.34	0.531	11.58	8.14	8.65	0.571	9.88	7.87	9.17	0.546	9.68	8.85	9.21	0.562	10.13	7.59
10/22/2008	4:15:40	8.58	0.596	10.88	8.07	8.32	0.531	11.54	8.14	8.64	0.571	9.91	7.87	9.16	0.547	9.7	8.84	9.2	0.561	10.13	7.59
10/22/2008	4:30:40	8.55	0.596	10.88	8.06	8.27	0.532	11.59	8.14	8.61	0.572	9.93	7.87	9.12	0.547	9.65	8.85	9.19	0.562	10.2	7.58
10/22/2008	4:45:40	8.53	0.596	10.86	8.06	8.22	0.532	11.75	8.13	8.57	0.572	9.9	7.87	9.1	0.547	9.68	8.84	9.17	0.562	10.06	7.59
10/22/2008	5:00:40	8.52	0.596	10.89	8.06	8.2	0.533	11.54	8.13	8.55	0.572	9.93	7.87	9.1	0.547	9.64	8.84	9.12	0.563	10.06	7.58
10/22/2008	5:15:40	8.49	0.595	10.9	8.06	8.18	0.533	11.54	8.13	8.54	0.572	9.9	7.87	9.07	0.547	9.67	8.84	9.12	0.563	10.16	7.58
10/22/2008	5:30:40	8.45	0.595	10.91	8.06	8.16	0.533	11.55	8.13	8.52	0.572	9.94	7.87	9.06	0.547	9.7	8.83	9.06	0.564	10.27	7.58
10/22/2008	5:45:40	8.42	0.595	10.84	8.06	8.14	0.534	11.62	8.13	8.52	0.572	9.93	7.86	9.05	0.547	9.66	8.85	9.05	0.564	9.84	7.57
10/22/2008	6:00:40	8.44	0.595	10.86	8.05	8.12	0.534	11.58	8.13	8.51	0.573	9.95	7.87	9.05	0.548	9.68	8.84	9.02	0.565	9.94	7.58
10/22/2008	6:15:40	8.4	0.595	10.86	8.05	8.12	0.535	11.64	8.12	8.5	0.573	9.97	7.87	9.04	0.548	9.64	8.84	9.02	0.564	10.09	7.58
10/22/2008	6:30:40	8.37	0.595	10.97	8.05	8.09	0.535	11.66	8.12	8.49	0.573	9.9	7.87	9.02	0.548	9.69	8.83	8.99	0.565	10.11	7.58
10/22/2008	6:45:40	8.35	0.595	10.95	8.05	8.07	0.536	11.66	8.12	8.48	0.573	9.94	7.86	9	0.548	9.65	8.86	9	0.565	10.02	7.58
10/22/2008	7:00:40	8.33	0.595	10.98	8.05	8.06	0.536	11.6	8.12	8.47	0.573	9.95	7.86	8.99	0.548	9.68	8.85	9	0.565	9.64	7.57
10/22/2008	7:15:40	8.3	0.595	10.96	8.05	8.04	0.536	11.66	8.12	8.45	0.573	9.96	7.86	8.98	0.549	9.7	8.84	8.94	0.566	9.94	7.57
10/22/2008	7:30:40	8.27	0.595	10.95	8.05	8.02	0.537	11.68	8.12	8.43	0.574	9.99	7.86	8.96	0.549	9.69	8.83	8.91	0.566	9.6	7.57
10/22/2008	7:45:40	8.25	0.595	10.96	8.04	8	0.537	11.68	8.12	8.42	0.574	9.98	7.86	8.95	0.549	9.65	8.84	8.92	0.566	9.79	7.57
10/22/2008	8:00:40	8.23	0.595	11.01	8.05	7.99	0.538	11.68	8.12	8.4	0.574	9.99	7.86	8.94	0.549	9.69	8.83	8.86	0.567	9.57	7.57
10/22/2008	8:15:40	8.2	0.595	11.04	8.04	7.97	0.538	11.64	8.12	8.39	0.574	9.95	7.86	8.93	0.549	9.66	8.84	8.84	0.567	9.77	7.57
10/22/2008	8:30:40	8.18	0.596	11.07	8.05	7.96	0.538	11.73	8.12	8.38	0.574	10	7.86	8.91	0.549	9.71	8.83	8.83	0.568	9.44	7.57
10/22/2008	8:45:40	8.17	0.596	11.18	8.05	7.95	0.539	11.72	8.13	8.38	0.575	10.05	7.87	8.91	0.55	9.68	8.84	8.85	0.568	9.54	7.57
10/22/2008	9:00:40	8.15	0.597	11.16	8.05	7.94	0.539	11.84	8.13	8.38	0.575	10.11	7.87	8.91	0.55	9.68	8.87	8.8	0.568	9.39	7.57
10/22/2008	9:15:40	8.15	0.597	11.3	8.06	7.95	0.539	11.84	8.14	8.38	0.575	10.16	7.87	8.91	0.55	9.74	8.85	8.79	0.569	9.37	7.57
10/22/2008	9:30:40	8.15	0.597	11.36	8.06	7.97	0.539	11.9	8.14	8.39	0.575	10.22	7.88	8.91	0.55	9.74	8.86	8.78	0.569	9.35	7.56
10/22/2008	9:45:40	8.17	0.597	11.41	8.07	7.99	0.54	12.02	8.16	8.4	0.575	10.28	7.88	8.91	0.55	9.79	8.84	8.76	0.57	9.51	7.56
10/22/2008	10:00:40	8.14	0.597	11.5	8.08	8	0.54	12.1	8.17	8.41	0.575	10.29	7.89	8.9	0.55	9.83	8.84	8.78	0.57	9.32	7.56
10/22/2008	10:15:40	8.14	0.597	11.6	8.09	8.03	0.54	12.27	8.18	8.41	0.576	10.31	7.9	8.9	0.55	9.79	8.84	8.74	0.571	9.21	7.57
10/22/2008	10:30:40	8.15	0.598	11.68	8.1	8.22	0.54	12.59	8.2	8.43	0.576	10.43	7.9	8.91	0.551	9.84	8.83	8.76	0.57	9.53	7.57
10/22/2008	10:45:40	8.18	0.598	11.7	8.11	8.37	0.54	12.51	8.21	8.44	0.576	10.43	7.9	8.95	0.551	9.87	8.84	8.74	0.571	9.28	7.57
10/22/2008	11:00:40	8.14	0.598	11.88	8.11	8.5	0.54	12.62	8.23	8.48	0.576	10.47	7.9	9	0.551	9.92	8.83	8.73	0.571	9.51	7.57
10/22/2008	11:15:40	8.16	0.599	11.84	8.12	8.58	0.54	12.71	8.25	8.52	0.576	10.58	7.91	9.05	0.551	9.94	8.84	8.76	0.572	9.28	7.56
10/22/2008	11:30:40	8.18	0.598	11.88	8.12	8.7	0.54	12.88	8.26	8.5	0.577	10.61	7.91	9.13	0.551	10.03	8.83	8.73	0.572	9.13	7.56
10/22/2008	11:45:40	8.27	0.598	11.88	8.13	8.84	0.54	12.99	8.28	8.54	0.577	10.58	7.92	9.19	0.551	10.1	8.83	8.76	0.572	9.49	7.56
10/22/2008	12:00:40	8.29	0.599	11.96	8.14	8.88	0.54	13	8.29	8.57	0.577	10.63	7.93	9.25	0.551	10.13	8.83	8.77	0.572	9.25	7.56
10/22/2008	12:15:40	8.34	0.599	12.03	8.15	8.93	0.54	13.08	8.3	8.61	0.577	10.65	7.93	9.31	0.552	10.15	8.84	8.8	0.573	9.38	7.57
10/22/2008	12:30:40	8.4	0.599	12.15	8.15	9.01	0.541	13.16	8.32	8.66	0.577	10.72	7.93	9.38	0.552	10.16	8.84	8.84	0.573	9.5	7.56
10/22/2008	12:45:40	8.5	0.599	12.21	8.16	9.13	0.541	13.15	8.33	8.72	0.577	10.69	7.94	9.44	0.552	10.18	8.84	8.86	0.573	9.28	7.57

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/22/2008	13:00:40	8.64	0.599	12.23	8.17	9.32	0.541	13.31	8.34	8.78	0.578	10.8	7.94	9.54	0.552	10.25	8.84	8.88	0.573	9.24	7.57
10/22/2008	13:15:40	8.71	0.6	12.31	8.18	9.47	0.541	13.34	8.35	8.79	0.578	10.77	7.94	9.76	0.552	10.25	8.83	8.9	0.573	9.58	7.57
10/22/2008	13:30:40	9.03	0.599	12.38	8.2	9.55	0.541	13.49	8.36	8.86	0.578	10.88	7.95	9.91	0.552	10.29	8.83	8.91	0.573	9.46	7.57
10/22/2008	13:45:40	9.01	0.6	12.42	8.21	9.55	0.541	13.51	8.37	8.92	0.578	10.83	7.95	10.05	0.552	10.33	8.85	8.99	0.574	9.31	7.57
10/22/2008	14:00:40	8.98	0.601	12.47	8.21	9.48	0.541	13.41	8.38	8.96	0.578	10.83	7.95	10.2	0.552	10.35	8.83	9.08	0.574	9.6	7.57
10/22/2008	14:15:40	9.01	0.601	12.48	8.23	9.38	0.541	13.33	8.39	8.94	0.578	10.82	7.95	10.29	0.553	10.37	8.84	9.1	0.574	9.51	7.57
10/22/2008	14:30:40	9.13	0.601	12.54	8.24	9.37	0.541	13.3	8.4	9	0.578	10.86	7.96	10.34	0.553	10.39	8.84	9.14	0.574	9.52	7.57
10/22/2008	14:45:40	9.18	0.601	12.58	8.24	9.41	0.541	13.29	8.41	8.98	0.578	10.93	7.96	10.29	0.553	10.4	8.85	9.18	0.574	9.42	7.57
10/22/2008	15:00:40	9.21	0.601	12.56	8.25	9.43	0.542	13.25	8.42	8.98	0.579	11	7.96	10.25	0.553	10.41	8.84	9.21	0.574	9.34	7.57
10/22/2008	15:15:40	9.22	0.602	12.61	8.26	9.53	0.541	13.26	8.43	8.93	0.579	10.93	7.96	10.24	0.554	10.41	8.82	9.27	0.574	9.72	7.57
10/22/2008	15:30:40	9.21	0.602	12.66	8.26	9.59	0.541	13.28	8.45	8.98	0.579	10.98	7.97	10.12	0.554	10.31	8.83	9.31	0.575	9.67	7.58
10/22/2008	15:45:40	9.23	0.602	12.69	8.27	9.64	0.541	13.27	8.46	8.97	0.579	11	7.97	9.98	0.555	10.31	8.84	9.33	0.575	9.97	7.59
10/22/2008	16:00:40	9.22	0.603	12.71	8.28	9.67	0.541	13.29	8.47	8.99	0.579	11.01	7.97	9.9	0.555	10.25	8.84	9.32	0.575	9.82	7.59
10/22/2008	16:15:40	9.18	0.604	12.65	8.28	9.69	0.541	13.27	8.47	8.98	0.579	10.98	7.97	9.81	0.556	10.26	8.83	9.33	0.575	10.16	7.6
10/22/2008	16:30:40	9.15	0.604	12.6	8.28	9.69	0.541	13.23	8.48	8.98	0.579	10.98	7.97	9.78	0.556	10.21	8.83	9.33	0.575	10.08	7.6
10/22/2008	16:45:40	9.1	0.605	12.57	8.28	9.76	0.541	13.15	8.49	9.01	0.58	10.92	7.98	9.71	0.557	10.17	8.83	9.34	0.576	10.05	7.6
10/22/2008	17:00:40	9.08	0.605	12.54	8.28	9.82	0.541	13.06	8.49	9	0.58	10.89	7.98	9.66	0.558	10.14	8.85	9.3	0.576	10	7.61
10/22/2008	17:15:40	9.02	0.606	12.49	8.28	9.88	0.541	13.05	8.5	9.02	0.581	10.89	7.98	9.63	0.558	10.11	8.85	9.29	0.576	9.88	7.61
10/22/2008	17:30:40	9	0.606	12.48	8.27	9.93	0.541	13.03	8.51	9.02	0.581	10.87	7.97	9.58	0.558	10.11	8.83	9.28	0.576	9.84	7.61
10/22/2008	17:45:40	8.97	0.606	12.4	8.26	9.95	0.541	12.87	8.52	9.03	0.581	10.82	7.97	9.54	0.559	10.05	8.83	9.23	0.576	9.88	7.62
10/22/2008	18:00:40	8.91	0.607	12.3	8.26	9.94	0.541	12.81	8.52	9.02	0.582	10.77	7.97	9.52	0.559	10.01	8.83	9.24	0.576	10.04	7.61
10/22/2008	18:15:40	8.88	0.607	12.2	8.25	9.89	0.542	12.69	8.52	9.02	0.582	10.75	7.97	9.47	0.56	10.02	8.82	9.22	0.576	9.99	7.62
10/22/2008	18:30:40	8.85	0.607	12.15	8.25	9.82	0.542	12.63	8.51	9.01	0.582	10.65	7.97	9.43	0.56	9.95	8.82	9.2	0.576	9.91	7.62
10/22/2008	18:45:40	8.8	0.607	12.08	8.24	9.74	0.542	12.52	8.5	9	0.582	10.62	7.96	9.4	0.56	9.91	8.82	9.2	0.576	10.06	7.62
10/22/2008	19:00:40	8.78	0.608	11.95	8.23	9.64	0.542	12.37	8.5	8.99	0.582	10.53	7.96	9.34	0.561	9.88	8.82	9.2	0.576	9.94	7.63
10/22/2008	19:15:40	8.73	0.608	11.89	8.22	9.54	0.543	12.25	8.49	8.96	0.582	10.58	7.96	9.3	0.561	9.84	8.82	9.19	0.576	9.92	7.63
10/22/2008	19:30:40	8.72	0.608	11.84	8.22	9.44	0.543	12.14	8.48	8.92	0.582	10.58	7.96	9.25	0.562	9.81	8.82	9.16	0.577	10.11	7.62
10/22/2008	19:45:40	8.67	0.608	11.79	8.21	9.34	0.543	12.05	8.47	8.9	0.582	10.52	7.96	9.2	0.562	9.83	8.81	9.12	0.577	9.7	7.62
10/22/2008	20:00:40	8.65	0.609	11.73	8.2	9.24	0.543	12.1	8.46	8.88	0.582	10.55	7.95	9.15	0.563	9.81	8.81	9.15	0.576	9.75	7.61
10/22/2008	20:15:40	8.63	0.609	11.65	8.2	9.15	0.544	11.97	8.45	8.84	0.582	10.46	7.96	9.11	0.563	9.79	8.81	9.12	0.577	9.73	7.62
10/22/2008	20:30:40	8.58	0.609	11.61	8.19	9.06	0.544	11.84	8.45	8.81	0.582	10.5	7.95	9.07	0.564	9.78	8.81	9.12	0.576	9.96	7.62
10/22/2008	20:45:40	8.52	0.609	11.59	8.19	8.99	0.544	11.85	8.44	8.74	0.582	10.45	7.95	9.01	0.564	9.74	8.82	9.12	0.577	9.76	7.62
10/22/2008	21:00:40	8.48	0.61	11.55	8.18	8.91	0.544	11.81	8.43	8.73	0.582	10.5	7.95	8.97	0.565	9.71	8.82	9.11	0.577	10.05	7.63
10/22/2008	21:15:40	8.45	0.61	11.5	8.18	8.82	0.545	11.76	8.42	8.64	0.582	10.49	7.95	8.93	0.565	9.72	8.81	9.08	0.578	10.09	7.63
10/22/2008	21:30:40	8.4	0.61	11.49	8.17	8.74	0.545	11.73	8.42	8.58	0.583	10.48	7.95	8.89	0.565	9.72	8.81	9.07	0.577	10.26	7.63
10/22/2008	21:45:40	8.36	0.61	11.43	8.17	8.68	0.545	11.69	8.41	8.54	0.583	10.41	7.94	8.85	0.566	9.72	8.83	9.07	0.577	9.96	7.64
10/22/2008	22:00:40	8.32	0.61	11.42	8.16	8.61	0.546	11.7	8.4	8.5	0.583	10.42	7.95	8.83	0.566	9.71	8.82	9.05	0.578	10.09	7.64
10/22/2008	22:15:40	8.26	0.611	11.39	8.16	8.52	0.546	11.58	8.4	8.46	0.584	10.44	7.94	8.78	0.566	9.72	8.81	9.05	0.578	9.95	7.64
10/22/2008	22:30:40	8.22	0.611	11.36	8.16	8.45	0.546	11.61	8.39	8.39	0.584	10.38	7.94	8.75	0.566	9.65	8.84	9.01	0.578	9.89	7.65
10/22/2008	22:45:40	8.17	0.611	11.35	8.15	8.38	0.547	11.56	8.39	8.33	0.585	10.4	7.94	8.72	0.566	9.6	8.83	9.01	0.578	10.01	7.65
10/22/2008	23:00:40	8.12	0.611	11.34	8.15	8.29	0.547	11.51	8.38	8.28	0.585	10.41	7.94	8.65	0.567	9.63	8.82	8.97	0.579	10.11	7.65
10/22/2008	23:15:40	8.07	0.611	11.3	8.15	8.21	0.547	11.57	8.37	8.22	0.586	10.43	7.94	8.65	0.567	9.59	8.82	8.97	0.578	9.77	7.65
10/22/2008	23:30:40	8.01	0.611	11.36	8.14	8.13	0.548	11.57	8.37	8.17	0.587	10.4	7.93	8.58	0.567	9.62	8.82	8.94	0.578	9.83	7.65
10/22/2008	23:45:40	7.97	0.611	11.3	8.14	8.05	0.548	11.56	8.36	8.14	0.587	10.35	7.93	8.53	0.567	9.65	8.82	8.93	0.579	9.75	7.64
10/23/2008	0:00:40	7.9	0.611	11.35	8.14	7.99	0.548	11.49	8.35	8.06	0.588	10.31	7.93	8.48	0.567	9.67	8.81	8.87	0.579	9.82	7.65
10/23/2008	0:15:40	7.85	0.611	11.31	8.14	7.91	0.549	11.55	8.35	8	0.588	10.31	7.93	8.45	0.567	9.67	8.81	8.86	0.579	9.7	7.64
10/23/2008	0:30:40	7.81	0.611	11.26	8.13	7.84	0.549	11.56	8.34	7.94	0.589	10.35	7.92	8.4	0.567	9.65	8.82	8.82	0.579	9.54	7.64
10/23/2008	0:45:40	7.79	0.611	11.24	8.13	7.76	0.549	11.5	8.33	7.9	0.59	10.35	7.92	8.35	0.568	9.7	8.82	8.77	0.579	9.49	7.64
10/23/2008	1:00:40	7.68	0.611	11.21	8.13	7.68	0.55	11.55	8.32	7.86	0.59	10.36	7.92	8.32	0.568	9.69	8.82	8.79	0.579	9.33	7.63
10/23/2008	1:15:40	7.66	0.611	11.21	8.12	7.61	0.55	11.5	8.31	7.81	0.59	10.33	7.91	8.27	0.568	9.7	8.82	8.75	0.58	9.24	7.63
10/23/2008	1:30:40	7.6	0.611	11.26	8.12	7.53	0.551	11.51	8.3	7.74	0.591	10.28	7.92	8.25	0.568	9.69	8.82	8.72	0.58	9.36	7.62
10/23/2008	1:45:40	7.58	0.611	11.25	8.12	7.44	0.551	11.51	8.29	7.68	0.591	10.25	7.91	8.19	0.568	9.74	8.81	8.66	0.58	9.42	7.62

EXı E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/23/2008	2:00:40	7.52	0.611	11.28	8.12	7.37	0.552	11.58	8.28	7.61	0.591	10.25	7.92	8.14	0.568	9.72	8.82	8.63	0.58	9.2	7.62
10/23/2008	2:15:40	7.47	0.611	11.33	8.12	7.29	0.552	11.53	8.28	7.55	0.592	10.31	7.91	8.11	0.569	9.73	8.81	8.6	0.58	9.44	7.62
10/23/2008	2:30:40	7.44	0.611	11.31	8.12	7.2	0.553	11.61	8.27	7.5	0.592	10.26	7.91	8.07	0.569	9.77	8.82	8.61	0.581	9.16	7.62
10/23/2008	2:45:40	7.36	0.612	11.36	8.11	7.12	0.553	11.57	8.26	7.43	0.593	10.28	7.91	8.02	0.569	9.8	8.82	8.52	0.581	9.15	7.63
10/23/2008	3:00:40	7.28	0.612	11.28	8.11	7.04	0.553	11.64	8.25	7.36	0.593	10.24	7.91	7.99	0.569	9.8	8.84	8.5	0.582	9.17	7.63
10/23/2008	3:15:40	7.21	0.612	11.32	8.11	6.95	0.554	11.6	8.24	7.34	0.594	10.34	7.9	7.92	0.569	9.75	8.84	8.44	0.582	9.32	7.63
10/23/2008	3:30:40	7.16	0.612	11.38	8.11	6.87	0.554	11.62	8.23	7.24	0.594	10.27	7.9	7.89	0.569	9.75	8.83	8.38	0.582	9.21	7.64
10/23/2008	3:45:40	7.1	0.613	11.43	8.11	6.78	0.555	11.69	8.23	7.17	0.594	10.32	7.9	7.86	0.569	9.75	8.84	8.34	0.583	9.26	7.64
10/23/2008	4:00:40	7.03	0.614	11.39	8.11	6.7	0.555	11.66	8.22	7.12	0.595	10.26	7.9	7.82	0.569	9.76	8.83	8.28	0.583	9.33	7.64
10/23/2008	4:15:40	7.01	0.613	11.39	8.1	6.63	0.556	11.76	8.21	7.06	0.595	10.28	7.9	7.78	0.569	9.79	8.83	8.31	0.583	9.21	7.64
10/23/2008	4:30:40	6.96	0.613	11.37	8.1	6.53	0.556	11.7	8.21	7	0.595	10.26	7.9	7.74	0.569	9.8	8.87	8.23	0.584	9.08	7.63
10/23/2008	4:45:40	6.88	0.614	11.39	8.1	6.47	0.556	11.72	8.2	6.92	0.596	10.36	7.9	7.71	0.569	9.8	8.87	8.19	0.583	9.07	7.64
10/23/2008	5:00:40	6.84	0.614	11.39	8.1	6.4	0.557	11.79	8.2	6.88	0.596	10.36	7.9	7.66	0.569	9.85	8.87	8.17	0.583	9.09	7.64
10/23/2008	5:15:40	6.77	0.615	11.42	8.1	6.31	0.557	11.76	8.19	6.84	0.596	10.32	7.9	7.62	0.569	9.88	8.85	8.09	0.584	8.97	7.64
10/23/2008	5:30:40	6.72	0.615	11.47	8.09	6.24	0.557	11.77	8.19	6.79	0.596	10.39	7.9	7.59	0.57	9.89	8.87	8.1	0.584	8.86	7.63
10/23/2008	5:45:40	6.67	0.616	11.49	8.1	6.16	0.558	11.85	8.19	6.72	0.596	10.34	7.89	7.56	0.57	9.91	8.86	8.07	0.584	9.03	7.63
10/23/2008	6:00:40	6.63	0.616	11.48	8.09	6.09	0.558	11.88	8.18	6.7	0.597	10.42	7.9	7.53	0.57	9.95	8.86	8.01	0.584	8.76	7.63
10/23/2008	6:15:40	6.59	0.616	11.47	8.09	6.02	0.558	11.91	8.18	6.63	0.597	10.37	7.89	7.49	0.57	9.94	8.86	7.97	0.585	8.85	7.63
10/23/2008	6:30:40	6.49	0.617	11.53	8.09	5.95	0.558	11.93	8.18	6.59	0.597	10.41	7.89	7.46	0.57	9.95	8.85	7.92	0.585	8.95	7.63
10/23/2008	6:45:40	6.46	0.617	11.54	8.09	5.89	0.559	11.89	8.18	6.55	0.597	10.47	7.9	7.44	0.57	9.93	8.87	7.87	0.585	8.88	7.63
10/23/2008	7:00:40	6.37	0.617	11.56	8.09	5.84	0.559	11.95	8.17	6.5	0.597	10.38	7.9	7.41	0.57	9.97	8.86	7.84	0.585	8.75	7.63
10/23/2008	7:15:40	6.34	0.618	11.58	8.09	5.77	0.559	11.92	8.17	6.47	0.597	10.45	7.89	7.37	0.57	9.95	8.85	7.79	0.585	8.65	7.63
10/23/2008	7:30:40	6.32	0.617	11.62	8.08	5.7	0.56	11.98	8.17	6.41	0.597	10.44	7.89	7.35	0.57	9.93	8.85	7.71	0.586	8.61	7.63
10/23/2008	7:45:40	6.29	0.618	11.62	8.09	5.64	0.56	12.03	8.17	6.41	0.597	10.49	7.89	7.32	0.57	9.94	8.86	7.7	0.586	8.69	7.62
10/23/2008	8:00:40	6.2	0.618	11.71	8.08	5.59	0.56	12	8.17	6.34	0.597	10.5	7.89	7.3	0.57	9.95	8.88	7.68	0.585	8.64	7.62
10/23/2008	8:15:40	6.22	0.618	11.65	8.09	5.53	0.56	12.09	8.17	6.35	0.597	10.49	7.88	7.28	0.57	9.95	8.87	7.62	0.585	8.39	7.62
10/23/2008	8:30:40	6.12	0.618	11.77	8.09	5.49	0.56	12.07	8.17	6.3	0.597	10.5	7.89	7.24	0.571	9.98	8.86	7.6	0.585	8.53	7.62
10/23/2008	8:45:40	6.12	0.618	11.72	8.09	5.48	0.56	12.17	8.17	6.27	0.597	10.5	7.9	7.22	0.571	10	8.86	7.57	0.585	8.32	7.62
10/23/2008	9:00:40	6.05	0.619	11.81	8.09	5.43	0.56	12.21	8.18	6.27	0.597	10.61	7.89	7.21	0.571	9.99	8.86	7.54	0.586	8.31	7.62
10/23/2008	9:15:40	6.05	0.619	11.87	8.09	5.42	0.56	12.31	8.18	6.27	0.597	10.59	7.9	7.21	0.571	10.02	8.86	7.46	0.587	8.38	7.62
10/23/2008	9:30:40	6.02	0.619	11.95	8.1	5.41	0.56	12.34	8.19	6.28	0.597	10.7	7.9	7.21	0.571	10.03	8.86	7.45	0.586	8.23	7.62
10/23/2008	9:45:40	6.01	0.619	12.03	8.1	5.43	0.56	12.42	8.2	6.29	0.597	10.7	7.89	7.21	0.571	10.14	8.86	7.43	0.587	8.19	7.61
10/23/2008	10:00:40	6.02	0.619	11.99	8.11	5.48	0.56	12.51	8.21	6.32	0.597	10.8	7.9	7.21	0.571	10.14	8.87	7.41	0.586	8.31	7.61
10/23/2008	10:15:40	6.05	0.619	12.12	8.11	5.55	0.56	12.68	8.22	6.35	0.597	10.76	7.9	7.22	0.571	10.18	8.85	7.43	0.586	8.13	7.61
10/23/2008	10:30:40	6.07	0.619	12.21	8.11	5.68	0.56	12.8	8.23	6.4	0.597	10.83	7.9	7.25	0.571	10.12	8.86	7.34	0.587	8.25	7.61
10/23/2008	10:45:40	6.11	0.619	12.28	8.12	5.85	0.56	12.87	8.24	6.43	0.597	10.83	7.9	7.27	0.571	10.15	8.86	7.34	0.587	8.27	7.61
10/23/2008	11:00:40	6.14	0.619	12.34	8.12	6	0.56	12.99	8.25	6.49	0.596	10.93	7.9	7.32	0.571	10.2	8.85	7.32	0.587	8.25	7.61
10/23/2008	11:15:40	6.2	0.619	12.17	8.11	6.14	0.56	13.15	8.27	6.56	0.596	11.01	7.9	7.41	0.571	10.24	8.86	7.35	0.587	8.26	7.61
10/23/2008	11:30:40	6.3	0.618	12.37	8.13	6.31	0.56	13.26	8.28	6.63	0.596	10.93	7.91	7.5	0.571	10.26	8.85	7.32	0.587	8.21	7.61
10/23/2008	11:45:40	6.31	0.619	12.36	8.13	6.45	0.56	13.31	8.29	6.71	0.596	10.98	7.92	7.58	0.571	10.39	8.86	7.38	0.587	8.13	7.61
10/23/2008	12:00:40	6.37	0.618	12.39	8.12	6.57	0.56	13.44	8.3	6.8	0.596	11.07	7.93	7.68	0.571	10.44	8.87	7.41	0.587	8.17	7.61
10/23/2008	12:15:40	6.45	0.619	12.53	8.13	6.63	0.56	13.46	8.31	6.87	0.596	11.16	7.93	7.77	0.571	10.56	8.86	7.43	0.587	8.09	7.61
10/23/2008	12:30:40	6.56	0.619	12.57	8.14	6.75	0.561	13.56	8.32	6.98	0.596	11.16	7.93	7.92	0.571	10.56	8.86	7.47	0.587	8.08	7.61
10/23/2008	12:45:40	6.7	0.619	12.73	8.15	6.92	0.561	13.52	8.33	7.06	0.596	11.23	7.93	8	0.571	10.59	8.87	7.5	0.587	7.93	7.61
10/23/2008	13:00:40	6.84	0.618	12.81	8.17	7.18	0.56	13.59	8.34	7.14	0.596	11.16	7.95	8.1	0.571	10.6	8.86	7.55	0.587	7.97	7.61
10/23/2008	13:15:40	7.05	0.618	12.95	8.19	7.37	0.561	13.7	8.35	7.23	0.596	11.17	7.95	8.31	0.57	10.7	8.87	7.58	0.588	8.11	7.61
10/23/2008	13:30:40	7.22	0.618	13.03	8.2	7.49	0.561	13.73	8.36	7.35	0.596	11.3	7.96	8.51	0.57	10.74	8.85	7.62	0.588	7.9	7.6
10/23/2008	13:45:40	7.37	0.618	13.11	8.22	7.65	0.561	13.73	8.37	7.55	0.595	11.31	7.95	8.74	0.57	10.78	8.86	7.7	0.587	8.03	7.6
10/23/2008	14:00:40	7.45	0.618	13.23	8.23	7.57	0.561	13.73	8.37	7.54	0.595	11.42	7.95	9	0.57	10.77	8.86	7.81	0.587	8.31	7.61
10/23/2008	14:15:40	7.55	0.618	13.13	8.23	7.51	0.562	13.8	8.38	7.62	0.595	11.41	7.97	9.06	0.57	10.85	8.85	7.86	0.588	8.11	7.61
10/23/2008	14:30:40	7.7	0.619	13.27	8.23	7.35	0.562	13.66	8.38	7.67	0.595	11.41	7.98	9.23	0.57	10.88	8.86	7.94	0.588	8.12	7.62
10/23/2008	14:45:40	7.93	0.619	13.31	8.25	7.34	0.562	13.75	8.39	7.73	0.595	11.35	7.98	9.32	0.57	10.88	8.85	7.99	0.588	8.34	7.61

EXh . E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/23/2008	15:00:40	7.91	0.618	13.5	8.26	7.45	0.562	13.7	8.4	7.77	0.595	11.42	7.98	9.26	0.571	10.92	8.84	8.04	0.588	8.49	7.62
10/23/2008	15:15:40	8.02	0.618	13.37	8.27	7.55	0.562	13.67	8.41	7.83	0.595	11.41	7.98	9.22	0.571	10.86	8.86	8.09	0.588	8.41	7.62
10/23/2008	15:30:40	8.03	0.618	13.35	8.28	7.65	0.562	13.7	8.42	7.76	0.595	11.34	7.98	9.19	0.571	10.82	8.85	8.16	0.589	8.36	7.62
10/23/2008	15:45:40	8.08	0.618	13.37	8.27	7.72	0.562	13.66	8.42	7.75	0.596	11.34	7.99	9.03	0.572	10.77	8.85	8.14	0.589	8.3	7.62
10/23/2008	16:00:40	8.24	0.62	13.26	8.28	7.82	0.563	13.56	8.43	7.82	0.596	11.3	7.99	8.97	0.572	10.68	8.85	8.1	0.589	8.18	7.62
10/23/2008	16:15:40	8.24	0.62	13.22	8.29	7.89	0.563	13.8	8.44	7.84	0.596	11.31	7.99	8.92	0.572	10.61	8.85	8.07	0.589	8.59	7.63
10/23/2008	16:30:40	8.21	0.621	13.13	8.29	7.91	0.563	13.82	8.44	7.88	0.596	11.28	7.99	8.88	0.573	10.57	8.86	8.07	0.59	8.61	7.64
10/23/2008	16:45:40	8.15	0.622	13.12	8.28	7.96	0.563	13.3	8.44	7.91	0.596	11.22	7.99	8.81	0.573	10.56	8.84	8.06	0.589	8.61	7.64
10/23/2008	17:00:40	8.15	0.622	13.03	8.28	8.04	0.563	13.26	8.44	7.92	0.597	11.19	7.99	8.76	0.574	10.49	8.85	8.05	0.59	8.58	7.64
10/23/2008	17:15:40	8.07	0.623	12.93	8.27	8.14	0.563	13.14	8.44	7.96	0.597	11.09	7.99	8.72	0.574	10.48	8.85	8.07	0.59	8.5	7.65
10/23/2008	17:30:40	8.03	0.624	12.85	8.26	8.25	0.563	13.05	8.44	7.99	0.597	11.1	7.98	8.7	0.574	10.4	8.85	8.08	0.59	8.67	7.65
10/23/2008	17:45:40	8.01	0.624	12.74	8.26	8.36	0.563	12.96	8.45	8.03	0.598	11.07	7.98	8.68	0.575	10.35	8.86	8.09	0.591	8.65	7.65
10/23/2008	18:00:40	7.96	0.625	12.68	8.24	8.46	0.563	12.86	8.45	8.04	0.598	11.04	7.98	8.67	0.575	10.34	8.85	8.09	0.591	8.73	7.66
10/23/2008	18:15:40	7.95	0.625	12.59	8.24	8.53	0.563	12.77	8.45	8.06	0.598	10.97	7.98	8.66	0.575	10.29	8.85	8.09	0.59	8.7	7.66
10/23/2008	18:30:40	7.91	0.626	12.47	8.23	8.56	0.563	12.67	8.45	8.08	0.599	10.95	7.98	8.64	0.575	10.27	8.85	8.11	0.591	8.78	7.66
10/23/2008	18:45:40	7.89	0.625	12.5	8.22	8.56	0.564	12.61	8.45	8.09	0.599	10.93	7.97	8.6	0.575	10.25	8.84	8.1	0.592	8.67	7.66
10/23/2008	19:00:40	7.86	0.626	12.41	8.22	8.53	0.564	12.47	8.44	8.11	0.599	10.9	7.97	8.57	0.575	10.16	8.85	8.11	0.592	8.75	7.66
10/23/2008	19:15:40	7.86	0.626	12.41	8.22	8.49	0.564	12.39	8.43	8.08	0.599	10.75	7.96	8.54	0.575	10.13	8.85	8.1	0.591	8.62	7.66
10/23/2008	19:30:40	7.79	0.626	12.34	8.21	8.45	0.564	12.24	8.42	8.11	0.6	10.73	7.96	8.52	0.575	10.08	8.85	8.09	0.592	8.47	7.66
10/23/2008	19:45:40	7.77	0.627	12.18	8.2	8.38	0.564	12.19	8.41	8.09	0.6	10.67	7.96	8.48	0.575	10.09	8.84	8.1	0.591	8.53	7.66
10/23/2008	20:00:40	7.77	0.627	12.22	8.2	8.33	0.565	12.15	8.4	8.09	0.6	10.71	7.96	8.44	0.575	10.07	8.84	8.06	0.592	8.54	7.66
10/23/2008	20:15:40	7.73	0.627	12.11	8.19	8.27	0.565	12.04	8.39	8.05	0.6	10.76	7.96	8.41	0.576	10.04	8.83	8.07	0.592	8.69	7.66
10/23/2008	20:30:40	7.72	0.627	12.09	8.19	8.21	0.565	11.98	8.39	8.04	0.601	10.7	7.96	8.37	0.576	9.99	8.84	8.05	0.592	8.65	7.66
10/23/2008	20:45:40	7.69	0.628	12.03	8.18	8.14	0.565	11.86	8.38	8.03	0.6	10.72	7.95	8.32	0.576	9.98	8.84	8.06	0.592	8.5	7.67
10/23/2008	21:00:40	7.66	0.628	11.95	8.18	8.09	0.565	11.85	8.37	7.99	0.601	10.67	7.96	8.28	0.576	10.01	8.84	8.05	0.592	8.54	7.66
10/23/2008	21:15:40	7.65	0.629	11.94	8.17	8.04	0.565	11.74	8.37	7.98	0.601	10.61	7.95	8.24	0.576	9.74	8.83	8.07	0.592	8.39	7.67
10/23/2008	21:30:40	7.62	0.629	11.89	8.16	7.98	0.565	11.74	8.36	7.97	0.601	10.59	7.95	8.2	0.576	9.58	8.84	8.03	0.592	8.38	7.67
10/23/2008	21:45:40	7.61	0.63	11.84	8.16	7.93	0.565	11.65	8.35	7.94	0.601	10.6	7.95	8.16	0.576	9.53	8.85	8.05	0.592	8.53	7.67
10/23/2008	22:00:40	7.57	0.63	11.84	8.16	7.88	0.565	11.65	8.35	7.92	0.601	10.64	7.95	8.12	0.576	9.97	8.84	8.03	0.593	8.44	7.67
10/23/2008	22:15:40	7.56	0.631	11.79	8.16	7.82	0.565	11.62	8.35	7.9	0.601	10.65	7.95	8.08	0.576	9.93	8.84	8.04	0.593	8.53	7.67
10/23/2008	22:30:40	7.52	0.631	11.76	8.15	7.78	0.565	11.59	8.34	7.87	0.601	10.62	7.95	8.05	0.576	9.91	8.86	8	0.593	8.51	7.67
10/23/2008	22:45:40	7.5	0.631	11.77	8.15	7.72	0.565	11.59	8.33	7.83	0.602	10.63	7.95	8	0.576	9.78	8.86	8	0.593	8.39	7.67
10/23/2008	23:00:40	7.48	0.632	11.7	8.15	7.68	0.565	11.48	8.33	7.82	0.602	10.61	7.94	7.95	0.577	9.89	8.86	8.02	0.593	8.49	7.67
10/23/2008	23:15:40	7.49	0.632	11.68	8.14	7.63	0.566	11.51	8.32	7.75	0.602	10.6	7.94	7.9	0.577	9.9	8.85	8	0.593	8.28	7.67
10/23/2008	23:30:40	7.44	0.632	11.69	8.14	7.58	0.566	11.44	8.32	7.74	0.602	10.53	7.94	7.87	0.577	9.83	8.85	7.96	0.594	8.43	7.68
10/23/2008	23:45:40	7.4	0.633	11.68	8.14	7.53	0.566	11.47	8.32	7.69	0.603	10.56	7.94	7.84	0.577	9.85	8.85	7.98	0.594	8.28	7.68
10/24/2008	0:00:40	7.38	0.633	11.65	8.13	7.49	0.566	11.41	8.31	7.7	0.604	10.48	7.94	7.78	0.578	9.9	8.84	7.95	0.594	8.28	7.68
10/24/2008	0:15:40	7.32	0.634	11.67	8.13	7.43	0.566	11.37	8.31	7.66	0.604	10.5	7.94	7.77	0.578	9.86	8.85	7.94	0.595	8.38	7.68
10/24/2008	0:30:40	7.35	0.633	11.58	8.13	7.38	0.566	11.36	8.3	7.63	0.605	10.44	7.93	7.71	0.578	9.84	8.84	7.94	0.595	8.38	7.68
10/24/2008	0:45:40	7.29	0.634	11.59	8.13	7.33	0.566	11.35	8.3	7.61	0.606	10.49	7.93	7.69	0.579	9.74	8.85	7.92	0.595	8.21	7.68
10/24/2008	1:00:40	7.23	0.634	11.59	8.13	7.27	0.567	11.34	8.29	7.58	0.606	10.42	7.93	7.66	0.579	9.82	8.84	7.9	0.595	8.23	7.68
10/24/2008	1:15:40	7.19	0.634	11.61	8.13	7.22	0.567	11.4	8.28	7.54	0.607	10.44	7.93	7.63	0.579	9.81	8.86	7.89	0.595	8.27	7.68
10/24/2008	1:30:40	7.15	0.634	11.63	8.12	7.19	0.567	11.33	8.28	7.53	0.607	10.43	7.93	7.59	0.58	9.82	8.86	7.85	0.596	8.15	7.68
10/24/2008	1:45:40	7.11	0.635	11.61	8.12	7.14	0.567	11.33	8.27	7.51	0.608	10.43	7.93	7.57	0.58	9.75	8.85	7.84	0.595	8.05	7.68
10/24/2008	2:00:40	7.1	0.635	11.55	8.12	7.1	0.568	11.37	8.27	7.5	0.609	10.41	7.92	7.55	0.581	9.79	8.86	7.82	0.596	7.99	7.68
10/24/2008	2:15:40	7.06	0.635	11.59	8.12	7.06	0.568	11.32	8.26	7.47	0.609	10.41	7.92	7.53	0.581	9.77	8.85	7.81	0.596	7.93	7.67
10/24/2008	2:30:40	7.06	0.635	11.53	8.12	7.02	0.568	11.3	8.25	7.47	0.609	10.38	7.92	7.5	0.581	9.89	8.85	7.8	0.596	7.9	7.67
10/24/2008	2:45:40	7.03	0.635	11.59	8.12	6.98	0.568	11.3	8.25	7.46	0.61	10.33	7.92	7.5	0.581	9.84	8.84	7.77	0.596	7.86	7.67
10/24/2008	3:00:40	7.04	0.635	11.55	8.12	6.96	0.568	11.36	8.24	7.46	0.61	10.26	7.92	7.49	0.581	9.87	8.85	7.79	0.596	7.85	7.66
10/24/2008	3:15:40	7.03	0.635	11.53	8.11	6.95	0.569	11.33	8.23	7.47	0.61	10.32	7.92	7.46	0.582	9.89	8.85	7.76	0.596	7.7	7.66
10/24/2008	3:30:40	7.03	0.635	11.52	8.11	6.9	0.569	11.3	8.23	7.44	0.611	10.28	7.91	7.46	0.582	9.87	8.85	7.77	0.596	7.79	7.66
10/24/2008	3:45:40	7.04	0.636	11.52	8.11	6.89	0.569	11.32	8.23	7.46	0.611	10.24	7.91	7.46	0.582	9.9	8.84	7.73	0.596	7.66	7.66

EXH. . E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/24/2008	4:00:40	7.04	0.635	11.48	8.11	6.89	0.569	11.37	8.22	7.46	0.611	10.22	7.91	7.44	0.582	9.9	8.85	7.73	0.596	7.61	7.65
10/24/2008	4:15:40	7.02	0.636	11.55	8.11	6.86	0.57	11.34	8.21	7.46	0.611	10.27	7.91	7.44	0.582	9.84	8.85	7.74	0.596	7.67	7.65
10/24/2008	4:30:40	7.03	0.636	11.54	8.1	6.85	0.57	11.33	8.21	7.45	0.611	10.22	7.91	7.45	0.582	9.86	8.85	7.75	0.597	7.64	7.65
10/24/2008	4:45:40	7.02	0.636	11.54	8.1	6.83	0.57	11.31	8.2	7.43	0.612	10.25	7.9	7.42	0.583	9.92	8.85	7.73	0.596	7.55	7.65
10/24/2008	5:00:40	7.03	0.636	11.5	8.1	6.79	0.571	11.43	8.2	7.42	0.612	10.27	7.9	7.43	0.583	9.94	8.84	7.74	0.596	7.57	7.65
10/24/2008	5:15:40	7.02	0.636	11.5	8.1	6.78	0.571	11.47	8.2	7.41	0.612	10.23	7.9	7.4	0.583	9.91	8.85	7.7	0.597	7.61	7.65
10/24/2008	5:30:40	7.01	0.636	11.55	8.1	6.76	0.571	11.41	8.19	7.39	0.612	10.25	7.9	7.4	0.583	9.91	8.85	7.69	0.597	7.53	7.65
10/24/2008	5:45:40	7.03	0.637	11.49	8.09	6.74	0.572	11.47	8.19	7.39	0.612	10.21	7.9	7.4	0.583	9.7	8.86	7.69	0.596	7.41	7.65
10/24/2008	6:00:40	7.02	0.636	11.52	8.1	6.73	0.572	11.41	8.18	7.37	0.612	10.26	7.9	7.4	0.583	9.92	8.84	7.7	0.597	7.44	7.64
10/24/2008	6:15:40	7.01	0.637	11.52	8.09	6.72	0.572	11.46	8.18	7.35	0.612	10.28	7.9	7.4	0.583	9.87	8.85	7.69	0.597	7.33	7.64
10/24/2008	6:30:40	6.99	0.637	11.51	8.09	6.69	0.572	11.42	8.18	7.34	0.612	10.26	7.9	7.37	0.583	9.93	8.88	7.68	0.597	7.25	7.64
10/24/2008	6:45:40	7.02	0.637	11.51	8.09	6.67	0.572	11.5	8.17	7.33	0.612	10.27	7.9	7.35	0.583	9.92	8.89	7.68	0.598	7.3	7.64
10/24/2008	7:00:40	6.98	0.637	11.51	8.09	6.66	0.573	11.42	8.17	7.31	0.612	10.25	7.9	7.35	0.583	9.91	8.89	7.66	0.598	7.21	7.64
10/24/2008	7:15:40	6.98	0.638	11.54	8.09	6.65	0.573	11.48	8.17	7.29	0.612	10.26	7.9	7.36	0.583	9.93	8.87	7.66	0.599	7.3	7.64
10/24/2008	7:30:40	6.99	0.638	11.53	8.09	6.64	0.573	11.5	8.17	7.27	0.612	10.23	7.9	7.37	0.583	9.9	8.88	7.63	0.599	7.15	7.64
10/24/2008	7:45:40	6.98	0.638	11.51	8.09	6.63	0.573	11.51	8.16	7.25	0.612	10.21	7.9	7.38	0.583	9.81	8.87	7.62	0.6	7.21	7.64
10/24/2008	8:00:40	6.97	0.638	11.53	8.09	6.62	0.574	11.45	8.16	7.24	0.612	10.28	7.9	7.37	0.583	9.86	8.87	7.62	0.6	7.23	7.64
10/24/2008	8:15:40	6.97	0.638	11.52	8.09	6.61	0.576	11.45	8.16	7.23	0.612	10.25	7.9	7.35	0.583	9.93	8.87	7.61	0.6	7.07	7.63
10/24/2008	8:30:40	6.97	0.639	11.56	8.09	6.61	0.583	11.51	8.16	7.22	0.612	10.26	7.9	7.35	0.583	9.96	8.87	7.6	0.6	7.09	7.64
10/24/2008	8:45:40	6.99	0.638	11.59	8.08	6.6	0.577	11.51	8.16	7.22	0.612	10.3	7.9	7.34	0.583	9.93	8.87	7.59	0.6	7.16	7.64
10/24/2008	9:00:40	7	0.638	11.6	8.09	6.61	0.574	11.62	8.16	7.22	0.612	10.41	7.91	7.35	0.583	10.01	8.87	7.6	0.6	7.07	7.63
10/24/2008	9:15:40	7.04	0.638	11.61	8.08	6.62	0.574	11.62	8.17	7.23	0.611	10.47	7.91	7.35	0.583	10.04	8.88	7.56	0.602	7.02	7.63
10/24/2008	9:30:40	7.06	0.639	11.69	8.09	6.63	0.575	11.74	8.17	7.24	0.611	10.56	7.91	7.37	0.583	10.02	8.88	7.56	0.602	7.03	7.63
10/24/2008	9:45:40	7.06	0.639	11.83	8.09	6.65	0.575	11.82	8.18	7.25	0.611	10.56	7.92	7.39	0.583	10.04	8.87	7.58	0.602	6.99	7.63
10/24/2008	10:00:40	7.07	0.639	11.85	8.1	6.67	0.575	12.17	8.18	7.27	0.611	10.6	7.93	7.4	0.583	10.05	8.87	7.58	0.603	7.11	7.63
10/24/2008	10:15:40	7.14	0.638	11.82	8.09	6.7	0.576	12	8.19	7.3	0.611	10.73	7.93	7.44	0.582	10.04	8.88	7.6	0.603	6.98	7.63
10/24/2008	10:30:40	7.12	0.639	12.02	8.11	6.74	0.576	12.11	8.2	7.32	0.611	10.78	7.94	7.46	0.582	10.15	8.87	7.61	0.603	7.04	7.63
10/24/2008	10:45:40	7.16	0.639	12.09	8.11	6.78	0.575	12.23	8.22	7.35	0.611	10.82	7.94	7.46	0.583	10.18	8.87	7.61	0.604	6.94	7.63
10/24/2008	11:00:40	7.19	0.639	12.16	8.12	6.82	0.575	12.27	8.23	7.38	0.61	10.9	7.95	7.49	0.583	10.23	8.87	7.62	0.604	6.92	7.63
10/24/2008	11:15:40	7.23	0.639	12.24	8.13	6.87	0.575	12.36	8.24	7.41	0.61	10.92	7.95	7.53	0.583	10.25	8.87	7.64	0.604	7.03	7.63
10/24/2008	11:30:40	7.24	0.639	12.3	8.13	6.91	0.576	12.5	8.25	7.44	0.61	10.98	7.96	7.56	0.583	10.3	8.88	7.65	0.604	7	7.63
10/24/2008	11:45:40	7.3	0.639	12.48	8.15	6.96	0.58	12.54	8.27	7.49	0.61	11.04	7.97	7.58	0.583	10.31	8.88	7.64	0.604	6.9	7.63
10/24/2008	12:00:40	7.36	0.639	12.63	8.17	7.03	0.573	12.62	8.28	7.53	0.61	11.06	7.97	7.64	0.582	10.38	8.88	7.66	0.605	6.92	7.64
10/24/2008	12:15:40	7.42	0.639	12.77	8.18	7.1	0.573	12.73	8.3	7.6	0.61	11.17	7.98	7.67	0.583	10.45	8.89	7.7	0.605	7	7.64
10/24/2008	12:30:40	7.46	0.639	12.92	8.19	7.17	0.573	12.88	8.31	7.65	0.61	11.18	7.99	7.71	0.583	10.51	8.92	7.71	0.605	7.02	7.64
10/24/2008	12:45:40	7.55	0.64	12.95	8.21	7.25	0.573	12.92	8.33	7.7	0.61	11.28	8	7.74	0.583	10.51	8.92	7.74	0.605	6.96	7.63
10/24/2008	13:00:40	7.59	0.64	13.04	8.22	7.34	0.574	13.07	8.35	7.8	0.609	11.29	8.01	7.82	0.583	10.33	8.91	7.77	0.606	6.84	7.63
10/24/2008	13:15:40	7.67	0.64	13.17	8.23	7.45	0.574	13.11	8.37	7.88	0.609	11.3	8.01	7.89	0.583	10.61	8.91	7.82	0.606	6.93	7.63
10/24/2008	13:30:40	7.75	0.64	13.22	8.25	7.56	0.574	13.28	8.39	7.93	0.609	11.4	8.02	7.95	0.583	10.52	8.92	7.85	0.605	7.06	7.63
10/24/2008	13:45:40	7.83	0.64	13.38	8.26	7.66	0.574	13.36	8.4	8.02	0.609	11.48	8.03	8.02	0.583	10.7	8.91	7.89	0.606	6.87	7.63
10/24/2008	14:00:40	7.94	0.64	13.49	8.27	7.75	0.574	13.35	8.42	8.08	0.609	11.54	8.04	8.08	0.583	10.72	8.91	7.89	0.607	6.9	7.64
10/24/2008	14:15:40	7.96	0.641	13.51	8.29	7.83	0.575	13.49	8.43	8.12	0.609	11.42	8.04	8.13	0.583	10.75	8.91	7.9	0.606	6.78	7.63
10/24/2008	14:30:40	7.98	0.641	13.63	8.29	7.92	0.575	13.45	8.45	8.18	0.609	11.54	8.04	8.19	0.583	10.77	8.91	7.95	0.606	6.84	7.63
10/24/2008	14:45:40	8.05	0.64	13.7	8.3	8	0.575	13.49	8.46	8.26	0.609	11.57	8.05	8.24	0.583	10.74	8.91	7.97	0.607	6.9	7.63
10/24/2008	15:00:40	8.19	0.64	13.75	8.31	8.08	0.575	13.57	8.48	8.31	0.609	11.65	8.05	8.3	0.583	10.69	8.91	8	0.607	6.84	7.63
10/24/2008	15:15:40	8.22	0.641	13.9	8.33	8.17	0.575	13.66	8.5	8.38	0.608	11.62	8.06	8.38	0.583	10.82	8.91	8.04	0.607	6.97	7.64
10/24/2008	15:30:40	8.27	0.64	13.81	8.34	8.24	0.575	13.66	8.51	8.39	0.609	11.51	8.05	8.44	0.584	10.87	8.9	8.05	0.607	6.92	7.64
10/24/2008	15:45:40	8.34	0.641	13.65	8.35	8.28	0.576	14.23	8.51	8.42	0.608	11.52	8.06	8.46	0.585	10.79	8.91	8.06	0.608	6.78	7.64
10/24/2008	16:00:40	8.38	0.642	13.38	8.34	8.3	0.576	13.53	8.52	8.41	0.609	11.37	8.04	8.46	0.585	10.71	8.91	8.08	0.608	6.78	7.64
10/24/2008	16:15:40	8.4	0.641	13.48	8.34	8.31	0.576	13.37	8.51	8.39	0.609	11.33	8.03	8.48	0.585	10.72	8.9	8.09	0.609	6.83	7.64
10/24/2008	16:30:40	8.42	0.641	13.17	8.34	8.32	0.576	13.28	8.51	8.41	0.607	11.12	8.02	8.51	0.585	10.68	8.91	8.1	0.609	6.83	7.65
10/24/2008	16:45:40	8.42	0.641	13.14	8.33	8.35	0.575	13.15	8.51	8.4	0.607	11.1	8.02	8.53	0.585	10.66	8.9	8.09	0.61	6.76	7.64

EXH. . E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/24/2008	17:00:40	8.41	0.641	12.95	8.32	8.37	0.575	13.14	8.51	8.4	0.606	11.02	8.02	8.55	0.585	10.57	8.9	8.09	0.61	6.78	7.65
10/24/2008	17:15:40	8.4	0.64	12.77	8.31	8.38	0.575	13.05	8.51	8.39	0.605	11.09	8.02	8.55	0.585	10.55	8.9	8.08	0.61	6.72	7.65
10/24/2008	17:30:40	8.4	0.639	12.69	8.29	8.39	0.575	12.85	8.51	8.37	0.604	10.99	8.01	8.55	0.585	10.51	8.9	8.09	0.61	6.68	7.65
10/24/2008	17:45:40	8.37	0.638	12.58	8.29	8.4	0.575	12.88	8.5	8.38	0.603	10.98	8.02	8.57	0.585	10.43	8.9	8.08	0.61	6.69	7.65
10/24/2008	18:00:40	8.35	0.636	12.43	8.27	8.41	0.574	12.56	8.49	8.38	0.602	10.93	8.01	8.56	0.585	10.4	8.9	8.08	0.611	6.76	7.65
10/24/2008	18:15:40	8.35	0.636	12.37	8.26	8.42	0.573	12.55	8.49	8.38	0.6	10.82	8.01	8.56	0.585	10.38	8.9	8.1	0.61	6.75	7.65
10/24/2008	18:30:40	8.36	0.636	12.34	8.26	8.43	0.573	12.41	8.48	8.37	0.601	10.77	8.01	8.58	0.585	10.21	8.89	8.12	0.61	6.71	7.64
10/24/2008	18:45:40	8.33	0.636	12.19	8.25	8.44	0.573	12.25	8.47	8.37	0.6	10.77	8	8.57	0.585	10.32	8.88	8.13	0.61	6.85	7.64
10/24/2008	19:00:40	8.34	0.636	12.1	8.23	8.45	0.573	12.18	8.46	8.38	0.601	10.71	8	8.58	0.585	9.98	8.88	8.14	0.61	6.87	7.64
10/24/2008	19:15:40	8.29	0.637	12.04	8.22	8.46	0.573	12.02	8.46	8.38	0.601	10.74	8	8.58	0.586	10.16	8.88	8.08	0.611	6.84	7.65
10/24/2008	19:30:40	8.3	0.638	11.93	8.22	8.46	0.573	11.97	8.43	8.39	0.602	10.73	7.99	8.58	0.586	10.07	8.88	8.09	0.61	6.89	7.67
10/24/2008	19:45:40	8.3	0.644	11.91	8.21	8.48	0.573	11.82	8.44	8.4	0.603	10.62	7.99	8.58	0.587	10	8.87	8.1	0.61	6.81	7.67
10/24/2008	20:00:40	8.29	0.659	11.83	8.2	8.48	0.573	11.72	8.44	8.41	0.604	10.58	7.99	8.58	0.587	10.06	8.87	8.09	0.61	6.78	7.67
10/24/2008	20:15:40	8.3	0.668	11.74	8.19	8.49	0.573	11.61	8.43	8.42	0.605	10.64	7.99	8.58	0.587	9.99	8.86	8.06	0.61	6.86	7.67
10/24/2008	20:30:40	8.31	0.673	11.69	8.19	8.5	0.573	11.6	8.43	8.44	0.605	10.55	7.98	8.59	0.588	9.96	8.85	8.08	0.609	6.71	7.67
10/24/2008	20:45:40	8.32	0.676	11.64	8.18	8.52	0.573	11.53	8.42	8.46	0.605	10.58	7.98	8.58	0.588	9.94	8.85	8.07	0.609	6.75	7.67
10/24/2008	21:00:40	8.33	0.676	11.6	8.18	8.53	0.572	11.47	8.41	8.48	0.605	10.55	7.98	8.58	0.588	9.89	8.85	8.08	0.609	6.74	7.67
10/24/2008	21:15:40	8.34	0.676	11.61	8.17	8.54	0.572	11.35	8.41	8.5	0.604	10.48	7.98	8.58	0.588	9.89	8.87	8.07	0.609	6.72	7.66
10/24/2008	21:30:40	8.36	0.675	11.54	8.17	8.56	0.571	11.28	8.41	8.51	0.603	10.42	7.97	8.57	0.588	9.83	8.86	8.06	0.609	6.7	7.66
10/24/2008	21:45:40	8.37	0.678	11.53	8.17	8.57	0.571	11.23	8.41	8.54	0.603	10.43	7.97	8.58	0.588	9.81	8.85	8.09	0.609	6.67	7.66
10/24/2008	22:00:40	8.39	0.685	11.5	8.16	8.59	0.571	11.18	8.4	8.56	0.602	10.37	7.97	8.57	0.588	9.77	8.85	8.1	0.609	6.57	7.66
10/24/2008	22:15:40	8.4	0.687	11.46	8.16	8.61	0.57	11.2	8.4	8.57	0.602	10.37	7.97	8.58	0.588	9.79	8.84	8.12	0.609	6.56	7.66
10/24/2008	22:30:40	8.43	0.693	11.4	8.15	8.63	0.57	11.09	8.4	8.6	0.601	10.39	7.97	8.58	0.588	9.74	8.85	8.12	0.609	6.62	7.66
10/24/2008	22:45:40	8.45	0.695	11.36	8.15	8.64	0.57	11.09	8.39	8.61	0.601	10.33	7.97	8.59	0.589	9.67	8.85	8.13	0.609	6.51	7.65
10/24/2008	23:00:40	8.46	0.7	11.32	8.15	8.66	0.57	11	8.39	8.63	0.601	10.36	7.97	8.6	0.589	9.63	8.85	8.13	0.609	6.59	7.65
10/24/2008	23:15:40	8.48	0.705	11.32	8.14	8.68	0.57	11.02	8.38	8.64	0.601	10.33	7.96	8.6	0.589	9.6	8.84	8.13	0.609	6.51	7.66
10/24/2008	23:30:40	8.5	0.716	11.3	8.14	8.7	0.57	10.94	8.38	8.65	0.602	10.34	7.96	8.59	0.589	9.56	8.84	8.16	0.609	6.52	7.66
10/24/2008	23:45:40	8.52	0.73	11.27	8.13	8.71	0.57	10.94	8.37	8.67	0.602	10.31	7.96	8.6	0.589	9.49	8.83	8.16	0.608	6.56	7.66
10/25/2008	0:00:40	8.54	0.74	11.22	8.13	8.73	0.57	10.86	8.37	8.67	0.603	10.24	7.96	8.59	0.589	9.56	8.82	8.17	0.609	6.53	7.66
10/25/2008	0:15:40	8.56	0.754	11.15	8.12	8.75	0.57	10.89	8.36	8.69	0.604	10.23	7.95	8.6	0.59	9.49	8.82	8.2	0.609	6.48	7.66
10/25/2008	0:30:40	8.58	0.764	11.13	8.11	8.76	0.57	10.85	8.35	8.7	0.605	10.16	7.95	8.6	0.59	9.5	8.82	8.21	0.609	6.47	7.66
10/25/2008	0:45:40	8.59	0.776	11.09	8.11	8.78	0.57	10.77	8.34	8.71	0.607	10.17	7.95	8.6	0.591	9.42	8.82	8.23	0.609	6.48	7.65
10/25/2008	1:00:40	8.62	0.792	11.03	8.1	8.79	0.57	10.79	8.33	8.73	0.608	10.07	7.94	8.6	0.591	9.46	8.82	8.26	0.608	6.51	7.65
10/25/2008	1:15:40	8.64	0.801	10.98	8.1	8.81	0.57	10.71	8.33	8.75	0.609	10.05	7.93	8.61	0.592	9.47	8.81	8.29	0.609	6.44	7.64
10/25/2008	1:30:40	8.67	0.813	10.97	8.09	8.82	0.57	10.61	8.32	8.76	0.612	10	7.92	8.62	0.593	9.43	8.82	8.31	0.608	6.46	7.63
10/25/2008	1:45:40	8.68	0.821	10.9	8.09	8.83	0.569	10.64	8.31	8.78	0.614	9.91	7.92	8.63	0.593	9.38	8.81	8.33	0.608	6.31	7.62
10/25/2008	2:00:40	8.7	0.828	10.87	8.08	8.84	0.569	10.67	8.3	8.79	0.617	9.89	7.91	8.63	0.594	9.36	8.82	8.35	0.608	6.27	7.63
10/25/2008	2:15:40	8.72	0.833	10.88	8.08	8.85	0.569	10.62	8.29	8.8	0.619	9.83	7.91	8.63	0.594	9.38	8.81	8.35	0.608	6.36	7.63
10/25/2008	2:30:40	8.73	0.837	10.85	8.07	8.86	0.569	10.66	8.28	8.82	0.62	9.81	7.9	8.63	0.595	9.36	8.81	8.39	0.608	6.37	7.62
10/25/2008	2:45:40	8.74	0.838	10.82	8.07	8.87	0.569	10.56	8.27	8.83	0.621	9.73	7.9	8.64	0.595	9.38	8.81	8.42	0.608	6.24	7.61
10/25/2008	3:00:40	8.76	0.843	10.8	8.07	8.88	0.569	10.57	8.26	8.84	0.622	9.66	7.89	8.64	0.595	9.36	8.8	8.43	0.608	6.2	7.6
10/25/2008	3:15:40	8.78	0.844	10.77	8.06	8.88	0.569	10.55	8.25	8.85	0.622	9.69	7.89	8.64	0.596	9.35	8.81	8.46	0.608	6.1	7.59
10/25/2008	3:30:40	8.76	0.842	10.74	8.06	8.89	0.569	10.57	8.24	8.87	0.622	9.63	7.88	8.64	0.596	9.35	8.8	8.46	0.609	6.23	7.6
10/25/2008	3:45:40	8.8	0.847	10.7	8.06	8.9	0.569	10.43	8.22	8.88	0.622	9.62	7.88	8.64	0.597	9.32	8.81	8.47	0.609	6.28	7.61
10/25/2008	4:00:40	8.81	0.849	10.7	8.05	8.91	0.569	10.5	8.21	8.88	0.622	9.63	7.88	8.65	0.597	9.3	8.8	8.5	0.609	6.17	7.61
10/25/2008	4:15:40	8.83	0.849	10.67	8.05	8.91	0.569	10.54	8.2	8.89	0.622	9.61	7.87	8.64	0.597	9.31	8.8	8.52	0.609	6.19	7.61
10/25/2008	4:30:40	8.84	0.849	10.62	8.05	8.92	0.569	10.48	8.19	8.91	0.622	9.55	7.87	8.64	0.597	9.3	8.8	8.52	0.609	6.32	7.61
10/25/2008	4:45:40	8.85	0.851	10.63	8.04	8.93	0.569	10.51	8.18	8.92	0.622	9.55	7.87	8.65	0.597	9.25	8.8	8.54	0.609	6.14	7.61
10/25/2008	5:00:40	8.87	0.851	10.59	8.04	8.93	0.569	11.42	8.17	8.93	0.622	9.5	7.87	8.64	0.598	9.23	8.8	8.57	0.61	5.95	7.61
10/25/2008	5:15:40	8.89	0.852	10.6	8.04	8.94	0.569	10.44	8.17	8.94	0.622	9.5	7.86	8.65	0.598	9.28	8.79	8.56	0.61	6.19	7.61
10/25/2008	5:30:40	8.89	0.853	10.57	8.04	8.94	0.569	10.47	8.16	8.95	0.622	9.47	7.86	8.65	0.598	9.29	8.8	8.58	0.61	5.97	7.6
10/25/2008	5:45:40	8.91	0.853	10.57	8.04	8.95	0.569	10.42	8.15	8.96	0.622	9.38	7.85	8.65	0.598	9.29	8.8	8.57	0.611	5.87	7.6

EXI E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/25/2008	6:00:40	8.9	0.853	10.55	8.04	8.94	0.569	10.45	8.14	8.95	0.622	9.4	7.85	8.64	0.598	9.28	8.79	8.57	0.611	5.95	7.61
10/25/2008	6:15:40	8.89	0.853	10.54	8.03	8.92	0.57	10.4	8.14	8.93	0.622	9.4	7.85	8.62	0.598	9.29	8.8	8.59	0.611	6.11	7.61
10/25/2008	6:30:40	8.88	0.852	10.49	8.04	8.89	0.57	10.35	8.13	8.92	0.623	9.4	7.85	8.62	0.598	9.29	8.8	8.59	0.611	5.96	7.63
10/25/2008	6:45:40	8.87	0.851	10.5	8.03	8.87	0.57	10.36	8.12	8.91	0.623	9.3	7.84	8.6	0.598	9.31	8.79	8.62	0.612	5.85	7.63
10/25/2008	7:00:40	8.86	0.85	10.48	8.03	8.84	0.57	10.34	8.12	8.9	0.623	9.26	7.84	8.58	0.598	9.29	8.84	8.63	0.612	5.99	7.65
10/25/2008	7:15:40	8.86	0.849	10.45	8.03	8.83	0.57	10.4	8.11	8.9	0.623	9.32	7.84	8.57	0.598	9.27	8.83	8.65	0.612	5.94	7.64
10/25/2008	7:30:40	8.86	0.849	10.46	8.02	8.83	0.57	10.39	8.11	8.9	0.623	9.31	7.84	8.58	0.598	9.3	8.82	8.66	0.612	5.91	7.63
10/25/2008	7:45:40	8.85	0.845	10.41	8.03	8.82	0.57	10.37	8.1	8.89	0.623	9.24	7.84	8.56	0.598	9.29	8.82	8.66	0.612	5.82	7.63
10/25/2008	8:00:40	8.85	0.842	10.44	8.03	8.81	0.571	10.34	8.1	8.89	0.623	9.28	7.84	8.56	0.598	9.29	8.82	8.63	0.613	5.91	7.63
10/25/2008	8:15:40	8.86	0.842	10.38	8.03	8.81	0.571	10.4	8.1	8.9	0.623	9.29	7.84	8.56	0.598	9.29	8.82	8.63	0.612	5.85	7.63
10/25/2008	8:30:40	8.86	0.841	10.34	8.02	8.82	0.571	10.43	8.1	8.91	0.623	9.28	7.84	8.57	0.599	9.33	8.81	8.66	0.612	5.82	7.64
10/25/2008	8:45:40	8.87	0.841	10.35	8.01	8.83	0.571	10.45	8.1	8.93	0.623	9.24	7.84	8.58	0.599	9.33	8.81	8.68	0.613	5.86	7.64
10/25/2008	9:00:40	8.89	0.839	10.38	8.02	8.84	0.571	10.49	8.1	8.96	0.623	9.34	7.84	8.59	0.599	9.36	8.81	8.69	0.613	5.71	7.64
10/25/2008	9:15:40	8.9	0.837	10.36	8.01	8.86	0.571	10.56	8.1	8.99	0.623	9.41	7.85	8.61	0.599	9.35	8.82	8.7	0.614	5.74	7.64
10/25/2008	9:30:40	8.93	0.835	10.39	8.01	8.9	0.572	10.67	8.11	9.02	0.623	9.53	7.85	8.64	0.599	9.35	8.82	8.73	0.614	5.67	7.63
10/25/2008	9:45:40	8.95	0.833	10.39	8.01	8.93	0.572	10.71	8.12	9.06	0.622	9.63	7.86	8.66	0.6	9.44	8.82	8.73	0.614	5.73	7.63
10/25/2008	10:00:40	8.97	0.832	10.45	8.01	8.96	0.572	10.86	8.13	9.07	0.622	9.67	7.87	8.67	0.6	9.47	8.82	8.74	0.615	5.63	7.63
10/25/2008	10:15:40	9.01	0.829	10.44	8.01	9.01	0.572	10.94	8.14	9.12	0.622	9.74	7.88	8.7	0.6	9.5	8.82	8.77	0.615	5.69	7.63
10/25/2008	10:30:40	9.05	0.827	10.67	8.02	9.07	0.572	11.15	8.15	9.15	0.621	9.87	7.88	8.73	0.6	9.57	8.82	8.8	0.614	5.63	7.62
10/25/2008	10:45:40	9.1	0.823	10.74	8.03	9.19	0.572	11.23	8.17	9.24	0.621	10.02	7.9	8.77	0.6	9.54	8.82	8.81	0.615	5.54	7.62
10/25/2008	11:00:40	9.14	0.815	11.07	8.06	9.39	0.571	11.42	8.19	9.24	0.621	10.01	7.9	8.82	0.6	9.58	8.82	8.82	0.616	5.6	7.62
10/25/2008	11:15:40	9.19	0.814	11.18	8.07	9.44	0.572	11.47	8.2	9.37	0.621	10.13	7.91	8.88	0.6	9.67	8.83	8.85	0.615	5.57	7.61
10/25/2008	11:30:40	9.25	0.812	11.38	8.08	9.63	0.571	11.68	8.22	9.44	0.62	10.26	7.92	8.96	0.6	9.75	8.82	8.88	0.615	5.56	7.61
10/25/2008	11:45:40	9.32	0.806	11.59	8.1	9.82	0.572	11.83	8.24	9.47	0.62	10.36	7.93	9.05	0.6	9.7	8.83	8.9	0.615	5.48	7.6
10/25/2008	12:00:40	9.44	0.799	11.85	8.14	9.83	0.572	11.91	8.26	9.54	0.62	10.4	7.94	9.14	0.6	9.8	8.82	8.92	0.616	5.38	7.6
10/25/2008	12:15:40	9.5	0.798	12.01	8.15	9.97	0.572	12.11	8.28	9.55	0.62	10.35	7.94	9.18	0.6	9.81	8.83	8.95	0.616	5.38	7.6
10/25/2008	12:30:40	9.61	0.793	12.02	8.17	10.08	0.572	12.24	8.31	9.64	0.62	10.54	7.96	9.31	0.599	9.92	8.84	8.98	0.616	5.4	7.6
10/25/2008	12:45:40	9.67	0.792	12.24	8.19	10.17	0.572	12.35	8.33	9.68	0.62	10.51	7.96	9.36	0.599	9.97	8.83	9.03	0.616	5.36	7.6
10/25/2008	13:00:40	9.7	0.79	12.33	8.2	10.26	0.572	12.42	8.35	9.68	0.62	10.43	7.96	9.42	0.599	9.95	8.84	9.08	0.615	5.32	7.59
10/25/2008	13:15:40	9.8	0.788	12.43	8.22	10.33	0.572	12.54	8.37	9.67	0.62	10.5	7.97	9.51	0.599	10.02	8.84	9.1	0.616	5.33	7.59
10/25/2008	13:30:40	9.85	0.785	12.5	8.24	10.51	0.573	12.69	8.39	9.79	0.62	10.68	7.99	9.59	0.599	10.06	8.88	9.12	0.616	5.32	7.59
10/25/2008	13:45:40	9.92	0.782	12.55	8.25	10.58	0.573	12.69	8.41	9.67	0.62	10.71	7.98	9.71	0.599	10.15	8.87	9.14	0.616	5.42	7.58
10/25/2008	14:00:40	9.93	0.78	12.57	8.26	10.5	0.573	12.76	8.4	9.68	0.62	10.61	7.99	9.75	0.599	10.06	8.88	9.16	0.616	5.39	7.58
10/25/2008	14:15:40	10	0.776	12.66	8.28	10.35	0.574	12.67	8.38	9.64	0.62	10.68	7.99	9.8	0.599	10.13	8.87	9.2	0.616	5.14	7.58
10/25/2008	14:30:40	10.06	0.774	12.61	8.29	10.26	0.574	12.76	8.38	9.62	0.62	10.69	7.99	9.82	0.599	10.15	8.87	9.23	0.617	5.22	7.57
10/25/2008	14:45:40	10.09	0.77	12.61	8.3	10.19	0.575	12.73	8.46	9.62	0.621	10.77	7.99	9.84	0.599	10.16	8.86	9.27	0.616	5.02	7.57
10/25/2008	15:00:40	10.07	0.771	12.77	8.3	10.19	0.576	12.78	8.48	9.61	0.621	10.64	7.99	9.86	0.599	10.08	8.87	9.3	0.616	5.01	7.57
10/25/2008	15:15:40	10.12	0.767	12.82	8.31	10.22	0.576	12.72	8.49	9.65	0.621	10.71	8	9.89	0.599	10.08	8.86	9.32	0.616	5	7.57
10/25/2008	15:30:40	10.13	0.762	12.65	8.32	10.25	0.577	12.78	8.5	9.64	0.621	10.8	8	9.91	0.599	10.15	8.86	9.34	0.617	5.13	7.56
10/25/2008	15:45:40	10.13	0.758	12.68	8.32	10.3	0.578	12.86	8.51	9.68	0.621	10.79	8.01	9.92	0.599	10.06	8.86	9.36	0.617	5.28	7.57
10/25/2008	16:00:40	10.12	0.762	12.79	8.32	10.33	0.578	12.67	8.52	9.68	0.621	10.8	8.01	9.94	0.599	10.03	8.86	9.37	0.616	4.94	7.57
10/25/2008	16:15:40	10.11	0.754	12.65	8.33	10.36	0.579	12.66	8.53	9.7	0.621	10.77	8.01	9.94	0.599	10.02	8.85	9.39	0.617	4.93	7.57
10/25/2008	16:30:40	10.1	0.754	12.63	8.32	10.38	0.58	12.64	8.53	9.71	0.621	10.68	8.01	9.95	0.599	10	8.86	9.42	0.617	5.11	7.58
10/25/2008	16:45:40	10.1	0.754	12.7	8.33	10.38	0.581	12.6	8.54	9.72	0.621	10.68	8.01	9.94	0.6	10	8.85	9.53	0.616	5.18	7.59
10/25/2008	17:00:40	10.1	0.751	12.64	8.32	10.39	0.582	12.55	8.54	9.74	0.621	10.7	8.01	9.94	0.6	9.89	8.85	9.57	0.618	5.23	7.59
10/25/2008	17:15:40	10.07	0.747	12.5	8.32	10.37	0.582	12.46	8.55	9.73	0.621	10.7	8.01	9.91	0.6	9.84	8.86	9.5	0.618	4.99	7.59
10/25/2008	17:30:40	10.01	0.742	12.33	8.32	10.33	0.583	12.34	8.55	9.71	0.621	10.62	8	9.9	0.6	9.81	8.85	9.59	0.618	5.25	7.6
10/25/2008	17:45:40	9.97	0.741	12.26	8.31	10.28	0.584	12.32	8.54	9.69	0.622	10.56	8	9.86	0.6	9.76	8.85	9.57	0.619	5.14	7.61
10/25/2008	18:00:40	9.95	0.74	12.24	8.3	10.24	0.585	12.16	8.54	9.68	0.622	10.48	8	9.84	0.6	9.68	8.85	9.53	0.619	4.89	7.6
10/25/2008	18:15:40	9.91	0.738	12.05	8.29	10.19	0.585	12.03	8.54	9.66	0.623	10.45	8	9.79	0.6	9.66	8.85	9.55	0.619	4.83	7.59
10/25/2008	18:30:40	9.86	0.734	11.84	8.28	10.14	0.586	11.97	8.53	9.63	0.623	10.36	7.99	9.75	0.6	9.6	8.84	9.55	0.619	4.87	7.58
10/25/2008	18:45:40	9.82	0.735	11.81	8.27	10.09	0.587	11.6	8.53	9.61	0.623	10.37	7.99	9.73	0.601	9.54	8.84	9.56	0.619	5.01	7.59

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/25/2008	19:00:40	9.79	0.733	11.77	8.26	10.04	0.587	11.65	8.52	9.57	0.624	10.32	7.99	9.69	0.6	9.45	8.87	9.56	0.619	5.2	7.6
10/25/2008	19:15:40	9.71	0.73	11.56	8.25	9.97	0.588	11.53	8.52	9.54	0.624	10.26	7.99	9.66	0.6	9.41	8.89	9.56	0.619	5.3	7.61
10/25/2008	19:30:40	9.66	0.727	11.45	8.23	9.91	0.588	11.24	8.51	9.5	0.624	10.31	7.99	9.61	0.601	9.37	8.88	9.55	0.62	5.22	7.62
10/25/2008	19:45:40	9.62	0.727	11.39	8.22	9.84	0.588	11.17	8.51	9.46	0.624	10.23	7.99	9.57	0.602	9.29	8.88	9.54	0.62	5.25	7.62
10/25/2008	20:00:40	9.58	0.725	11.28	8.22	9.77	0.589	11.25	8.5	9.41	0.625	10.26	7.99	9.52	0.601	9.32	8.87	9.52	0.62	5.18	7.62
10/25/2008	20:15:40	9.52	0.724	11.25	8.21	9.7	0.589	11.16	8.49	9.36	0.625	10.28	7.99	9.49	0.602	9.28	8.86	9.49	0.62	5.17	7.62
10/25/2008	20:30:40	9.48	0.72	11.16	8.2	9.64	0.59	11.12	8.49	9.32	0.625	10.26	7.99	9.44	0.602	9.24	8.85	9.48	0.62	5.21	7.62
10/25/2008	20:45:40	9.42	0.72	11.12	8.19	9.56	0.59	11.03	8.48	9.27	0.626	10.21	7.99	9.39	0.603	9.23	8.84	9.46	0.62	5.13	7.63
10/25/2008	21:00:40	9.37	0.716	11.09	8.19	9.5	0.59	10.93	8.48	9.23	0.626	10.25	7.99	9.35	0.602	9.18	8.84	9.44	0.62	5.11	7.63
10/25/2008	21:15:40	9.33	0.718	11.04	8.18	9.43	0.59	10.77	8.47	9.19	0.626	10.23	7.98	9.3	0.603	9.13	8.84	9.43	0.62	5.06	7.63
10/25/2008	21:30:40	9.29	0.717	10.98	8.18	9.37	0.591	10.78	8.47	9.14	0.626	10.24	7.98	9.26	0.603	9.14	8.83	9.41	0.62	5.13	7.63
10/25/2008	21:45:40	9.26	0.715	10.94	8.17	9.3	0.591	10.75	8.46	9.12	0.627	10.22	7.98	9.23	0.603	9.07	8.84	9.4	0.62	5.14	7.63
10/25/2008	22:00:40	9.2	0.713	10.92	8.17	9.24	0.591	10.69	8.46	9.06	0.627	10.13	7.98	9.18	0.604	9.04	8.83	9.36	0.621	5.14	7.63
10/25/2008	22:15:40	9.14	0.712	10.9	8.17	9.18	0.591	10.71	8.46	9.02	0.627	10.14	7.97	9.15	0.604	9.03	8.83	9.34	0.62	5.06	7.63
10/25/2008	22:30:40	9.11	0.711	10.88	8.16	9.11	0.591	10.68	8.45	8.98	0.628	10.08	7.97	9.13	0.604	8.97	8.83	9.33	0.62	5.05	7.63
10/25/2008	22:45:40	9.09	0.711	10.81	8.16	9.06	0.592	10.65	8.45	8.94	0.628	10.11	7.97	9.08	0.605	8.96	8.83	9.31	0.62	5	7.63
10/25/2008	23:00:40	9.03	0.71	10.79	8.16	8.99	0.592	10.63	8.44	8.89	0.628	10.12	7.97	9.03	0.605	8.92	8.82	9.27	0.621	5.01	7.63
10/25/2008	23:15:40	8.98	0.709	10.85	8.15	8.93	0.592	10.61	8.44	8.85	0.628	10.03	7.97	9.02	0.606	8.91	8.82	9.26	0.62	4.95	7.63
10/25/2008	23:30:40	8.92	0.706	10.85	8.15	8.87	0.592	10.59	8.43	8.8	0.628	10.04	7.96	8.96	0.606	8.91	8.82	9.23	0.62	4.93	7.64
10/25/2008	23:45:40	8.89	0.706	10.81	8.15	8.81	0.592	10.51	8.43	8.76	0.629	10.02	7.96	8.97	0.606	8.85	8.82	9.21	0.62	4.88	7.63
10/26/2008	0:00:40	8.83	0.704	10.8	8.15	8.76	0.592	10.54	8.42	8.71	0.629	10.02	7.96	8.92	0.608	8.84	8.81	9.19	0.62	4.87	7.63
10/26/2008	0:15:40	8.8	0.704	10.79	8.15	8.69	0.593	10.54	8.41	8.66	0.629	9.95	7.95	8.87	0.608	8.82	8.82	9.17	0.62	4.79	7.63
10/26/2008	0:30:40	8.76	0.703	10.74	8.14	8.64	0.593	10.47	8.41	8.64	0.629	9.97	7.95	8.86	0.609	8.81	8.81	9.17	0.62	4.83	7.63
10/26/2008	0:45:40	8.73	0.702	10.74	8.14	8.6	0.593	10.5	8.4	8.61	0.63	9.96	7.95	8.82	0.609	8.81	8.82	9.15	0.62	4.89	7.64
10/26/2008	1:00:40	8.7	0.701	10.78	8.14	8.55	0.593	10.45	8.39	8.56	0.63	9.94	7.94	8.79	0.609	8.82	8.81	9.13	0.62	4.88	7.64
10/26/2008	1:15:40	8.63	0.701	10.75	8.14	8.5	0.594	10.5	8.37	8.51	0.63	9.86	7.94	8.77	0.609	8.8	8.81	9.11	0.62	4.75	7.64
10/26/2008	1:30:40	8.59	0.701	10.66	8.13	8.44	0.594	10.45	8.36	8.47	0.631	9.9	7.94	8.72	0.61	8.81	8.81	9.09	0.621	4.76	7.65
10/26/2008	1:45:40	8.58	0.7	10.68	8.13	8.39	0.595	10.49	8.35	8.42	0.631	9.91	7.94	8.72	0.61	8.77	8.8	9.07	0.62	4.75	7.65
10/26/2008	2:00:40	8.49	0.699	10.75	8.13	8.33	0.595	10.5	8.34	8.36	0.632	9.9	7.93	8.67	0.611	8.75	8.82	9.04	0.62	4.83	7.65
10/26/2008	2:15:40	8.47	0.698	10.76	8.13	8.28	0.595	10.5	8.33	8.32	0.632	9.89	7.93	8.61	0.611	8.8	8.84	9.02	0.621	4.79	7.64
10/26/2008	2:30:40	8.39	0.697	10.81	8.13	8.23	0.596	10.44	8.31	8.28	0.632	9.89	7.93	8.6	0.611	8.74	8.83	9	0.62	4.73	7.64
10/26/2008	2:45:40	8.35	0.697	10.79	8.13	8.18	0.596	10.49	8.3	8.25	0.633	9.88	7.93	8.57	0.611	8.68	8.83	8.98	0.62	4.61	7.64
10/26/2008	3:00:40	8.31	0.697	10.79	8.13	8.14	0.596	10.49	8.29	8.21	0.633	9.79	7.92	8.55	0.611	8.74	8.82	8.95	0.62	4.6	7.64
10/26/2008	3:15:40	8.27	0.696	10.77	8.12	8.08	0.597	10.54	8.28	8.18	0.634	9.77	7.92	8.52	0.612	8.74	8.82	8.93	0.62	4.58	7.64
10/26/2008	3:30:40	8.23	0.696	10.79	8.12	8.03	0.597	10.51	8.26	8.14	0.634	9.78	7.92	8.51	0.612	8.75	8.81	8.91	0.62	4.51	7.64
10/26/2008	3:45:40	8.2	0.696	10.77	8.12	7.98	0.598	10.46	8.25	8.11	0.634	9.75	7.92	8.49	0.612	8.7	8.81	8.88	0.621	4.51	7.64
10/26/2008	4:00:40	8.19	0.695	10.78	8.11	7.93	0.598	10.45	8.24	8.1	0.635	9.81	7.92	8.44	0.612	8.74	8.82	8.88	0.62	4.43	7.64
10/26/2008	4:15:40	8.16	0.695	10.81	8.11	7.9	0.598	10.44	8.24	8.07	0.635	9.81	7.91	8.46	0.612	8.72	8.81	8.86	0.621	4.43	7.63
10/26/2008	4:30:40	8.18	0.695	10.75	8.11	7.86	0.599	10.51	8.23	8.05	0.635	9.81	7.91	8.45	0.612	8.71	8.81	8.86	0.62	4.44	7.63
10/26/2008	4:45:40	8.1	0.694	10.84	8.11	7.82	0.599	10.58	8.22	8.04	0.635	9.78	7.91	8.43	0.613	8.67	8.81	8.82	0.621	4.36	7.62
10/26/2008	5:00:40	8.09	0.694	10.82	8.11	7.79	0.599	10.46	8.21	8.01	0.636	9.8	7.91	8.4	0.612	8.7	8.81	8.8	0.62	4.39	7.62
10/26/2008	5:15:40	8.07	0.694	10.83	8.11	7.75	0.6	10.47	8.21	8	0.636	9.79	7.91	8.38	0.613	8.7	8.81	8.79	0.621	4.28	7.63
10/26/2008	5:30:40	8.05	0.693	10.79	8.11	7.7	0.6	10.54	8.2	7.98	0.636	9.83	7.91	8.35	0.613	8.67	8.8	8.77	0.621	4.31	7.62
10/26/2008	5:45:40	8.02	0.693	10.82	8.11	7.66	0.601	10.5	8.19	7.96	0.636	9.8	7.91	8.37	0.613	8.7	8.8	8.77	0.621	4.22	7.62
10/26/2008	6:00:40	8.01	0.692	10.84	8.1	7.62	0.601	10.5	8.19	7.95	0.636	9.75	7.91	8.36	0.613	8.67	8.8	8.74	0.621	4.25	7.62
10/26/2008	6:15:40	7.97	0.692	10.87	8.1	7.59	0.601	10.5	8.18	7.93	0.636	9.8	7.91	8.34	0.613	8.69	8.81	8.74	0.621	4.26	7.61
10/26/2008	6:30:40	7.96	0.692	10.83	8.1	7.56	0.601	10.56	8.18	7.92	0.636	9.8	7.9	8.32	0.613	8.69	8.81	8.74	0.621	4.12	7.61
10/26/2008	6:45:40	7.96	0.692	10.82	8.1	7.52	0.601	10.54	8.17	7.9	0.637	9.76	7.9	8.32	0.613	8.68	8.8	8.73	0.621	4.09	7.61
10/26/2008	7:00:40	7.93	0.691	10.84	8.1	7.5	0.602	10.53	8.17	7.89	0.637	9.73	7.9	8.29	0.613	8.73	8.8	8.67	0.621	4.22	7.61
10/26/2008	7:15:40	7.91	0.691	10.86	8.1	7.48	0.602	10.58	8.16	7.88	0.637	9.74	7.9	8.28	0.613	8.68	8.81	8.65	0.621	4.03	7.61
10/26/2008	7:30:40	7.91	0.69	10.86	8.1	7.45	0.602	10.6	8.16	7.87	0.637	9.8	7.9	8.3	0.613	8.65	8.81	8.61	0.621	4.01	7.61
10/26/2008	7:45:40	7.87	0.69	10.92	8.1	7.42	0.603	10.62	8.16	7.85	0.637	9.83	7.9	8.29	0.613	8.6	8.81	8.62	0.621	4	7.61

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/26/2008	8:00:40	7.87	0.69	10.88	8.09	7.4	0.603	10.64	8.16	7.84	0.637	9.83	7.9	8.26	0.613	8.66	8.81	8.58	0.621	3.94	7.6
10/26/2008	8:15:40	7.89	0.689	10.92	8.09	7.39	0.603	10.6	8.16	7.83	0.637	9.83	7.9	8.26	0.613	8.62	8.81	8.58	0.621	3.9	7.6
10/26/2008	8:30:40	7.88	0.689	10.92	8.09	7.38	0.603	10.97	8.16	7.84	0.637	9.87	7.91	8.27	0.614	8.62	8.81	8.59	0.621	3.96	7.6
10/26/2008	8:45:40	7.88	0.689	11.05	8.1	7.39	0.603	10.75	8.16	7.87	0.637	9.94	7.91	8.28	0.614	8.63	8.81	8.62	0.621	3.84	7.6
10/26/2008	9:00:40	7.9	0.689	11.08	8.11	7.43	0.603	10.82	8.17	7.9	0.637	10.04	7.92	8.29	0.614	8.66	8.81	8.6	0.621	3.9	7.59
10/26/2008	9:15:40	7.92	0.688	11.13	8.11	7.46	0.603	10.98	8.18	7.94	0.637	10.1	7.92	8.31	0.614	8.65	8.81	8.57	0.622	3.82	7.6
10/26/2008	9:30:40	7.96	0.688	11.32	8.12	7.49	0.603	11.09	8.18	7.98	0.637	10.16	7.93	8.33	0.613	8.7	8.81	8.57	0.622	3.85	7.6
10/26/2008	9:45:40	8	0.687	11.32	8.12	7.56	0.603	11.19	8.2	8.04	0.636	10.27	7.93	8.35	0.613	8.76	8.81	8.56	0.623	3.86	7.61
10/26/2008	10:00:40	8.02	0.688	11.41	8.13	7.61	0.603	11.37	8.21	8.06	0.636	10.28	7.94	8.37	0.613	8.83	8.82	8.57	0.623	3.86	7.61
10/26/2008	10:15:40	8.05	0.687	11.58	8.14	7.65	0.603	11.48	8.22	8.11	0.636	10.34	7.94	8.4	0.613	8.81	8.82	8.59	0.623	3.86	7.61
10/26/2008	10:30:40	8.09	0.687	11.58	8.14	7.81	0.603	11.62	8.24	8.17	0.636	10.4	7.94	8.42	0.613	8.89	8.82	8.6	0.624	3.8	7.61
10/26/2008	10:45:40	8.14	0.687	11.73	8.15	7.98	0.603	11.73	8.26	8.22	0.636	10.39	7.95	8.46	0.612	8.84	8.82	8.58	0.625	3.82	7.61
10/26/2008	11:00:40	8.21	0.687	11.8	8.17	8.16	0.602	11.88	8.28	8.31	0.635	10.51	7.96	8.53	0.612	8.9	8.82	8.61	0.624	3.89	7.61
10/26/2008	11:15:40	8.23	0.687	11.86	8.17	8.33	0.602	12.01	8.3	8.35	0.635	10.57	7.96	8.59	0.612	9.02	8.83	8.62	0.625	3.83	7.61
10/26/2008	11:30:40	8.33	0.687	11.93	8.17	8.49	0.602	12.16	8.31	8.41	0.635	10.69	7.97	8.66	0.611	9.01	8.82	8.63	0.625	3.76	7.61
10/26/2008	11:45:40	8.36	0.687	12.05	8.18	8.59	0.602	12.25	8.33	8.48	0.635	10.66	7.98	8.75	0.611	9.1	8.82	8.67	0.625	3.77	7.61
10/26/2008	12:00:40	8.47	0.687	12.03	8.19	8.57	0.603	12.19	8.33	8.53	0.635	10.69	7.98	8.8	0.611	9.17	8.83	8.67	0.625	3.75	7.61
10/26/2008	12:15:40	8.5	0.687	12.15	8.2	8.48	0.603	12.15	8.33	8.55	0.635	10.78	7.98	8.87	0.61	9.21	8.83	8.68	0.625	3.83	7.61
10/26/2008	12:30:40	8.64	0.688	12.3	8.21	8.46	0.603	12.15	8.34	8.6	0.635	10.7	7.99	8.92	0.609	9.27	8.84	8.72	0.625	3.74	7.61
10/26/2008	12:45:40	8.79	0.687	12.47	8.22	8.49	0.603	12.22	8.35	8.61	0.634	10.76	7.99	8.96	0.609	9.25	8.84	8.71	0.626	3.71	7.6
10/26/2008	13:00:40	8.86	0.687	12.64	8.23	8.59	0.602	12.24	8.36	8.7	0.634	10.79	8	9.06	0.608	9.39	8.84	8.74	0.626	3.75	7.6
10/26/2008	13:15:40	8.91	0.687	12.78	8.25	8.74	0.603	12.41	8.37	8.78	0.634	10.87	8	9.16	0.608	9.47	8.88	8.77	0.626	3.75	7.6
10/26/2008	13:30:40	9	0.687	13.01	8.27	8.73	0.603	12.4	8.39	8.8	0.634	10.9	8.01	9.24	0.608	9.45	8.89	8.77	0.626	3.62	7.6
10/26/2008	13:45:40	9.14	0.687	13.14	8.29	8.75	0.603	12.48	8.4	8.9	0.634	11	8.02	9.34	0.607	9.52	8.88	8.79	0.626	3.63	7.6
10/26/2008	14:00:40	9.22	0.687	13.09	8.3	8.86	0.603	12.58	8.41	8.98	0.634	11.03	8.02	9.45	0.607	9.57	8.87	8.84	0.627	3.7	7.59
10/26/2008	14:15:40	9.29	0.687	13.09	8.31	8.95	0.602	12.61	8.43	9.08	0.634	11.11	8.03	9.57	0.606	9.56	8.83	8.83	0.628	3.59	7.59
10/26/2008	14:30:40	9.43	0.686	13.14	8.33	9.01	0.603	12.73	8.44	9.07	0.634	11.06	8.04	9.61	0.606	9.57	8.84	8.85	0.628	3.62	7.59
10/26/2008	14:45:40	9.53	0.686	13.08	8.35	9.1	0.602	12.72	8.46	9.12	0.634	11.16	8.04	9.7	0.605	9.68	8.85	8.88	0.628	3.56	7.59
10/26/2008	15:00:40	9.58	0.686	13.07	8.35	9.15	0.603	12.81	8.47	9.2	0.633	11.23	8.05	9.81	0.605	9.7	8.84	8.88	0.627	3.56	7.58
10/26/2008	15:15:40	9.68	0.686	13.09	8.36	9.26	0.603	12.79	8.48	9.3	0.633	11.18	8.05	9.88	0.605	9.68	8.85	8.92	0.627	3.62	7.58
10/26/2008	15:30:40	9.76	0.686	13.12	8.36	9.37	0.603	12.87	8.5	9.36	0.633	11.19	8.05	9.96	0.605	9.69	8.85	8.98	0.628	3.57	7.59
10/26/2008	15:45:40	9.82	0.686	13.04	8.37	9.47	0.603	12.89	8.51	9.39	0.633	11.15	8.05	9.95	0.604	9.65	8.85	8.97	0.628	3.5	7.59
10/26/2008	16:00:40	9.82	0.686	13	8.37	9.5	0.603	12.82	8.52	9.39	0.633	11.05	8.05	9.95	0.604	9.61	8.84	8.98	0.628	3.5	7.58
10/26/2008	16:15:40	9.82	0.686	13.11	8.37	9.5	0.603	12.78	8.52	9.39	0.633	11.06	8.05	9.94	0.605	9.54	8.84	8.99	0.627	3.37	7.58
10/26/2008	16:30:40	9.83	0.686	12.91	8.37	9.49	0.603	12.68	8.52	9.41	0.633	10.99	8.05	9.93	0.605	9.46	8.84	9	0.628	3.41	7.57
10/26/2008	16:45:40	9.8	0.687	12.73	8.36	9.45	0.603	12.53	8.52	9.4	0.633	11	8.05	9.92	0.605	9.43	8.84	9.02	0.627	3.27	7.57
10/26/2008	17:00:40	9.77	0.687	12.69	8.35	9.45	0.603	12.46	8.52	9.38	0.633	10.86	8.04	9.89	0.605	9.4	8.83	9.03	0.628	3.3	7.56
10/26/2008	17:15:40	9.7	0.687	12.5	8.34	9.45	0.604	12.41	8.52	9.37	0.633	10.85	8.03	9.86	0.606	9.26	8.84	9.04	0.628	3.23	7.56
10/26/2008	17:30:40	9.68	0.687	12.41	8.33	9.47	0.604	12.27	8.52	9.36	0.633	10.76	8.03	9.83	0.606	9.22	8.83	9.06	0.628	3.16	7.55
10/26/2008	17:45:40	9.64	0.687	12.33	8.33	9.5	0.604	12.23	8.52	9.34	0.633	10.64	8.02	9.81	0.606	9.14	8.83	9.08	0.628	3.13	7.55
10/26/2008	18:00:40	9.58	0.688	12.21	8.31	9.53	0.604	12.16	8.52	9.33	0.633	10.64	8.02	9.78	0.606	9.03	8.83	9.09	0.628	3.16	7.55
10/26/2008	18:15:40	9.53	0.688	12.04	8.3	9.55	0.604	12	8.52	9.31	0.634	10.52	8.01	9.76	0.606	9.02	8.82	9.08	0.628	3.17	7.54
10/26/2008	18:30:40	9.51	0.688	11.94	8.29	9.58	0.604	11.93	8.52	9.3	0.634	10.48	8.01	9.74	0.607	8.98	8.82	9.1	0.628	3.19	7.54
10/26/2008	18:45:40	9.43	0.689	11.85	8.27	9.58	0.604	11.76	8.52	9.29	0.634	10.39	8.01	9.69	0.606	8.89	8.83	9.11	0.629	3.04	7.53
10/26/2008	19:00:40	9.44	0.689	11.77	8.27	9.57	0.605	11.67	8.51	9.29	0.634	10.42	8	9.69	0.606	8.86	8.81	9.12	0.629	2.95	7.53
10/26/2008	19:15:40	9.4	0.689	11.66	8.26	9.56	0.605	11.51	8.51	9.3	0.635	10.32	8	9.65	0.608	8.8	8.82	9.16	0.629	3.25	7.53
10/26/2008	19:30:40	9.35	0.689	11.54	8.25	9.54	0.605	11.42	8.5	9.29	0.635	10.33	7.99	9.63	0.608	8.81	8.82	9.16	0.629	3.27	7.53
10/26/2008	19:45:40	9.35	0.689	11.54	8.24	9.5	0.605	11.32	8.49	9.31	0.635	10.26	7.99	9.61	0.608	8.72	8.81	9.15	0.629	3.16	7.53
10/26/2008	20:00:40	9.32	0.689	11.45	8.23	9.48	0.606	11.15	8.48	9.31	0.635	10.28	7.99	9.59	0.608	8.63	8.82	9.16	0.629	3.32	7.54
10/26/2008	20:15:40	9.25	0.69	11.38	8.22	9.44	0.606	11.09	8.47	9.3	0.636	10.28	7.98	9.55	0.609	8.56	8.81	9.15	0.629	3.33	7.55
10/26/2008	20:30:40	9.21	0.69	11.31	8.21	9.39	0.606	10.96	8.46	9.3	0.636	10.22	7.99	9.51	0.609	8.52	8.81	9.14	0.63	3.09	7.55
10/26/2008	20:45:40	9.19	0.691	11.23	8.21	9.34	0.606	10.91	8.45	9.27	0.637	10.23	7.98	9.49	0.609	8.56	8.81	9.17	0.629	3.31	7.55

EXH. . E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/26/2008	21:00:40	9.16	0.691	11.21	8.2	9.29	0.606	10.79	8.45	9.28	0.637	10.15	7.98	9.46	0.609	8.51	8.81	9.16	0.63	3.26	7.56
10/26/2008	21:15:40	9.11	0.691	11.14	8.2	9.25	0.606	10.68	8.44	9.25	0.637	10.17	7.98	9.42	0.609	8.41	8.8	9.19	0.629	3.72	7.56
10/26/2008	21:30:40	9.04	0.691	11.11	8.19	9.22	0.606	10.61	8.43	9.21	0.638	10.15	7.98	9.4	0.61	8.3	8.79	9.19	0.63	3.62	7.6
10/26/2008	21:45:40	9.02	0.691	11.07	8.19	9.18	0.606	10.59	8.42	9.16	0.638	10.15	7.97	9.34	0.609	8.38	8.8	9.18	0.63	3.56	7.6
10/26/2008	22:00:40	9.01	0.692	11.08	8.18	9.13	0.606	10.63	8.42	9.15	0.639	10.03	7.97	9.29	0.61	8.4	8.79	9.16	0.63	3.68	7.61
10/26/2008	22:15:40	8.99	0.692	11.05	8.18	9.1	0.607	10.49	8.41	9.11	0.64	10.1	7.97	9.26	0.611	8.29	8.85	9.16	0.63	3.63	7.62
10/26/2008	22:30:40	8.96	0.693	11.01	8.17	9.07	0.607	10.47	8.4	9.13	0.64	10.08	7.97	9.24	0.61	8.31	8.84	9.16	0.63	3.63	7.62
10/26/2008	22:45:40	8.9	0.694	10.96	8.17	9.05	0.607	10.43	8.4	9.08	0.641	10.01	7.97	9.17	0.611	8.35	8.82	9.16	0.63	3.63	7.61
10/26/2008	23:00:40	8.88	0.694	10.96	8.16	9.01	0.607	10.39	8.39	9.04	0.642	10.02	7.96	9.12	0.612	8.34	8.81	9.16	0.63	3.65	7.61
10/26/2008	23:15:40	8.83	0.697	10.93	8.16	8.96	0.607	10.29	8.39	9.03	0.643	9.94	7.96	9.08	0.612	8.26	8.81	9.16	0.631	3.63	7.62
10/26/2008	23:30:40	8.8	0.698	10.9	8.16	8.92	0.607	10.24	8.38	9	0.644	9.89	7.96	9.04	0.613	8.22	8.81	9.15	0.631	3.6	7.62
10/26/2008	23:45:40	8.76	0.7	10.91	8.15	8.89	0.607	10.19	8.38	8.97	0.644	9.87	7.96	9.02	0.613	8.2	8.8	9.15	0.631	3.62	7.62
10/27/2008	0:00:40	8.72	0.7	10.88	8.15	8.84	0.607	10.23	8.38	8.92	0.645	9.89	7.95	8.96	0.614	8.21	8.8	9.14	0.631	3.59	7.63
10/27/2008	0:15:40	8.64	0.7	10.85	8.15	8.8	0.607	10.21	8.37	8.88	0.646	9.83	7.95	8.93	0.615	8.18	8.8	9.11	0.631	3.51	7.62
10/27/2008	0:30:40	8.58	0.701	10.85	8.14	8.76	0.607	10.14	8.37	8.84	0.647	9.84	7.94	8.9	0.616	8.16	8.81	9.08	0.631	3.54	7.62
10/27/2008	0:45:40	8.53	0.701	10.82	8.14	8.71	0.607	10.09	8.36	8.78	0.648	9.78	7.94	8.87	0.617	8.14	8.81	9.08	0.631	3.53	7.62
10/27/2008	1:00:40	8.47	0.701	10.81	8.14	8.63	0.608	10.08	8.36	8.73	0.649	9.72	7.94	8.8	0.617	8.14	8.8	9.05	0.631	3.63	7.63
10/27/2008	1:15:40	8.38	0.701	10.81	8.14	8.57	0.608	10.05	8.35	8.67	0.65	9.76	7.94	8.76	0.618	8.12	8.8	9.03	0.631	3.49	7.63
10/27/2008	1:30:40	8.29	0.701	10.87	8.13	8.49	0.608	10.11	8.34	8.62	0.651	9.77	7.93	8.71	0.619	8.1	8.81	9.01	0.631	3.45	7.63
10/27/2008	1:45:40	8.24	0.7	10.82	8.13	8.41	0.608	10.11	8.34	8.56	0.651	9.69	7.93	8.66	0.619	8.13	8.8	8.99	0.631	3.44	7.63
10/27/2008	2:00:40	8.15	0.701	10.86	8.13	8.34	0.608	10.04	8.33	8.48	0.652	9.72	7.93	8.6	0.619	8.12	8.8	9.01	0.631	3.41	7.63
10/27/2008	2:15:40	8.08	0.701	10.88	8.12	8.25	0.609	10.02	8.33	8.42	0.653	9.71	7.92	8.56	0.62	8.11	8.8	8.97	0.632	3.42	7.63
10/27/2008	2:30:40	8.02	0.702	10.82	8.12	8.18	0.609	10.07	8.32	8.36	0.653	9.7	7.92	8.54	0.621	8.08	8.8	8.96	0.631	3.44	7.63
10/27/2008	2:45:40	7.97	0.702	10.85	8.12	8.1	0.609	10.03	8.31	8.32	0.654	9.69	7.92	8.5	0.622	8.08	8.8	8.91	0.632	3.41	7.63
10/27/2008	3:00:40	7.9	0.702	10.84	8.11	8.03	0.61	10.01	8.3	8.24	0.655	9.7	7.92	8.43	0.623	8.07	8.8	8.87	0.632	3.4	7.63
10/27/2008	3:15:40	7.82	0.702	10.84	8.11	7.97	0.61	10.06	8.29	8.17	0.655	9.68	7.91	8.41	0.623	8.05	8.8	8.84	0.632	3.44	7.64
10/27/2008	3:30:40	7.75	0.702	10.85	8.11	7.89	0.61	10.09	8.28	8.12	0.656	9.67	7.91	8.38	0.623	8.02	8.8	8.81	0.633	3.23	7.64
10/27/2008	3:45:40	7.69	0.702	10.86	8.11	7.81	0.611	10.04	8.27	8.07	0.655	9.6	7.91	8.32	0.624	8.02	8.8	8.78	0.633	3.21	7.63
10/27/2008	4:00:40	7.65	0.701	10.87	8.11	7.75	0.611	10.08	8.27	8.05	0.656	9.64	7.91	8.3	0.625	8	8.8	8.74	0.633	3.21	7.63
10/27/2008	4:15:40	7.6	0.701	10.83	8.11	7.68	0.611	10.11	8.26	7.98	0.656	9.59	7.9	8.26	0.626	7.96	8.79	8.7	0.633	3.17	7.63
10/27/2008	4:30:40	7.52	0.7	10.86	8.1	7.6	0.612	10.06	8.25	7.94	0.656	9.63	7.9	8.21	0.628	7.94	8.81	8.66	0.633	3.22	7.63
10/27/2008	4:45:40	7.49	0.7	10.86	8.1	7.54	0.612	10.06	8.24	7.88	0.657	9.59	7.9	8.17	0.627	8	8.8	8.62	0.633	3.22	7.63
10/27/2008	5:00:40	7.42	0.699	10.86	8.1	7.46	0.612	10.13	8.23	7.86	0.657	9.62	7.9	8.16	0.628	7.95	8.8	8.61	0.633	3.11	7.63
10/27/2008	5:15:40	7.36	0.7	10.86	8.1	7.38	0.612	10.16	8.22	7.78	0.657	9.57	7.9	8.13	0.628	7.95	8.81	8.56	0.634	3.13	7.63
10/27/2008	5:30:40	7.34	0.7	10.83	8.09	7.29	0.613	10.18	8.21	7.73	0.657	9.62	7.9	8.06	0.628	8.01	8.8	8.52	0.634	3.08	7.63
10/27/2008	5:45:40	7.22	0.7	10.78	8.09	7.22	0.613	10.13	8.21	7.67	0.657	9.57	7.89	8.02	0.629	8.01	8.8	8.52	0.633	3.11	7.63
10/27/2008	6:00:40	7.21	0.699	10.86	8.09	7.15	0.613	10.14	8.2	7.61	0.657	9.62	7.89	8.01	0.627	7.98	8.8	8.47	0.634	3.17	7.63
10/27/2008	6:15:40	7.19	0.699	10.83	8.09	7.08	0.614	10.21	8.19	7.59	0.656	9.58	7.89	7.99	0.629	7.96	8.81	8.48	0.634	2.97	7.62
10/27/2008	6:30:40	7.14	0.699	10.95	8.09	7.03	0.614	10.18	8.19	7.54	0.656	9.58	7.89	7.99	0.629	7.93	8.81	8.41	0.634	3.01	7.62
10/27/2008	6:45:40	7.11	0.699	10.94	8.09	6.98	0.614	10.24	8.18	7.49	0.656	9.63	7.89	7.89	0.632	7.99	8.8	8.4	0.634	2.95	7.62
10/27/2008	7:00:40	7.08	0.699	10.94	8.09	6.92	0.614	10.23	8.18	7.45	0.656	9.6	7.89	7.9	0.632	7.99	8.81	8.38	0.634	2.9	7.62
10/27/2008	7:15:40	7.04	0.699	11	8.09	6.87	0.615	10.67	8.17	7.39	0.656	9.66	7.89	7.88	0.632	7.96	8.8	8.35	0.634	2.9	7.62
10/27/2008	7:30:40	7.03	0.699	10.89	8.09	6.83	0.615	10.25	8.17	7.38	0.655	9.62	7.89	7.87	0.632	8	8.8	8.34	0.634	2.93	7.62
10/27/2008	7:45:40	6.98	0.699	10.88	8.08	6.78	0.615	10.27	8.17	7.34	0.655	9.68	7.89	7.85	0.63	7.99	8.8	8.34	0.634	2.98	7.61
10/27/2008	8:00:40	6.95	0.699	10.95	8.08	6.73	0.615	10.35	8.16	7.31	0.654	9.65	7.89	7.84	0.63	7.98	8.81	8.33	0.634	2.8	7.61
10/27/2008	8:15:40	6.93	0.699	10.95	8.08	6.69	0.615	10.39	8.16	7.28	0.654	9.65	7.89	7.83	0.63	8	8.81	8.29	0.634	2.85	7.61
10/27/2008	8:30:40	6.88	0.7	11.01	8.08	6.65	0.615	10.44	8.16	7.24	0.654	9.73	7.89	7.81	0.63	8.01	8.86	8.31	0.634	2.77	7.61
10/27/2008	8:45:40	6.9	0.699	11.07	8.08	6.63	0.616	10.48	8.16	7.22	0.653	9.74	7.89	7.77	0.631	8.06	8.86	8.27	0.635	2.8	7.6
10/27/2008	9:00:40	6.9	0.699	11.14	8.09	6.6	0.616	10.49	8.16	7.21	0.653	9.8	7.89	7.79	0.629	8.06	8.84	8.28	0.635	2.68	7.6
10/27/2008	9:15:40	6.89	0.699	11.22	8.09	6.59	0.616	10.53	8.16	7.2	0.652	9.9	7.9	7.77	0.63	8.08	8.83	8.29	0.634	2.73	7.6
10/27/2008	9:30:40	6.89	0.699	11.25	8.1	6.57	0.616	10.61	8.17	7.2	0.652	9.92	7.9	7.78	0.63	8.12	8.82	8.29	0.634	2.67	7.6
10/27/2008	9:45:40	6.9	0.699	11.29	8.1	6.56	0.616	10.67	8.17	7.19	0.651	9.97	7.91	7.78	0.63	8.15	8.82	8.31	0.634	2.68	7.6

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/27/2008	10:00:40	6.89	0.699	11.22	8.1	6.55	0.616	10.78	8.18	7.19	0.651	10.06	7.91	7.77	0.63	8.18	8.81	8.27	0.635	2.67	7.6
10/27/2008	10:15:40	6.91	0.698	11.51	8.11	6.54	0.616	10.9	8.18	7.19	0.65	10.2	7.92	7.79	0.629	8.18	8.82	8.3	0.634	2.66	7.6
10/27/2008	10:30:40	6.9	0.698	11.56	8.12	6.54	0.616	11.07	8.19	7.18	0.65	10.3	7.93	7.77	0.631	8.24	8.81	8.25	0.636	2.66	7.6
10/27/2008	10:45:40	6.91	0.698	11.59	8.12	6.54	0.616	11.2	8.2	7.19	0.649	10.41	7.93	7.81	0.63	8.23	8.82	8.21	0.636	2.71	7.6
10/27/2008	11:00:40	7.01	0.697	11.74	8.13	6.58	0.617	11.3	8.21	7.22	0.649	10.53	7.94	7.81	0.629	8.35	8.82	8.16	0.636	2.67	7.6
10/27/2008	11:15:40	7.07	0.696	12.12	8.15	6.61	0.616	11.53	8.23	7.26	0.648	10.65	7.95	7.86	0.629	8.39	8.82	8.15	0.636	2.59	7.6
10/27/2008	11:30:40	7.08	0.695	12.14	8.15	6.67	0.617	11.64	8.25	7.29	0.648	10.76	7.96	7.87	0.629	8.49	8.82	8.14	0.636	2.69	7.61
10/27/2008	11:45:40	7.06	0.695	12.27	8.17	6.71	0.617	13.38	8.26	7.32	0.647	10.9	7.97	7.91	0.628	8.48	8.83	8.13	0.637	2.69	7.61
10/27/2008	12:00:40	7.17	0.693	12.34	8.18	6.74	0.617	11.86	8.28	7.36	0.647	10.96	7.98	7.94	0.628	8.6	8.82	8.11	0.637	2.6	7.61
10/27/2008	12:15:40	7.18	0.694	12.58	8.2	6.79	0.617	12.04	8.29	7.4	0.647	10.96	7.99	7.97	0.627	8.62	8.83	8.11	0.636	2.66	7.61
10/27/2008	12:30:40	7.28	0.692	12.75	8.22	6.84	0.617	12.1	8.31	7.43	0.646	11.05	7.99	8	0.625	8.74	8.84	8.11	0.637	2.59	7.6
10/27/2008	12:45:40	7.34	0.692	13.08	8.24	6.92	0.617	12.31	8.33	7.49	0.646	11.13	8	8.05	0.625	8.81	8.84	8.13	0.637	2.52	7.6
10/27/2008	13:00:40	7.4	0.691	12.94	8.24	7.03	0.617	12.39	8.35	7.55	0.646	11.14	8.01	8.11	0.625	8.84	8.84	8.12	0.636	2.61	7.6
10/27/2008	13:15:40	7.54	0.689	13.13	8.26	7.18	0.617	12.48	8.37	7.63	0.645	11.22	8.02	8.16	0.624	8.97	8.85	8.13	0.637	2.5	7.6
10/27/2008	13:30:40	7.56	0.69	13.24	8.26	7.31	0.617	12.57	8.39	7.68	0.645	11.26	8.02	8.2	0.622	9	8.85	8.13	0.636	2.49	7.6
10/27/2008	13:45:40	7.62	0.689	13.37	8.29	7.35	0.617	12.71	8.4	7.68	0.645	11.3	8.03	8.24	0.622	9.03	8.86	8.14	0.637	2.49	7.6
10/27/2008	14:00:40	7.65	0.689	13.39	8.3	7.37	0.617	12.79	8.42	7.73	0.644	11.34	8.03	8.28	0.622	9.13	8.86	8.14	0.637	2.51	7.6
10/27/2008	14:15:40	7.68	0.688	13.45	8.3	7.38	0.618	12.85	8.43	7.73	0.644	11.34	8.04	8.33	0.621	9.12	8.86	8.15	0.637	2.6	7.6
10/27/2008	14:30:40	7.71	0.687	13.48	8.31	7.38	0.618	12.9	8.45	7.74	0.644	11.37	8.04	8.37	0.621	9.16	8.86	8.18	0.636	2.48	7.6
10/27/2008	14:45:40	7.76	0.687	13.56	8.32	7.41	0.618	12.86	8.46	7.73	0.644	11.35	8.04	8.39	0.621	9.17	8.87	8.19	0.636	2.5	7.6
10/27/2008	15:00:40	7.84	0.687	13.64	8.34	7.46	0.618	12.98	8.48	7.79	0.644	11.47	8.05	8.43	0.62	9.2	8.87	8.2	0.636	2.67	7.6
10/27/2008	15:15:40	7.84	0.687	13.7	8.34	7.55	0.618	12.98	8.48	7.8	0.643	11.53	8.05	8.47	0.619	9.25	8.87	8.22	0.636	2.5	7.6
10/27/2008	15:30:40	7.91	0.686	13.69	8.35	7.62	0.618	13.03	8.51	7.84	0.643	11.52	8.06	8.56	0.619	9.2	8.87	8.23	0.636	2.45	7.6
10/27/2008	15:45:40	7.93	0.687	13.77	8.36	7.7	0.619	13.15	8.52	7.86	0.643	11.53	8.06	8.6	0.619	9.4	8.87	8.22	0.636	2.48	7.6
10/27/2008	16:00:40	7.96	0.686	13.78	8.36	7.75	0.619	13.14	8.53	7.88	0.643	11.54	8.06	8.65	0.62	9.29	8.88	8.19	0.636	2.46	7.6
10/27/2008	16:15:40	7.87	0.684	13.66	8.36	7.75	0.619	13.06	8.54	7.82	0.643	11.46	8.06	8.59	0.619	9.34	8.87	8.18	0.636	2.5	7.6
10/27/2008	16:30:40	7.84	0.681	13.42	8.35	7.69	0.619	13	8.54	7.74	0.641	11.36	8.05	8.55	0.619	9.16	8.88	8.16	0.635	2.49	7.6
10/27/2008	16:45:40	7.8	0.68	13.33	8.35	7.63	0.617	12.86	8.53	7.65	0.636	11.28	8.05	8.53	0.619	9.18	8.87	8.15	0.635	2.39	7.6
10/27/2008	17:00:40	7.76	0.676	13.27	8.33	7.57	0.615	12.66	8.54	7.6	0.634	11.26	8.04	8.5	0.617	9.16	8.92	8.14	0.635	2.35	7.59
10/27/2008	17:15:40	7.72	0.676	13.09	8.32	7.55	0.614	12.61	8.53	7.54	0.63	11.21	8.03	8.51	0.616	9.14	8.9	8.12	0.635	2.33	7.59
10/27/2008	17:30:40	7.7	0.676	13	8.32	7.56	0.613	12.54	8.53	7.52	0.628	11.1	8.02	8.47	0.616	9.09	8.89	8.12	0.635	2.42	7.59
10/27/2008	17:45:40	7.61	0.674	12.84	8.3	7.58	0.614	12.44	8.53	7.49	0.624	11.11	8.02	8.47	0.615	9	8.89	8.09	0.635	2.35	7.59
10/27/2008	18:00:40	7.56	0.674	12.74	8.29	7.57	0.612	12.29	8.52	7.48	0.625	11.11	8.02	8.43	0.614	9.03	8.87	8.06	0.635	2.49	7.59
10/27/2008	18:15:40	7.51	0.674	12.6	8.28	7.56	0.611	12.16	8.51	7.48	0.625	11.08	8.01	8.41	0.613	9	8.86	7.98	0.634	2.35	7.6
10/27/2008	18:30:40	7.48	0.693	12.54	8.26	7.54	0.61	12.01	8.5	7.47	0.625	11.06	8.01	8.42	0.614	8.9	8.92	7.93	0.633	2.33	7.6
10/27/2008	18:45:40	7.46	0.719	12.42	8.25	7.52	0.608	11.82	8.49	7.48	0.626	11.04	8.02	8.4	0.614	8.84	8.92	7.9	0.631	2.43	7.61
10/27/2008	19:00:40	7.44	0.731	12.36	8.24	7.49	0.607	11.77	8.49	7.47	0.627	10.97	8.02	8.39	0.614	8.76	8.91	7.82	0.629	2.37	7.6
10/27/2008	19:15:40	7.44	0.733	12.3	8.23	7.46	0.607	11.69	8.48	7.48	0.628	11.02	8.02	8.33	0.614	8.7	8.9	7.81	0.628	2.54	7.61
10/27/2008	19:30:40	7.44	0.733	12.23	8.22	7.43	0.606	11.48	8.47	7.47	0.629	11	8.02	8.29	0.613	8.78	8.88	7.74	0.628	2.47	7.61
10/27/2008	19:45:40	7.44	0.73	12.19	8.22	7.4	0.606	11.45	8.46	7.49	0.63	10.98	8.03	8.26	0.612	8.72	8.89	7.73	0.628	2.33	7.61
10/27/2008	20:00:40	7.45	0.74	12.17	8.21	7.38	0.605	11.31	8.46	7.49	0.63	11.03	8.03	8.25	0.612	8.72	8.87	7.72	0.627	2.43	7.61
10/27/2008	20:15:40	7.44	0.761	12.12	8.21	7.36	0.606	11.22	8.45	7.51	0.63	11.04	8.03	8.22	0.612	8.66	8.88	7.67	0.627	2.56	7.62
10/27/2008	20:30:40	7.42	0.777	12.08	8.2	7.34	0.606	11.14	8.44	7.49	0.629	10.95	8.03	8.2	0.612	8.65	8.88	7.68	0.627	2.32	7.62
10/27/2008	20:45:40	7.42	0.799	12.02	8.19	7.32	0.606	11.14	8.43	7.48	0.628	10.93	8.03	8.16	0.612	8.68	8.87	7.64	0.627	2.35	7.62
10/27/2008	21:00:40	7.45	0.818	11.96	8.18	7.3	0.605	11.03	8.43	7.48	0.627	10.88	8.03	8.17	0.611	8.59	8.87	7.61	0.627	2.39	7.62
10/27/2008	21:15:40	7.45	0.827	11.94	8.17	7.29	0.605	11.03	8.42	7.47	0.626	10.91	8.02	8.16	0.612	8.57	8.86	7.58	0.625	2.39	7.64
10/27/2008	21:30:40	7.44	0.837	11.91	8.16	7.28	0.604	10.99	8.42	7.47	0.628	10.82	8.02	8.13	0.614	8.53	8.86	7.63	0.624	2.47	7.64
10/27/2008	21:45:40	7.41	0.845	11.84	8.15	7.26	0.603	10.89	8.42	7.47	0.63	10.74	8.01	8.12	0.614	8.46	8.91	7.58	0.625	2.41	7.64
10/27/2008	22:00:40	7.39	0.866	11.84	8.13	7.26	0.601	10.84	8.42	7.48	0.634	10.66	8	8.1	0.615	8.4	8.91	7.56	0.625	2.56	7.64
10/27/2008	22:15:40	7.37	0.876	11.76	8.12	7.24	0.6	10.79	8.42	7.48	0.636	10.58	7.99	8.07	0.616	8.4	8.92	7.57	0.624	2.48	7.64
10/27/2008	22:30:40	7.38	0.898	11.71	8.11	7.22	0.599	10.75	8.42	7.48	0.639	10.57	7.98	8.1	0.616	8.31	8.93	7.56	0.624	2.34	7.64
10/27/2008	22:45:40	7.36	0.906	11.71	8.1	7.21	0.598	10.72	8.42	7.48	0.641	10.5	7.97	8.07	0.62	8.28	8.92	7.54	0.624	2.44	7.65

EX. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/27/2008	23:00:40	7.35	0.921	11.66	8.09	7.19	0.597	10.68	8.42	7.47	0.642	10.37	7.96	8.08	0.622	8.26	8.91	7.55	0.624	2.53	7.65
10/27/2008	23:15:40	7.34	0.921	11.63	8.09	7.18	0.596	10.65	8.41	7.47	0.644	10.35	7.95	8.06	0.624	8.26	8.9	7.56	0.625	2.31	7.64
10/27/2008	23:30:40	7.31	0.919	11.64	8.08	7.16	0.596	10.69	8.4	7.46	0.644	10.29	7.94	8.02	0.624	8.21	8.9	7.54	0.625	2.4	7.64
10/27/2008	23:45:40	7.27	0.916	11.62	8.08	7.14	0.595	10.63	8.4	7.47	0.644	10.22	7.93	8	0.623	8.15	8.9	7.54	0.624	2.33	7.64
10/28/2008	0:00:40	7.28	0.911	11.61	8.07	7.13	0.594	10.66	8.39	7.48	0.643	10.15	7.92	7.99	0.622	8.15	8.89	7.52	0.624	2.33	7.65
10/28/2008	0:15:40	7.25	0.907	11.56	8.07	7.12	0.594	10.65	8.37	7.48	0.642	10.03	7.92	7.95	0.623	8.15	8.89	7.52	0.624	2.5	7.65
10/28/2008	0:30:40	7.22	0.902	11.55	8.07	7.1	0.593	10.57	8.36	7.47	0.641	10	7.91	7.91	0.622	8.11	8.89	7.51	0.623	2.45	7.66
10/28/2008	0:45:40	7.21	0.897	11.56	8.07	7.07	0.592	10.6	8.35	7.47	0.64	9.9	7.9	7.9	0.622	8.08	8.88	7.53	0.623	2.36	7.66
10/28/2008	1:00:40	7.17	0.897	11.48	8.06	7.04	0.591	10.54	8.33	7.46	0.638	9.91	7.9	7.88	0.622	8.06	8.88	7.53	0.623	2.33	7.66
10/28/2008	1:15:40	7.15	0.89	11.49	8.06	7.02	0.591	10.57	8.32	7.46	0.636	9.82	7.89	7.85	0.623	8.04	8.88	7.52	0.623	2.33	7.66
10/28/2008	1:30:40	7.14	0.883	11.47	8.06	6.99	0.59	10.51	8.3	7.45	0.635	9.82	7.89	7.83	0.623	8.05	8.87	7.52	0.623	2.5	7.66
10/28/2008	1:45:40	7.11	0.879	11.47	8.06	6.98	0.589	10.49	8.29	7.45	0.634	9.82	7.88	7.78	0.623	8.07	8.87	7.51	0.623	2.36	7.66
10/28/2008	2:00:40	7.09	0.871	11.45	8.06	6.95	0.588	10.47	8.27	7.44	0.634	9.81	7.88	7.79	0.623	8.05	8.87	7.51	0.622	2.33	7.66
10/28/2008	2:15:40	7.06	0.865	11.47	8.06	6.92	0.588	10.47	8.26	7.43	0.634	9.81	7.88	7.74	0.624	8.03	8.87	7.53	0.623	2.39	7.66
10/28/2008	2:30:40	7.04	0.863	11.48	8.07	6.9	0.587	10.53	8.25	7.43	0.634	9.75	7.88	7.75	0.624	8.01	8.87	7.52	0.623	2.31	7.66
10/28/2008	2:45:40	7.02	0.858	11.48	8.07	6.87	0.587	10.54	8.24	7.42	0.635	9.76	7.87	7.71	0.626	8.02	8.87	7.5	0.623	2.4	7.66
10/28/2008	3:00:40	6.98	0.853	11.48	8.07	6.85	0.587	10.54	8.23	7.42	0.635	9.71	7.87	7.7	0.627	7.99	8.86	7.5	0.622	2.4	7.66
10/28/2008	3:15:40	6.98	0.85	11.43	8.07	6.82	0.587	10.48	8.22	7.4	0.636	9.7	7.87	7.66	0.628	8.02	8.86	7.51	0.621	2.26	7.66
10/28/2008	3:30:40	6.94	0.844	11.47	8.07	6.79	0.586	10.53	8.21	7.39	0.637	9.68	7.87	7.65	0.628	8.02	8.86	7.49	0.621	2.46	7.67
10/28/2008	3:45:40	6.93	0.841	11.44	8.07	6.77	0.587	10.47	8.2	7.37	0.638	9.74	7.87	7.61	0.628	8.01	8.87	7.51	0.621	2.36	7.67
10/28/2008	4:00:40	6.9	0.836	11.44	8.07	6.73	0.587	10.46	8.19	7.35	0.639	9.75	7.87	7.57	0.628	8.04	8.86	7.52	0.62	2.32	7.66
10/28/2008	4:15:40	6.87	0.833	11.49	8.07	6.71	0.587	10.46	8.19	7.32	0.64	9.72	7.87	7.55	0.628	8.03	8.87	7.51	0.62	2.2	7.66
10/28/2008	4:30:40	6.85	0.83	11.46	8.08	6.69	0.588	10.51	8.18	7.3	0.641	9.76	7.87	7.54	0.627	8.04	8.86	7.49	0.619	2.24	7.66
10/28/2008	4:45:40	6.81	0.824	11.5	8.08	6.66	0.589	10.53	8.17	7.28	0.642	9.78	7.87	7.52	0.629	8.01	8.87	7.49	0.618	2.42	7.67
10/28/2008	5:00:40	6.79	0.821	11.49	8.08	6.63	0.589	10.48	8.17	7.25	0.643	9.73	7.87	7.48	0.628	8.01	8.87	7.49	0.619	2.19	7.67
10/28/2008	5:15:40	6.76	0.816	11.51	8.08	6.61	0.59	10.54	8.17	7.23	0.645	9.78	7.87	7.46	0.629	8.06	8.86	7.49	0.618	2.2	7.66
10/28/2008	5:30:40	6.72	0.814	11.55	8.08	6.58	0.591	10.55	8.16	7.2	0.646	9.76	7.87	7.44	0.628	8.07	8.87	7.5	0.618	2.29	7.66
10/28/2008	5:45:40	6.72	0.811	11.54	8.08	6.55	0.591	10.5	8.16	7.18	0.647	9.8	7.86	7.41	0.628	8.08	8.88	7.5	0.617	2.29	7.66
10/28/2008	6:00:40	6.7	0.806	11.5	8.08	6.53	0.592	10.6	8.16	7.15	0.648	9.77	7.86	7.38	0.624	8.17	8.87	7.51	0.618	2.36	7.66
10/28/2008	6:15:40	6.66	0.802	11.55	8.08	6.51	0.593	10.55	8.15	7.13	0.649	9.79	7.87	7.34	0.623	8.24	8.88	7.51	0.617	2.24	7.65
10/28/2008	6:30:40	6.65	0.797	11.54	8.08	6.49	0.594	10.6	8.15	7.1	0.65	9.86	7.87	7.3	0.621	8.26	8.88	7.52	0.618	2.21	7.66
10/28/2008	6:45:40	6.63	0.796	11.57	8.08	6.47	0.595	10.52	8.15	7.08	0.651	9.85	7.87	7.25	0.617	8.33	8.89	7.51	0.618	2.09	7.66
10/28/2008	7:00:40	6.61	0.789	11.59	8.08	6.45	0.596	10.57	8.15	7.06	0.652	9.85	7.87	7.23	0.615	8.41	8.9	7.47	0.62	2.08	7.67
10/28/2008	7:15:40	6.6	0.787	11.57	8.08	6.43	0.597	10.58	8.15	7.03	0.652	9.88	7.87	7.22	0.615	8.41	8.9	7.46	0.62	2.07	7.67
10/28/2008	7:30:40	6.57	0.781	11.59	8.08	6.41	0.598	10.51	8.15	7.01	0.653	9.96	7.88	7.22	0.614	8.44	8.9	7.46	0.621	2.02	7.67
10/28/2008	7:45:40	6.56	0.776	11.63	8.08	6.39	0.598	10.51	8.15	6.99	0.653	10.01	7.88	7.21	0.613	8.47	8.9	7.41	0.622	2.16	7.67
10/28/2008	8:00:40	6.55	0.778	11.59	8.08	6.37	0.6	10.58	8.15	6.97	0.654	9.98	7.88	7.21	0.613	8.51	8.9	7.37	0.622	2.15	7.67
10/28/2008	8:15:40	6.54	0.776	11.61	8.08	6.35	0.601	10.61	8.14	6.96	0.654	9.99	7.88	7.21	0.612	8.5	8.9	7.38	0.623	2.12	7.66
10/28/2008	8:30:40	6.53	0.765	11.68	8.08	6.33	0.602	10.55	8.14	6.94	0.654	10.01	7.88	7.23	0.615	8.51	8.89	7.34	0.623	1.99	7.66
10/28/2008	8:45:40	6.51	0.766	11.66	8.08	6.32	0.603	10.57	8.15	6.93	0.654	10.11	7.89	7.24	0.615	8.46	8.9	7.31	0.623	2.15	7.65
10/28/2008	9:00:40	6.5	0.762	11.68	8.09	6.31	0.604	10.65	8.15	6.9	0.654	10.11	7.89	7.24	0.615	8.46	8.9	7.27	0.624	1.96	7.65
10/28/2008	9:15:40	6.48	0.759	11.79	8.09	6.3	0.605	10.91	8.15	6.9	0.654	10.14	7.89	7.25	0.617	8.44	8.91	7.27	0.624	2.13	7.65
10/28/2008	9:30:40	6.48	0.758	11.79	8.09	6.29	0.606	10.74	8.15	6.89	0.655	10.18	7.89	7.25	0.613	8.45	8.91	7.25	0.624	1.94	7.65
10/28/2008	9:45:40	6.5	0.754	11.89	8.09	6.29	0.607	10.8	8.15	6.9	0.655	10.3	7.9	7.25	0.613	8.49	8.9	7.24	0.625	1.9	7.65
10/28/2008	10:00:40	6.48	0.749	12.03	8.1	6.29	0.608	10.87	8.16	6.91	0.655	10.4	7.91	7.26	0.612	8.53	8.9	7.23	0.625	2.09	7.64
10/28/2008	10:15:40	6.48	0.75	11.96	8.1	6.3	0.609	10.88	8.17	6.92	0.655	10.4	7.91	7.26	0.611	8.53	8.91	7.21	0.625	2.02	7.64
10/28/2008	10:30:40	6.51	0.744	12.13	8.11	6.3	0.61	10.97	8.17	6.92	0.655	10.49	7.91	7.25	0.611	8.55	8.91	7.18	0.625	1.84	7.64
10/28/2008	10:45:40	6.49	0.744	12.15	8.12	6.31	0.611	11.06	8.18	6.93	0.656	10.51	7.92	7.26	0.609	8.56	8.92	7.16	0.625	1.85	7.64
10/28/2008	11:00:40	6.49	0.74	12.31	8.13	6.33	0.611	11.08	8.19	6.94	0.655	10.63	7.93	7.27	0.609	8.62	8.91	7.12	0.626	1.85	7.64
10/28/2008	11:15:40	6.54	0.738	12.39	8.13	6.34	0.611	11.2	8.19	6.96	0.655	10.74	7.94	7.28	0.612	8.63	8.92	7.11	0.625	1.81	7.64
10/28/2008	11:30:40	6.54	0.736	12.53	8.14	6.38	0.611	11.24	8.2	6.98	0.655	10.84	7.94	7.28	0.61	8.65	8.92	7.1	0.626	2.06	7.64
10/28/2008	11:45:40	6.59	0.733	12.59	8.15	6.42	0.611	11.33	8.22	7.01	0.654	10.94	7.95	7.31	0.61	8.71	8.92	7.07	0.626	1.97	7.65

EX! E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/28/2008	12:00:40	6.62	0.732	12.73	8.16	6.46	0.611	11.41	8.23	7.04	0.654	11.02	7.96	7.33	0.612	8.74	8.93	7.08	0.626	1.96	7.65
10/28/2008	12:15:40	6.67	0.729	12.94	8.18	6.54	0.611	11.52	8.25	7.09	0.654	11.06	7.97	7.35	0.612	8.75	8.93	7.07	0.626	1.81	7.64
10/28/2008	12:30:40	6.76	0.727	13.05	8.2	6.59	0.611	11.69	8.27	7.11	0.653	11.1	7.98	7.36	0.612	8.73	8.94	7.05	0.626	1.93	7.65
10/28/2008	12:45:40	6.78	0.725	13.25	8.21	6.65	0.61	11.74	8.29	7.14	0.653	11.22	7.99	7.37	0.613	8.72	8.94	7.07	0.626	1.84	7.65
10/28/2008	13:00:40	6.87	0.722	13.33	8.23	6.76	0.611	11.84	8.31	7.2	0.653	11.25	8	7.4	0.613	8.76	8.93	7.02	0.626	1.83	7.66
10/28/2008	13:15:40	6.89	0.722	13.45	8.24	6.85	0.611	11.91	8.33	7.29	0.652	11.33	8.01	7.47	0.613	8.79	8.94	7.04	0.626	1.95	7.66
10/28/2008	13:30:40	6.96	0.719	13.56	8.26	6.91	0.611	12.07	8.35	7.33	0.652	11.44	8.01	7.47	0.613	8.8	8.94	7.03	0.626	1.83	7.66
10/28/2008	13:45:40	6.94	0.719	13.58	8.27	6.99	0.612	12.08	8.37	7.34	0.652	11.43	8.02	7.46	0.613	8.83	8.94	7.06	0.626	1.96	7.67
10/28/2008	14:00:40	6.97	0.715	13.57	8.28	6.99	0.613	12.17	8.39	7.32	0.652	11.5	8.02	7.46	0.614	8.82	8.96	7.07	0.626	1.88	7.67
10/28/2008	14:15:40	6.96	0.715	13.6	8.29	7.02	0.613	12.15	8.41	7.32	0.653	11.48	8.03	7.48	0.613	8.86	8.96	7.08	0.626	1.85	7.67
10/28/2008	14:30:40	6.93	0.712	13.59	8.29	7.05	0.615	12.16	8.42	7.3	0.653	11.46	8.03	7.47	0.613	8.83	8.97	7.07	0.627	1.97	7.68
10/28/2008	14:45:40	6.91	0.711	13.59	8.3	7.05	0.616	12.22	8.44	7.29	0.653	11.53	8.03	7.44	0.614	8.83	8.96	7.07	0.627	1.88	7.68
10/28/2008	15:00:40	6.88	0.71	13.58	8.3	7.06	0.616	12.21	8.45	7.29	0.653	11.56	8.04	7.42	0.613	8.81	8.96	7.07	0.627	1.82	7.68
10/28/2008	15:15:40	6.86	0.709	13.53	8.3	7.07	0.617	12.2	8.46	7.28	0.654	11.48	8.04	7.39	0.612	8.78	8.97	7.06	0.628	1.96	7.69
10/28/2008	15:30:40	6.82	0.708	13.53	8.3	7.06	0.619	12.11	8.47	7.27	0.654	11.43	8.04	7.35	0.611	8.75	8.96	7.06	0.628	1.88	7.69
10/28/2008	15:45:40	6.8	0.705	13.41	8.3	7.05	0.62	12.05	8.48	7.26	0.654	11.47	8.04	7.32	0.611	8.77	8.96	7.03	0.63	1.96	7.7
10/28/2008	16:00:40	6.79	0.704	13.34	8.29	7.04	0.621	11.91	8.48	7.26	0.653	11.41	8.04	7.29	0.611	8.72	8.96	7.03	0.631	1.98	7.7
10/28/2008	16:15:40	6.74	0.703	13.24	8.29	7.02	0.622	11.88	8.49	7.24	0.653	11.44	8.04	7.24	0.61	8.71	8.96	7.03	0.632	1.88	7.71
10/28/2008	16:30:40	6.75	0.701	13.2	8.29	7	0.622	11.76	8.49	7.23	0.653	11.4	8.04	7.21	0.611	8.68	8.97	7.03	0.633	2.07	7.71
10/28/2008	16:45:40	6.74	0.698	13.15	8.28	6.98	0.623	11.73	8.5	7.22	0.652	11.42	8.04	7.17	0.614	8.72	8.96	7.03	0.634	1.89	7.72
10/28/2008	17:00:40	6.7	0.697	13.07	8.28	6.96	0.624	11.62	8.5	7.2	0.651	11.35	8.03	7.14	0.612	8.72	8.96	7.04	0.634	1.87	7.72
10/28/2008	17:15:40	6.7	0.696	13.05	8.28	6.93	0.624	11.61	8.51	7.18	0.651	11.37	8.03	7.1	0.611	8.71	8.97	7.04	0.635	2.08	7.72
10/28/2008	17:30:40	6.68	0.694	12.99	8.28	6.91	0.625	11.55	8.51	7.16	0.65	11.28	8.03	7.07	0.613	8.69	8.97	7.03	0.635	1.88	7.73
10/28/2008	17:45:40	6.66	0.693	12.91	8.28	6.88	0.625	11.48	8.51	7.13	0.65	11.27	8.02	7.04	0.612	8.74	8.97	7.03	0.636	1.9	7.73
10/28/2008	18:00:40	6.66	0.692	12.9	8.28	6.85	0.625	11.35	8.5	7.09	0.649	11.18	8.02	7.01	0.612	8.73	8.97	7.02	0.635	1.99	7.73
10/28/2008	18:15:40	6.61	0.692	12.83	8.28	6.81	0.626	11.33	8.5	7.07	0.649	11.19	8.01	6.99	0.613	8.73	8.98	7	0.635	2.11	7.74
10/28/2008	18:30:40	6.59	0.69	12.77	8.28	6.78	0.626	11.28	8.49	7.04	0.648	11.1	8.01	6.96	0.614	8.77	8.97	7.01	0.635	1.9	7.74
10/28/2008	18:45:40	6.56	0.69	12.77	8.28	6.75	0.626	11.22	8.47	7.01	0.647	11.05	8	6.93	0.615	8.77	8.98	6.99	0.634	1.84	7.74
10/28/2008	19:00:40	6.57	0.689	12.72	8.28	6.71	0.627	11.17	8.45	6.98	0.646	11.01	8	6.92	0.614	8.77	8.98	6.98	0.634	1.83	7.74
10/28/2008	19:15:40	6.51	0.688	12.67	8.28	6.66	0.627	11.1	8.44	6.82	0.644	10.98	8	6.85	0.613	8.79	8.98	6.95	0.633	1.87	7.74
10/28/2008	19:30:40	6.5	0.687	12.62	8.28	6.54	0.627	11.09	8.42	6.58	0.64	11.04	7.99	6.74	0.611	8.83	8.98	6.91	0.632	1.82	7.75
10/28/2008	19:45:40	6.48	0.687	12.59	8.28	6.48	0.627	11.05	8.4	6.55	0.639	10.96	7.98	6.72	0.611	8.82	8.99	6.86	0.631	1.82	7.75
10/28/2008	20:00:40	6.47	0.686	12.55	8.28	6.42	0.627	11.03	8.38	6.6	0.64	10.98	7.98	6.72	0.612	8.84	8.99	6.81	0.63	2.06	7.75
10/28/2008	20:15:40	6.45	0.686	12.54	8.29	6.37	0.628	10.94	8.36	6.62	0.64	10.92	7.98	6.7	0.614	8.85	8.99	6.82	0.629	1.98	7.75
10/28/2008	20:30:40	6.43	0.685	12.54	8.29	6.33	0.628	10.91	8.35	6.61	0.641	10.87	7.97	6.69	0.611	8.89	8.99	6.79	0.628	1.87	7.75
10/28/2008	20:45:40	6.43	0.685	12.53	8.28	6.28	0.628	10.96	8.33	6.59	0.64	10.85	7.97	6.67	0.611	8.88	9	6.76	0.627	2.05	7.76
10/28/2008	21:00:40	6.4	0.684	12.51	8.28	6.25	0.628	10.96	8.32	6.57	0.64	10.89	7.96	6.66	0.611	8.9	8.99	6.7	0.625	2.07	7.77
10/28/2008	21:15:40	6.38	0.684	12.47	8.28	6.22	0.628	10.95	8.31	6.54	0.64	10.9	7.96	6.65	0.61	8.93	8.99	6.68	0.623	1.81	7.78
10/28/2008	21:30:40	6.33	0.683	12.49	8.28	6.19	0.628	10.88	8.3	6.45	0.639	10.84	7.96	6.63	0.61	8.9	9	6.65	0.623	1.79	7.78
10/28/2008	21:45:40	6.3	0.683	12.46	8.28	6.15	0.627	10.86	8.29	6.42	0.639	10.88	7.96	6.6	0.609	8.91	9	6.59	0.622	1.81	7.79
10/28/2008	22:00:40	6.27	0.683	12.48	8.27	6.12	0.627	10.91	8.28	6.4	0.639	10.83	7.95	6.59	0.608	8.91	9	6.57	0.621	1.77	7.79
10/28/2008	22:15:40	6.22	0.683	12.48	8.26	6.08	0.626	10.93	8.28	6.38	0.639	10.82	7.95	6.59	0.608	8.94	9	6.54	0.621	1.91	7.8
10/28/2008	22:30:40	6.19	0.683	12.45	8.26	6.05	0.625	10.86	8.27	6.38	0.639	10.8	7.95	6.58	0.608	8.95	9	6.52	0.62	1.93	7.8
10/28/2008	22:45:40	6.17	0.683	12.43	8.25	6.01	0.624	10.93	8.27	6.35	0.64	10.86	7.95	6.56	0.607	8.91	9	6.51	0.619	1.79	7.8
10/28/2008	23:00:40	6.14	0.684	12.46	8.24	5.98	0.623	10.93	8.26	6.33	0.64	10.81	7.95	6.55	0.606	8.95	9	6.46	0.619	1.76	7.8
10/28/2008	23:15:40	6.05	0.683	12.44	8.23	5.93	0.622	10.88	8.26	6.27	0.64	10.81	7.95	6.52	0.605	8.93	9.01	6.45	0.618	1.76	7.8
10/28/2008	23:30:40	6.02	0.684	12.43	8.23	5.88	0.62	10.86	8.25	6.22	0.64	10.78	7.94	6.49	0.605	8.93	9.01	6.39	0.617	1.86	7.8
10/28/2008	23:45:40	5.99	0.684	12.47	8.22	5.83	0.619	10.93	8.25	6.17	0.64	10.84	7.94	6.45	0.604	8.93	9.01	6.34	0.617	1.87	7.81
10/29/2008	0:00:40	5.95	0.684	12.48	8.21	5.79	0.618	10.87	8.25	6.17	0.64	10.8	7.94	6.42	0.603	8.97	9.01	6.29	0.616	1.86	7.81
10/29/2008	0:15:40	5.92	0.685	12.49	8.21	5.74	0.618	10.85	8.24	6.14	0.64	10.84	7.94	6.36	0.601	8.97	9.02	6.27	0.615	1.7	7.81
10/29/2008	0:30:40	5.89	0.685	12.46	8.2	5.71	0.617	10.93	8.24	6.12	0.64	10.85	7.94	6.35	0.601	8.96	9.02	6.25	0.615	1.8	7.81
10/29/2008	0:45:40	5.86	0.685	12.46	8.2	5.67	0.617	10.94	8.24	6.12	0.641	10.87	7.94	6.34	0.601	8.95	9.02	6.2	0.614	1.7	7.81

EX: 'E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/29/2008	1:00:40	5.84	0.685	12.47	8.19	5.64	0.616	10.96	8.24	6.12	0.641	10.89	7.94	6.32	0.6	8.97	9.02	6.13	0.613	1.79	7.81
10/29/2008	1:15:40	5.81	0.685	12.47	8.19	5.62	0.616	10.89	8.24	6.11	0.641	10.82	7.94	6.29	0.598	8.99	9.01	6.11	0.612	1.65	7.81
10/29/2008	1:30:40	5.78	0.685	12.51	8.19	5.6	0.616	10.95	8.23	6.1	0.641	10.84	7.94	6.27	0.597	8.95	9.02	6.06	0.61	1.63	7.81
10/29/2008	1:45:40	5.75	0.684	12.49	8.18	5.57	0.615	10.89	8.23	6.1	0.641	10.82	7.93	6.24	0.596	8.96	9.03	6.01	0.609	1.63	7.81
10/29/2008	2:00:40	5.72	0.684	12.51	8.18	5.56	0.615	10.95	8.23	6.08	0.641	10.83	7.93	6.21	0.595	8.98	9.02	5.97	0.607	1.63	7.81
10/29/2008	2:15:40	5.69	0.684	12.51	8.18	5.53	0.615	10.97	8.23	6.07	0.64	10.85	7.93	6.18	0.593	8.95	9.02	5.94	0.607	1.57	7.81
10/29/2008	2:30:40	5.66	0.683	12.56	8.18	5.51	0.615	10.91	8.23	6.07	0.64	10.87	7.93	6.15	0.593	8.95	9.03	5.88	0.605	1.61	7.81
10/29/2008	2:45:40	5.64	0.683	12.53	8.18	5.48	0.615	10.9	8.23	6.06	0.639	10.88	7.93	6.12	0.591	8.94	9.03	5.87	0.604	1.55	7.81
10/29/2008	3:00:40	5.61	0.684	12.59	8.18	5.46	0.615	10.9	8.23	6.05	0.639	10.96	7.93	6.08	0.592	8.95	9.03	5.84	0.603	1.58	7.81
10/29/2008	3:15:40	5.57	0.684	12.61	8.17	5.43	0.615	10.93	8.23	6.04	0.638	10.93	7.93	6.06	0.59	8.94	9.03	5.8	0.601	1.56	7.81
10/29/2008	3:30:40	5.55	0.685	12.64	8.17	5.4	0.615	10.95	8.23	6.03	0.638	10.93	7.93	6.02	0.589	8.96	9.02	5.79	0.6	1.57	7.81
10/29/2008	3:45:40	5.52	0.684	12.68	8.18	5.39	0.615	10.96	8.24	6.02	0.637	11	7.93	5.99	0.588	8.97	9.02	5.74	0.597	1.71	7.82
10/29/2008	4:00:40	5.48	0.681	12.74	8.18	5.39	0.616	11.03	8.23	6.01	0.636	11.03	7.93	5.95	0.587	8.95	9.03	5.73	0.597	1.59	7.82
10/29/2008	4:15:40	5.45	0.678	12.77	8.18	5.39	0.616	10.98	8.24	5.99	0.635	11.05	7.93	5.92	0.586	8.95	9.03	5.7	0.596	1.73	7.82
10/29/2008	4:30:40	5.42	0.675	12.79	8.18	5.4	0.617	11.04	8.23	5.99	0.635	11.02	7.93	5.89	0.585	8.95	9.04	5.68	0.596	1.83	7.82
10/29/2008	4:45:40	5.39	0.673	12.79	8.18	5.4	0.617	11.06	8.23	5.97	0.634	11.07	7.94	5.86	0.584	8.97	9.03	5.67	0.594	1.58	7.82
10/29/2008	5:00:40	5.36	0.671	12.82	8.18	5.4	0.617	11.07	8.23	5.96	0.634	11.01	7.94	5.82	0.582	8.96	9.04	5.65	0.594	1.51	7.82
10/29/2008	5:15:40	5.34	0.67	12.86	8.18	5.4	0.617	11	8.23	5.95	0.633	11.09	7.94	5.79	0.582	8.97	9.04	5.65	0.594	1.69	7.82
10/29/2008	5:30:40	5.32	0.669	12.88	8.18	5.4	0.617	10.98	8.23	5.93	0.632	11.04	7.94	5.76	0.581	9	9.03	5.62	0.593	1.58	7.82
10/29/2008	5:45:40	5.3	0.669	12.86	8.18	5.39	0.617	10.96	8.23	5.91	0.631	11.03	7.94	5.74	0.58	8.98	9.04	5.57	0.593	1.73	7.83
10/29/2008	6:00:40	5.29	0.668	12.91	8.18	5.38	0.617	10.95	8.23	5.89	0.63	11.11	7.94	5.7	0.579	8.98	9.04	5.58	0.592	1.55	7.83
10/29/2008	6:15:40	5.28	0.668	12.88	8.18	5.37	0.617	11.02	8.22	5.87	0.629	11.06	7.94	5.68	0.578	9	9.04	5.55	0.592	1.73	7.83
10/29/2008	6:30:40	5.28	0.668	12.87	8.18	5.36	0.617	10.96	8.23	5.86	0.629	11.12	7.94	5.67	0.578	9	9.05	5.52	0.592	1.81	7.83
10/29/2008	6:45:40	5.27	0.668	12.87	8.18	5.35	0.616	11.02	8.22	5.84	0.628	11.14	7.94	5.64	0.576	8.99	9.05	5.5	0.592	1.82	7.83
10/29/2008	7:00:40	5.26	0.668	12.86	8.18	5.34	0.616	10.96	8.22	5.82	0.627	11.16	7.94	5.62	0.576	8.98	9.05	5.49	0.592	1.51	7.83
10/29/2008	7:15:40	5.26	0.668	12.89	8.18	5.33	0.616	10.95	8.23	5.8	0.627	11.19	7.94	5.59	0.575	9	9.05	5.51	0.592	1.7	7.83
10/29/2008	7:30:40	5.25	0.668	12.91	8.18	5.32	0.615	11.02	8.23	5.79	0.626	11.2	7.94	5.58	0.574	9.01	9.05	5.47	0.592	1.63	7.83
10/29/2008	7:45:40	5.24	0.668	12.89	8.18	5.31	0.615	11.04	8.23	5.76	0.625	11.14	7.95	5.56	0.574	9.03	9.04	5.45	0.592	1.41	7.83
10/29/2008	8:00:40	5.24	0.667	12.92	8.18	5.3	0.614	11.04	8.23	5.74	0.624	11.11	7.95	5.53	0.573	9.03	9.05	5.44	0.591	1.57	7.83
10/29/2008	8:15:40	5.23	0.667	12.93	8.18	5.29	0.613	11.05	8.23	5.72	0.623	11.12	7.95	5.51	0.573	9.02	9.06	5.4	0.591	1.66	7.83
10/29/2008	8:30:40	5.22	0.667	12.91	8.18	5.27	0.613	11.06	8.23	5.7	0.623	11.2	7.95	5.5	0.572	9.03	9.06	5.36	0.591	1.41	7.83
10/29/2008	8:45:40	5.22	0.666	12.96	8.18	5.27	0.612	11.07	8.23	5.69	0.621	11.23	7.95	5.48	0.572	9.02	9.06	5.36	0.591	1.38	7.83
10/29/2008	9:00:40	5.21	0.666	12.95	8.18	5.26	0.612	11.01	8.23	5.66	0.621	11.26	7.95	5.47	0.572	9.02	9.06	5.35	0.591	1.52	7.83
10/29/2008	9:15:40	5.2	0.665	12.98	8.18	5.25	0.611	11.07	8.23	5.65	0.62	11.3	7.95	5.46	0.572	9.03	9.06	5.31	0.59	1.38	7.83
10/29/2008	9:30:40	5.2	0.665	13.01	8.18	5.24	0.61	11.09	8.23	5.62	0.619	11.31	7.95	5.44	0.572	9.02	9.06	5.3	0.59	1.35	7.83
10/29/2008	9:45:40	5.21	0.664	13.02	8.19	5.24	0.609	11.11	8.23	5.61	0.618	11.28	7.96	5.43	0.572	9.04	9.06	5.32	0.59	1.5	7.83
10/29/2008	10:00:40	5.16	0.663	13.07	8.19	5.24	0.609	11.08	8.24	5.6	0.617	11.29	7.96	5.42	0.572	9.08	9.06	5.3	0.59	1.52	7.83
10/29/2008	10:15:40	5.12	0.662	13.07	8.2	5.21	0.608	11.14	8.24	5.53	0.616	11.35	7.96	5.38	0.571	9.07	9.06	5.25	0.59	1.35	7.83
10/29/2008	10:30:40	5.13	0.661	13.15	8.2	5.14	0.606	11.16	8.25	5.31	0.614	11.31	7.96	5.1	0.569	9.02	9.07	5.13	0.589	1.29	7.83
10/29/2008	10:45:40	5.16	0.661	13.2	8.2	5.15	0.606	11.19	8.25	5.33	0.613	11.34	7.97	5.08	0.569	9.05	9.07	5.09	0.589	1.28	7.83
10/29/2008	11:00:40	5.18	0.66	13.25	8.2	5.16	0.604	11.16	8.26	5.37	0.613	11.44	7.97	5.09	0.57	9.03	9.07	5.03	0.587	1.54	7.83
10/29/2008	11:15:40	5.2	0.659	13.29	8.21	5.18	0.604	11.27	8.26	5.4	0.613	11.45	7.97	5.08	0.57	9.05	9.08	5.06	0.588	1.48	7.83
10/29/2008	11:30:40	5.22	0.658	13.38	8.22	5.19	0.603	11.26	8.27	5.4	0.612	11.54	7.98	5.09	0.57	9.11	9.07	5.03	0.587	1.29	7.83
10/29/2008	11:45:40	5.24	0.657	13.45	8.24	5.21	0.602	11.38	8.28	5.4	0.611	11.55	7.98	5.11	0.57	9.11	9.07	5.06	0.587	1.5	7.83
10/29/2008	12:00:40	5.23	0.657	13.51	8.24	5.24	0.601	11.45	8.29	5.4	0.611	11.57	7.99	5.12	0.57	9.12	9.08	5.03	0.587	1.46	7.83
10/29/2008	12:15:40	5.23	0.656	13.52	8.25	5.25	0.6	11.47	8.3	5.38	0.61	11.58	7.99	5.12	0.57	9.12	9.08	5.02	0.587	1.26	7.83
10/29/2008	12:30:40	5.24	0.655	13.59	8.26	5.26	0.599	11.5	8.31	5.36	0.609	11.69	8	5.13	0.57	9.17	9.07	5	0.587	1.18	7.83
10/29/2008	12:45:40	5.25	0.655	13.63	8.26	5.27	0.598	11.48	8.32	5.37	0.609	11.71	8	5.15	0.569	9.18	9.07	5	0.587	1.38	7.83
10/29/2008	13:00:40	5.24	0.655	13.59	8.26	5.27	0.597	11.54	8.33	5.33	0.608	11.78	8.01	5.13	0.569	9.17	9.08	5	0.587	1.19	7.82
10/29/2008	13:15:40	5.27	0.654	13.68	8.27	5.27	0.596	11.48	8.33	5.31	0.607	11.81	8.01	5.13	0.569	9.19	9.07	5	0.586	1.44	7.82
10/29/2008	13:30:40	5.27	0.653	13.72	8.27	5.29	0.595	11.5	8.34	5.34	0.607	11.81	8.01	5.14	0.569	9.18	9.08	4.96	0.585	1.2	7.82
10/29/2008	13:45:40	5.3	0.652	13.76	8.28	5.29	0.594	11.58	8.35	5.36	0.606	11.92	8.02	5.14	0.569	9.21	9.07	4.95	0.585	1.39	7.83

EXH. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/29/2008	14:00:40	5.3	0.651	13.79	8.29	5.32	0.593	11.58	8.36	5.38	0.606	11.96	8.02	5.15	0.569	9.2	9.08	4.94	0.584	1.22	7.83
10/29/2008	14:15:40	5.3	0.651	13.77	8.29	5.32	0.592	11.63	8.37	5.37	0.606	11.87	8.02	5.14	0.569	9.23	9.07	4.96	0.584	1.44	7.83
10/29/2008	14:30:40	5.32	0.65	13.78	8.3	5.32	0.591	11.56	8.38	5.38	0.606	11.86	8.03	5.13	0.569	9.25	9.07	4.93	0.585	1.17	7.83
10/29/2008	14:45:40	5.31	0.649	13.78	8.3	5.34	0.591	11.57	8.38	5.4	0.605	11.97	8.03	5.15	0.568	9.25	9.07	4.92	0.584	1.18	7.84
10/29/2008	15:00:40	5.31	0.648	13.76	8.3	5.34	0.59	11.52	8.39	5.39	0.605	11.97	8.03	5.13	0.568	9.22	9.08	4.93	0.584	1.42	7.83
10/29/2008	15:15:40	5.32	0.647	13.73	8.31	5.34	0.59	11.57	8.39	5.39	0.605	11.88	8.03	5.11	0.568	9.2	9.08	4.92	0.585	1.39	7.84
10/29/2008	15:30:40	5.32	0.646	13.73	8.31	5.34	0.589	11.5	8.39	5.39	0.604	11.94	8.03	5.11	0.568	9.2	9.08	4.92	0.585	1.16	7.84
10/29/2008	15:45:40	5.35	0.645	13.8	8.31	5.34	0.589	11.45	8.39	5.38	0.604	11.88	8.03	5.1	0.568	9.22	9.08	4.93	0.585	1.12	7.84
10/29/2008	16:00:40	5.36	0.645	13.86	8.32	5.37	0.588	11.55	8.4	5.4	0.603	11.92	8.04	5.1	0.568	9.24	9.08	4.94	0.585	1.16	7.83
10/29/2008	16:15:40	5.37	0.644	13.91	8.33	5.38	0.587	11.52	8.4	5.4	0.603	11.95	8.04	5.1	0.568	9.24	9.08	4.95	0.584	1.4	7.84
10/29/2008	16:30:40	5.38	0.643	13.88	8.34	5.38	0.586	11.6	8.41	5.4	0.603	12.02	8.04	5.1	0.568	9.26	9.08	4.95	0.584	1.19	7.84
10/29/2008	16:45:40	5.39	0.642	13.91	8.34	5.4	0.586	11.63	8.41	5.4	0.602	11.98	8.04	5.1	0.568	9.28	9.08	4.96	0.584	1.18	7.84
10/29/2008	17:00:40	5.4	0.642	13.89	8.34	5.4	0.585	11.56	8.42	5.4	0.602	12.04	8.04	5.1	0.568	9.3	9.08	4.94	0.585	1.14	7.85
10/29/2008	17:15:40	5.38	0.641	13.87	8.34	5.41	0.585	11.53	8.42	5.39	0.601	11.98	8.04	5.09	0.568	9.28	9.09	4.96	0.584	1.34	7.85
10/29/2008	17:30:40	5.38	0.641	13.81	8.34	5.39	0.584	11.57	8.42	5.37	0.601	11.96	8.04	5.08	0.568	9.3	9.08	4.96	0.585	1.19	7.85
10/29/2008	17:45:40	5.37	0.64	13.75	8.34	5.38	0.584	11.45	8.41	5.36	0.601	11.98	8.04	5.07	0.568	9.26	9.09	4.95	0.585	1.17	7.85
10/29/2008	18:00:40	5.35	0.64	13.7	8.33	5.37	0.584	11.39	8.41	5.35	0.6	11.9	8.04	5.07	0.568	9.27	9.08	4.96	0.585	1.39	7.85
10/29/2008	18:15:40	5.34	0.639	13.59	8.33	5.34	0.584	11.33	8.4	5.34	0.6	11.93	8.04	5.06	0.568	9.23	9.09	4.95	0.585	1.37	7.86
10/29/2008	18:30:40	5.33	0.638	13.53	8.33	5.32	0.583	11.35	8.4	5.32	0.6	11.93	8.03	5.05	0.568	9.25	9.08	4.94	0.585	1.18	7.86
10/29/2008	18:45:40	5.33	0.638	13.54	8.32	5.3	0.583	11.33	8.39	5.3	0.6	11.91	8.03	5.04	0.568	9.21	9.08	4.95	0.585	1.32	7.86
10/29/2008	19:00:40	5.33	0.637	13.47	8.32	5.29	0.583	11.23	8.38	5.3	0.6	11.82	8.03	5.04	0.568	9.19	9.08	4.95	0.585	1.13	7.86
10/29/2008	19:15:40	5.32	0.636	13.43	8.32	5.29	0.583	11.17	8.38	5.3	0.6	11.78	8.02	5.04	0.568	9.21	9.07	4.95	0.585	1.3	7.86
10/29/2008	19:30:40	5.31	0.636	13.44	8.31	5.27	0.582	11.21	8.37	5.28	0.6	11.83	8.02	5.03	0.568	9.18	9.08	4.95	0.585	1.14	7.86
10/29/2008	19:45:40	5.3	0.636	13.38	8.31	5.26	0.582	11.12	8.37	5.27	0.599	11.81	8.02	5.03	0.568	9.19	9.07	4.94	0.585	1.36	7.86
10/29/2008	20:00:40	5.29	0.635	13.34	8.3	5.25	0.582	11.15	8.36	5.26	0.6	11.82	8.01	5.02	0.569	9.2	9.08	4.95	0.586	1.1	7.86
10/29/2008	20:15:40	5.27	0.635	13.36	8.3	5.24	0.582	11.14	8.35	5.25	0.6	11.72	8.01	5.01	0.569	9.18	9.08	4.95	0.585	1.35	7.86
10/29/2008	20:30:40	5.25	0.634	13.34	8.29	5.22	0.582	11.05	8.34	5.24	0.6	11.74	8.01	5.01	0.569	9.21	9.07	4.94	0.586	1.38	7.86
10/29/2008	20:45:40	5.22	0.634	13.33	8.29	5.2	0.581	11.08	8.33	5.22	0.6	11.67	8.01	5.01	0.569	9.21	9.07	4.94	0.586	1.38	7.86
10/29/2008	21:00:40	5.21	0.633	13.29	8.29	5.17	0.581	11.07	8.32	5.2	0.599	11.71	8	5	0.569	9.21	9.08	4.95	0.586	1.07	7.86
10/29/2008	21:15:40	5.18	0.633	13.26	8.28	5.14	0.581	11	8.31	5.17	0.599	11.65	8	4.99	0.569	9.22	9.08	4.98	0.586	1.02	7.85
10/29/2008	21:30:40	5.15	0.633	13.25	8.28	5.11	0.581	11.04	8.3	5.14	0.599	11.7	8	4.98	0.569	9.24	9.07	4.97	0.587	1.3	7.85
10/29/2008	21:45:40	5.14	0.632	13.24	8.28	5.08	0.58	10.97	8.3	5.12	0.599	11.71	7.99	4.97	0.569	9.21	9.08	4.95	0.587	1.34	7.85
10/29/2008	22:00:40	5.12	0.632	13.23	8.27	5.06	0.58	11.02	8.29	5.11	0.599	11.63	7.99	4.95	0.569	9.2	9.08	4.94	0.587	1.07	7.85
10/29/2008	22:15:40	5.1	0.631	13.26	8.27	5.04	0.58	10.96	8.28	5.11	0.599	11.6	7.99	4.95	0.569	9.19	9.08	4.95	0.588	1.04	7.85
10/29/2008	22:30:40	5.08	0.631	13.24	8.27	5.02	0.58	10.93	8.28	5.09	0.599	11.67	7.99	4.94	0.569	9.23	9.08	4.94	0.589	1.28	7.84
10/29/2008	22:45:40	5.06	0.631	13.26	8.26	5	0.58	10.92	8.28	5.07	0.6	11.69	7.99	4.93	0.569	9.23	9.08	4.94	0.588	1.06	7.85
10/29/2008	23:00:40	5.04	0.631	13.24	8.25	4.97	0.58	10.92	8.27	5.05	0.6	11.63	7.99	4.92	0.569	9.19	9.08	4.93	0.588	1.28	7.85
10/29/2008	23:15:40	5.02	0.631	13.21	8.25	4.96	0.579	10.94	8.27	5.04	0.6	11.61	7.99	4.92	0.569	9.21	9.07	4.93	0.589	1.3	7.85
10/29/2008	23:30:40	4.99	0.63	13.22	8.25	4.93	0.579	10.91	8.27	5.03	0.6	11.61	7.99	4.9	0.57	9.18	9.09	4.92	0.59	1.24	7.84
10/29/2008	23:45:40	4.97	0.63	13.26	8.24	4.91	0.579	10.91	8.27	5.01	0.6	11.66	7.98	4.9	0.57	9.2	9.08	4.89	0.59	1.03	7.85
10/30/2008	0:00:40	4.94	0.63	13.23	8.24	4.88	0.579	10.98	8.26	4.99	0.6	11.63	7.98	4.89	0.57	9.18	9.08	4.87	0.591	0.99	7.85
10/30/2008	0:15:40	4.91	0.629	13.26	8.23	4.85	0.579	10.93	8.26	4.98	0.6	11.7	7.98	4.88	0.571	9.19	9.08	4.86	0.591	0.98	7.85
10/30/2008	0:30:40	4.89	0.629	13.24	8.23	4.82	0.579	10.92	8.26	4.96	0.6	11.7	7.98	4.86	0.571	9.19	9.07	4.85	0.591	0.94	7.86
10/30/2008	0:45:40	4.86	0.629	13.25	8.23	4.79	0.579	11.09	8.26	4.93	0.6	11.73	7.98	4.85	0.571	9.17	9.08	4.85	0.592	1.16	7.85
10/30/2008	1:00:40	4.84	0.629	13.28	8.22	4.76	0.579	11	8.25	4.91	0.6	11.74	7.98	4.82	0.571	9.19	9.08	4.82	0.592	1.26	7.85
10/30/2008	1:15:40	4.8	0.629	13.3	8.22	4.71	0.579	11.01	8.25	4.88	0.6	11.65	7.98	4.81	0.572	9.18	9.07	4.83	0.592	0.96	7.85
10/30/2008	1:30:40	4.77	0.629	13.32	8.22	4.67	0.579	11.03	8.25	4.84	0.6	11.73	7.98	4.78	0.572	9.2	9.07	4.81	0.593	1.22	7.84
10/30/2008	1:45:40	4.72	0.628	13.3	8.22	4.63	0.578	11.04	8.25	4.8	0.6	11.66	7.98	4.76	0.572	9.16	9.08	4.76	0.593	1.17	7.85
10/30/2008	2:00:40	4.68	0.628	13.34	8.21	4.59	0.578	10.97	8.25	4.77	0.6	11.68	7.97	4.74	0.573	9.16	9.07	4.75	0.594	0.96	7.85
10/30/2008	2:15:40	4.64	0.628	13.33	8.21	4.55	0.578	11.03	8.25	4.73	0.6	11.74	7.97	4.71	0.573	9.17	9.07	4.72	0.594	0.93	7.85
10/30/2008	2:30:40	4.6	0.627	13.33	8.21	4.51	0.578	10.97	8.25	4.69	0.6	11.69	7.97	4.69	0.573	9.14	9.08	4.72	0.594	0.91	7.85
10/30/2008	2:45:40	4.57	0.627	13.39	8.21	4.47	0.578	10.96	8.25	4.65	0.6	11.68	7.97	4.66	0.573	9.15	9.07	4.71	0.595	0.91	7.84

EXH. . E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/30/2008	3:00:40	4.52	0.627	13.37	8.21	4.42	0.579	11.03	8.25	4.62	0.6	11.69	7.97	4.65	0.574	9.11	9.07	4.69	0.595	1.1	7.84
10/30/2008	3:15:40	4.48	0.626	13.41	8.21	4.38	0.579	11.05	8.25	4.58	0.6	11.78	7.97	4.63	0.574	9.1	9.08	4.66	0.595	1.13	7.84
10/30/2008	3:30:40	4.43	0.626	13.41	8.2	4.33	0.579	11.06	8.25	4.54	0.6	11.74	7.97	4.6	0.574	9.11	9.07	4.62	0.596	1.2	7.84
10/30/2008	3:45:40	4.38	0.626	13.42	8.2	4.29	0.579	11.07	8.25	4.51	0.601	11.81	7.97	4.58	0.574	9.12	9.07	4.61	0.596	1.2	7.84
10/30/2008	4:00:40	4.33	0.626	13.47	8.2	4.24	0.579	11.08	8.24	4.47	0.601	11.77	7.97	4.55	0.575	9.11	9.07	4.59	0.596	0.9	7.84
10/30/2008	4:15:40	4.29	0.626	13.49	8.2	4.19	0.579	11.01	8.24	4.43	0.601	11.83	7.97	4.52	0.575	9.11	9.07	4.55	0.597	1.12	7.84
10/30/2008	4:30:40	4.24	0.626	13.49	8.2	4.15	0.579	11	8.25	4.4	0.601	11.78	7.97	4.5	0.575	9.11	9.07	4.52	0.597	1.16	7.84
10/30/2008	4:45:40	4.18	0.626	13.51	8.2	4.1	0.579	11.07	8.24	4.36	0.601	11.78	7.97	4.47	0.575	9.1	9.07	4.5	0.597	1.09	7.84
10/30/2008	5:00:40	4.14	0.626	13.55	8.2	4.04	0.579	11.1	8.24	4.32	0.601	11.79	7.97	4.45	0.576	9.07	9.08	4.48	0.597	0.86	7.84
10/30/2008	5:15:40	4.09	0.626	13.55	8.2	4	0.579	11.11	8.24	4.28	0.601	11.88	7.97	4.42	0.576	9.08	9.07	4.45	0.597	1.1	7.84
10/30/2008	5:30:40	4.04	0.626	13.58	8.2	3.95	0.579	11.04	8.24	4.25	0.601	11.86	7.97	4.39	0.576	9.05	9.08	4.43	0.598	0.8	7.84
10/30/2008	5:45:40	4	0.626	13.6	8.2	3.91	0.579	11.11	8.24	4.22	0.602	11.84	7.97	4.37	0.577	9.07	9.08	4.41	0.598	0.75	7.83
10/30/2008	6:00:40	3.95	0.626	13.61	8.2	3.86	0.579	11.13	8.24	4.18	0.602	11.9	7.97	4.34	0.577	9.08	9.09	4.37	0.599	1	7.83
10/30/2008	6:15:40	3.91	0.626	13.69	8.2	3.81	0.579	11.14	8.24	4.15	0.602	11.95	7.97	4.31	0.577	9.07	9.1	4.34	0.599	0.82	7.83
10/30/2008	6:30:40	3.86	0.626	13.72	8.2	3.78	0.579	11.15	8.24	4.12	0.602	11.9	7.97	4.28	0.577	9.08	9.09	4.29	0.599	0.75	7.83
10/30/2008	6:45:40	3.83	0.626	13.7	8.2	3.74	0.579	11.16	8.24	4.09	0.602	11.89	7.97	4.26	0.578	9.04	9.09	4.24	0.6	1.05	7.84
10/30/2008	7:00:40	3.79	0.625	13.76	8.19	3.69	0.579	11.18	8.24	4.06	0.602	11.97	7.97	4.23	0.578	9.03	9.1	4.25	0.6	0.78	7.83
10/30/2008	7:15:40	3.74	0.625	13.76	8.2	3.65	0.579	11.11	8.24	4.03	0.603	11.92	7.97	4.2	0.578	9.05	9.09	4.21	0.601	0.74	7.83
10/30/2008	7:30:40	3.7	0.625	13.8	8.19	3.6	0.579	11.17	8.24	4.01	0.603	11.9	7.98	4.17	0.578	9.06	9.08	4.19	0.601	1.04	7.83
10/30/2008	7:45:40	3.66	0.625	13.81	8.2	3.57	0.579	11.18	8.24	3.98	0.603	11.99	7.98	4.14	0.579	9.02	9.09	4.19	0.601	0.81	7.83
10/30/2008	8:00:40	3.62	0.625	13.87	8.19	3.53	0.579	11.2	8.24	3.96	0.604	12.04	7.98	4.11	0.579	9.04	9.08	4.11	0.602	0.72	7.83
10/30/2008	8:15:40	3.58	0.625	13.92	8.2	3.49	0.579	11.15	8.24	3.94	0.604	12.06	7.98	4.09	0.579	9.02	9.09	4.05	0.601	1.02	7.84
10/30/2008	8:30:40	3.55	0.625	13.98	8.2	3.46	0.579	11.23	8.24	3.92	0.604	12.01	7.98	4.07	0.58	9.04	9.08	4.02	0.602	0.79	7.84
10/30/2008	8:45:40	3.53	0.625	14	8.2	3.44	0.579	11.26	8.24	3.91	0.604	12.1	7.98	4.05	0.58	9.04	9.08	3.95	0.603	0.76	7.85
10/30/2008	9:00:40	3.52	0.625	14.05	8.2	3.43	0.579	11.22	8.24	3.9	0.604	12.16	7.98	4.04	0.58	9.06	9.08	3.95	0.603	0.97	7.85
10/30/2008	9:15:40	3.51	0.624	14.11	8.21	3.42	0.579	11.23	8.25	3.91	0.605	12.2	7.98	4.01	0.58	9.05	9.09	3.92	0.603	0.77	7.85
10/30/2008	9:30:40	3.52	0.624	14.15	8.21	3.42	0.579	11.27	8.26	3.91	0.605	12.15	7.99	4.02	0.581	9.08	9.08	3.88	0.604	0.74	7.85
10/30/2008	9:45:40	3.54	0.624	14.25	8.22	3.43	0.579	11.41	8.26	3.93	0.605	12.16	7.99	4.02	0.581	9.06	9.09	3.9	0.604	0.94	7.85
10/30/2008	10:00:40	3.57	0.624	14.31	8.22	3.48	0.579	11.49	8.27	3.96	0.605	12.2	7.99	4.03	0.581	9.1	9.09	3.9	0.605	0.77	7.84
10/30/2008	10:15:40	3.61	0.623	14.37	8.23	3.55	0.579	11.57	8.28	3.99	0.605	12.24	8	4.05	0.581	9.12	9.08	3.92	0.605	0.74	7.84
10/30/2008	10:30:40	3.67	0.623	14.49	8.24	3.61	0.579	11.65	8.29	4.03	0.605	12.35	8	4.08	0.581	9.11	9.09	3.89	0.606	0.74	7.84
10/30/2008	10:45:40	3.75	0.623	14.57	8.25	3.68	0.578	11.71	8.3	4.07	0.605	12.41	8.01	4.12	0.582	9.18	9.08	3.9	0.605	0.7	7.84
10/30/2008	11:00:40	3.84	0.622	14.67	8.26	3.76	0.578	11.76	8.31	4.12	0.605	12.54	8.01	4.18	0.582	9.18	9.08	3.91	0.605	0.95	7.84
10/30/2008	11:15:40	3.97	0.622	14.75	8.27	3.83	0.578	11.73	8.32	4.2	0.605	12.47	8.02	4.27	0.582	9.21	9.08	3.89	0.606	1.05	7.84
10/30/2008	11:30:40	4.11	0.622	14.75	8.28	3.91	0.578	11.82	8.33	4.27	0.605	12.55	8.03	4.37	0.582	9.28	9.08	3.92	0.607	0.78	7.85
10/30/2008	11:45:40	4.24	0.622	14.87	8.29	4	0.578	11.8	8.34	4.37	0.605	12.56	8.03	4.48	0.583	9.28	9.09	3.97	0.607	1.01	7.84
10/30/2008	12:00:40	4.34	0.621	14.88	8.3	4.07	0.578	11.82	8.35	4.43	0.606	12.67	8.04	4.57	0.583	9.3	9.09	4.01	0.608	1.01	7.84
10/30/2008	12:15:40	4.47	0.621	14.95	8.31	4.17	0.578	11.93	8.36	4.53	0.606	12.64	8.05	4.64	0.584	9.31	9.09	4.06	0.608	0.78	7.85
10/30/2008	12:30:40	4.57	0.621	14.95	8.32	4.29	0.577	11.9	8.37	4.6	0.605	12.72	8.05	4.7	0.584	9.29	9.09	4.11	0.609	0.96	7.85
10/30/2008	12:45:40	4.66	0.621	15.01	8.33	4.49	0.577	12.02	8.39	4.69	0.605	12.69	8.06	4.75	0.584	9.35	9.08	4.15	0.609	1	7.85
10/30/2008	13:00:40	4.76	0.621	15.03	8.34	4.69	0.577	12.09	8.4	4.79	0.606	12.77	8.06	4.84	0.584	9.35	9.08	4.23	0.609	0.79	7.85
10/30/2008	13:15:40	4.83	0.621	15	8.35	4.91	0.576	12.11	8.42	4.86	0.606	12.82	8.07	4.91	0.585	9.39	9.08	4.37	0.609	0.77	7.85
10/30/2008	13:30:40	4.91	0.621	15	8.36	5.12	0.576	12.16	8.43	4.97	0.606	12.86	8.07	4.97	0.585	9.36	9.09	4.48	0.61	0.98	7.86
10/30/2008	13:45:40	4.99	0.621	15.02	8.36	5.31	0.576	12.18	8.45	5.06	0.606	12.87	8.08	5.04	0.585	9.4	9.08	4.61	0.61	1.04	7.86
10/30/2008	14:00:40	5.08	0.621	14.98	8.37	5.46	0.576	12.19	8.47	5.15	0.606	12.84	8.08	5.07	0.586	9.39	9.08	4.68	0.611	0.84	7.86
10/30/2008	14:15:40	5.17	0.621	15.01	8.37	5.59	0.575	12.17	8.48	5.22	0.606	12.84	8.09	5.09	0.586	9.37	9.08	4.78	0.612	1.08	7.87
10/30/2008	14:30:40	5.27	0.621	15.01	8.38	5.7	0.575	12.09	8.49	5.28	0.606	12.84	8.09	5.1	0.586	9.36	9.08	4.83	0.613	1.12	7.87
10/30/2008	14:45:40	5.36	0.621	14.95	8.39	5.83	0.576	12.06	8.51	5.35	0.606	12.77	8.09	5.08	0.587	9.35	9.08	4.87	0.612	0.86	7.87
10/30/2008	15:00:40	5.46	0.621	14.93	8.39	5.98	0.575	12.09	8.52	5.41	0.606	12.81	8.09	5.06	0.588	9.33	9.08	4.94	0.613	0.8	7.87
10/30/2008	15:15:40	5.54	0.621	14.91	8.4	6.12	0.575	12.01	8.53	5.48	0.606	12.75	8.1	5.06	0.588	9.31	9.08	5	0.613	0.83	7.88
10/30/2008	15:30:40	5.6	0.621	14.82	8.4	6.24	0.575	11.97	8.54	5.54	0.606	12.8	8.1	5.07	0.589	9.33	9.07	5.05	0.614	0.81	7.88
10/30/2008	15:45:40	5.69	0.621	14.79	8.41	6.34	0.575	11.99	8.54	5.59	0.606	12.79	8.1	5.08	0.59	9.28	9.08	5.06	0.614	1.09	7.88

EXh. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/30/2008	16:00:40	5.74	0.621	14.72	8.41	6.42	0.576	11.88	8.55	5.62	0.607	12.76	8.1	5.1	0.59	9.3	9.07	5.07	0.615	1.07	7.88
10/30/2008	16:15:40	5.79	0.621	14.65	8.41	6.46	0.576	11.86	8.55	5.65	0.607	12.74	8.1	5.13	0.59	9.3	9.08	5.11	0.615	0.84	7.88
10/30/2008	16:30:40	5.82	0.621	14.54	8.41	6.49	0.576	11.72	8.55	5.68	0.607	12.63	8.1	5.15	0.591	9.31	9.07	5.16	0.615	0.85	7.88
10/30/2008	16:45:40	5.88	0.622	14.42	8.41	6.48	0.576	11.72	8.55	5.69	0.607	12.62	8.1	5.17	0.591	9.28	9.07	5.22	0.616	1.1	7.88
10/30/2008	17:00:40	5.93	0.622	14.28	8.41	6.46	0.577	11.57	8.54	5.71	0.607	12.55	8.1	5.18	0.592	9.26	9.07	5.26	0.616	0.89	7.89
10/30/2008	17:15:40	5.96	0.622	14.17	8.41	6.42	0.577	11.47	8.54	5.71	0.608	12.56	8.09	5.19	0.592	9.25	9.08	5.3	0.616	0.83	7.89
10/30/2008	17:30:40	6	0.622	14.1	8.41	6.39	0.577	11.37	8.53	5.71	0.608	12.53	8.09	5.2	0.592	9.27	9.07	5.32	0.616	1.04	7.89
10/30/2008	17:45:40	6.02	0.622	14.03	8.4	6.35	0.578	11.36	8.52	5.71	0.608	12.46	8.09	5.2	0.593	9.27	9.07	5.38	0.616	0.91	7.89
10/30/2008	18:00:40	6.07	0.623	13.88	8.4	6.32	0.578	11.23	8.51	5.7	0.609	12.34	8.08	5.2	0.593	9.23	9.07	5.41	0.616	1.12	7.89
10/30/2008	18:15:40	6.06	0.623	13.79	8.4	6.29	0.579	11.13	8.5	5.69	0.609	12.35	8.07	5.2	0.594	9.25	9.07	5.45	0.616	0.91	7.89
10/30/2008	18:30:40	6.09	0.623	13.71	8.39	6.27	0.579	11.06	8.49	5.67	0.609	12.24	8.07	5.2	0.594	9.21	9.07	5.51	0.617	0.84	7.89
10/30/2008	18:45:40	6.1	0.623	13.59	8.39	6.24	0.579	11.06	8.48	5.65	0.609	12.25	8.06	5.19	0.594	9.2	9.07	5.54	0.617	1.05	7.89
10/30/2008	19:00:40	6.09	0.623	13.55	8.38	6.21	0.58	11.01	8.47	5.63	0.61	12.24	8.06	5.19	0.595	9.19	9.07	5.57	0.617	0.91	7.89
10/30/2008	19:15:40	6.09	0.624	13.48	8.37	6.17	0.58	10.89	8.45	5.6	0.61	12.2	8.06	5.19	0.595	9.18	9.07	5.61	0.617	0.84	7.9
10/30/2008	19:30:40	6.07	0.624	13.41	8.37	6.12	0.581	10.82	8.44	5.57	0.61	12.11	8.05	5.2	0.596	9.16	9.07	5.64	0.617	1.12	7.9
10/30/2008	19:45:40	6.05	0.624	13.37	8.36	6.06	0.581	10.85	8.42	5.54	0.611	12.1	8.05	5.19	0.596	9.16	9.07	5.65	0.618	0.87	7.9
10/30/2008	20:00:40	6.03	0.625	13.29	8.35	6	0.582	10.83	8.4	5.5	0.611	12.1	8.04	5.2	0.596	9.18	9.06	5.66	0.618	0.87	7.89
10/30/2008	20:15:40	6.01	0.625	13.27	8.35	5.93	0.582	10.73	8.39	5.47	0.611	12.06	8.04	5.21	0.597	9.18	9.06	5.7	0.617	1.04	7.9
10/30/2008	20:30:40	5.98	0.626	13.24	8.34	5.88	0.583	10.76	8.38	5.43	0.612	11.94	8.03	5.21	0.597	9.2	9.07	5.69	0.617	0.86	7.9
10/30/2008	20:45:40	5.94	0.626	13.17	8.33	5.81	0.583	10.76	8.36	5.39	0.612	11.98	8.03	5.21	0.597	9.19	9.07	5.7	0.618	0.87	7.9
10/30/2008	21:00:40	5.92	0.626	13.15	8.33	5.75	0.583	10.72	8.35	5.36	0.613	11.9	8.02	5.23	0.597	9.2	9.07	5.71	0.618	1.03	7.9
10/30/2008	21:15:40	5.89	0.627	13.1	8.32	5.68	0.584	10.71	8.34	5.33	0.613	11.85	8.02	5.25	0.598	9.2	9.07	5.7	0.618	0.88	7.9
10/30/2008	21:30:40	5.86	0.627	13.07	8.32	5.63	0.584	10.68	8.33	5.3	0.614	11.82	8.02	5.25	0.598	9.2	9.08	5.71	0.618	1.09	7.9
10/30/2008	21:45:40	5.82	0.627	13.08	8.31	5.57	0.585	10.69	8.32	5.26	0.614	11.87	8.01	5.26	0.598	9.19	9.08	5.69	0.618	1.12	7.9
10/30/2008	22:00:40	5.79	0.628	13.07	8.3	5.52	0.585	10.6	8.31	5.24	0.615	11.88	8.01	5.27	0.598	9.16	9.08	5.7	0.618	0.86	7.9
10/30/2008	22:15:40	5.76	0.628	13.06	8.29	5.47	0.585	10.66	8.3	5.21	0.615	11.79	8.01	5.28	0.598	9.14	9.08	5.69	0.618	0.82	7.9
10/30/2008	22:30:40	5.72	0.628	13.01	8.29	5.42	0.586	10.66	8.29	5.18	0.616	11.86	8	5.28	0.598	9.14	9.07	5.69	0.618	1.05	7.9
10/30/2008	22:45:40	5.68	0.629	13.04	8.28	5.38	0.586	10.67	8.28	5.15	0.616	11.78	8	5.29	0.598	9.14	9.07	5.68	0.618	0.83	7.9
10/30/2008	23:00:40	5.64	0.629	13.03	8.27	5.33	0.586	10.67	8.28	5.12	0.617	11.81	8	5.29	0.598	9.11	9.07	5.68	0.619	1.04	7.89
10/30/2008	23:15:40	5.6	0.629	13	8.27	5.29	0.587	10.67	8.27	5.1	0.618	11.81	7.99	5.29	0.598	9.13	9.07	5.67	0.619	1.01	7.89
10/30/2008	23:30:40	5.56	0.63	13	8.26	5.25	0.587	10.67	8.27	5.07	0.618	11.81	7.99	5.28	0.599	9.12	9.08	5.66	0.619	0.76	7.88
10/30/2008	23:45:40	5.51	0.63	12.98	8.25	5.21	0.587	10.6	8.26	5.03	0.619	11.8	7.99	5.28	0.599	9.11	9.07	5.64	0.619	0.94	7.88
10/31/2008	0:00:40	5.49	0.631	12.98	8.25	5.16	0.587	10.65	8.26	5.01	0.619	11.75	7.99	5.3	0.599	9.06	9.08	5.62	0.619	1.03	7.88
10/31/2008	0:15:40	5.43	0.631	13	8.24	5.12	0.588	10.59	8.26	4.98	0.62	11.79	7.99	5.32	0.6	9.09	9.07	5.61	0.619	0.76	7.88
10/31/2008	0:30:40	5.39	0.632	13.03	8.24	5.08	0.588	10.66	8.25	4.96	0.621	11.72	7.98	5.33	0.6	9.08	9.06	5.59	0.619	0.69	7.88
10/31/2008	0:45:40	5.34	0.632	13.06	8.23	5.05	0.588	10.67	8.25	4.93	0.621	11.73	7.98	5.33	0.6	9.07	9.06	5.58	0.619	0.97	7.87
10/31/2008	1:00:40	5.3	0.633	13.06	8.23	5.01	0.589	10.69	8.25	4.91	0.621	11.69	7.98	5.34	0.6	9.02	9.07	5.57	0.619	0.76	7.87
10/31/2008	1:15:40	5.26	0.633	13.08	8.22	4.97	0.589	10.62	8.25	4.89	0.622	11.69	7.98	5.34	0.6	9.02	9.06	5.55	0.619	0.97	7.87
10/31/2008	1:30:40	5.22	0.634	13.05	8.22	4.93	0.589	10.67	8.25	4.87	0.622	11.69	7.98	5.33	0.6	9.02	9.06	5.55	0.62	1	7.86
10/31/2008	1:45:40	5.18	0.634	13.1	8.21	4.89	0.589	10.69	8.25	4.85	0.622	11.76	7.98	5.32	0.6	8.99	9.07	5.53	0.62	0.94	7.86
10/31/2008	2:00:40	5.15	0.634	13.07	8.21	4.87	0.59	10.69	8.24	4.83	0.623	11.8	7.98	5.31	0.6	8.99	9.06	5.51	0.62	0.93	7.86
10/31/2008	2:15:40	5.11	0.635	13.07	8.2	4.82	0.59	10.63	8.24	4.81	0.623	11.8	7.98	5.3	0.6	9	9.06	5.54	0.62	0.69	7.85
10/31/2008	2:30:40	5.08	0.635	13.12	8.2	4.79	0.59	10.62	8.24	4.79	0.623	11.8	7.98	5.29	0.6	8.98	9.06	5.52	0.62	0.85	7.83
10/31/2008	2:45:40	5.03	0.635	13.14	8.2	4.76	0.591	10.61	8.24	4.77	0.624	11.73	7.98	5.28	0.6	8.93	9.06	5.49	0.621	0.94	7.83
10/31/2008	3:00:40	5.01	0.636	13.17	8.19	4.73	0.591	10.68	8.24	4.76	0.624	11.78	7.98	5.28	0.601	8.93	9.06	5.44	0.62	0.95	7.84
10/31/2008	3:15:40	4.98	0.636	13.18	8.19	4.7	0.591	10.63	8.24	4.75	0.624	11.73	7.98	5.28	0.601	8.91	9.05	5.44	0.62	0.66	7.84
10/31/2008	3:30:40	4.95	0.636	13.14	8.19	4.68	0.592	10.61	8.24	4.74	0.625	11.71	7.98	5.27	0.601	8.88	9.05	5.42	0.62	0.62	7.84
10/31/2008	3:45:40	4.92	0.636	13.19	8.18	4.65	0.592	10.68	8.24	4.73	0.625	11.71	7.98	5.26	0.601	8.85	9.05	5.4	0.62	0.87	7.84
10/31/2008	4:00:40	4.88	0.637	13.17	8.18	4.62	0.593	10.63	8.24	4.71	0.625	11.71	7.98	5.24	0.601	8.83	9.05	5.38	0.62	0.6	7.83
10/31/2008	4:15:40	4.86	0.637	13.18	8.18	4.59	0.593	10.7	8.24	4.7	0.626	11.71	7.97	5.23	0.601	8.8	9.05	5.36	0.62	0.86	7.83
10/31/2008	4:30:40	4.82	0.637	13.18	8.18	4.57	0.593	10.71	8.24	4.69	0.626	11.77	7.97	5.23	0.601	8.8	9.04	5.35	0.621	0.84	7.83
10/31/2008	4:45:40	4.8	0.637	13.24	8.18	4.55	0.594	10.72	8.23	4.67	0.626	11.73	7.97	5.21	0.601	8.79	9.04	5.36	0.62	0.62	7.82

EXI. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/31/2008	5:00:40	4.77	0.638	13.26	8.18	4.52	0.594	10.66	8.24	4.66	0.627	11.73	7.97	5.21	0.601	8.76	9.04	5.33	0.621	0.57	7.82
10/31/2008	5:15:40	4.75	0.638	13.23	8.18	4.5	0.595	10.64	8.24	4.65	0.627	11.8	7.97	5.19	0.601	8.74	9.04	5.28	0.62	0.56	7.82
10/31/2008	5:30:40	4.73	0.639	13.27	8.18	4.47	0.595	10.71	8.23	4.65	0.627	11.73	7.97	5.18	0.601	8.7	9.04	5.26	0.621	0.56	7.82
10/31/2008	5:45:40	4.71	0.639	13.28	8.17	4.45	0.596	10.73	8.23	4.64	0.627	11.8	7.97	5.18	0.601	8.72	9.04	5.27	0.62	0.76	7.82
10/31/2008	6:00:40	4.68	0.64	13.25	8.17	4.44	0.596	10.66	8.23	4.64	0.628	11.75	7.97	5.17	0.601	8.7	9.03	5.24	0.621	0.55	7.81
10/31/2008	6:15:40	4.65	0.64	13.27	8.17	4.41	0.597	10.71	8.23	4.63	0.628	11.8	7.97	5.15	0.601	8.69	9.03	5.24	0.62	0.8	7.81
10/31/2008	6:30:40	4.64	0.64	13.3	8.17	4.4	0.597	10.73	8.23	4.63	0.628	11.75	7.97	5.15	0.601	8.66	9.03	5.21	0.621	0.84	7.81
10/31/2008	6:45:40	4.61	0.64	13.32	8.17	4.38	0.597	10.67	8.23	4.62	0.628	11.8	7.97	5.14	0.601	8.69	9.03	5.18	0.621	0.57	7.81
10/31/2008	7:00:40	4.6	0.641	13.34	8.17	4.36	0.598	10.72	8.23	4.62	0.629	11.83	7.97	5.12	0.601	8.64	9.03	5.16	0.621	0.48	7.8
10/31/2008	7:15:40	4.58	0.641	13.36	8.17	4.34	0.598	10.73	8.23	4.62	0.629	11.84	7.97	5.11	0.601	8.59	9.03	5.16	0.621	0.71	7.8
10/31/2008	7:30:40	4.55	0.641	13.32	8.17	4.33	0.598	10.75	8.23	4.62	0.629	11.83	7.97	5.1	0.601	8.58	9.03	5.12	0.621	0.81	7.8
10/31/2008	7:45:40	4.54	0.642	13.34	8.17	4.31	0.599	10.75	8.23	4.61	0.629	11.84	7.97	5.09	0.601	8.6	9.02	5.1	0.62	0.53	7.8
10/31/2008	8:00:40	4.53	0.642	13.39	8.17	4.3	0.599	10.68	8.23	4.61	0.629	11.84	7.97	5.08	0.601	8.57	9.03	5.09	0.621	0.45	7.8
10/31/2008	8:15:40	4.52	0.642	13.4	8.17	4.29	0.599	10.7	8.23	4.61	0.63	11.79	7.97	5.07	0.601	8.58	9.03	5.07	0.622	0.69	7.79
10/31/2008	8:30:40	4.5	0.643	13.45	8.17	4.29	0.6	10.68	8.23	4.62	0.63	11.84	7.97	5.05	0.601	8.57	9.03	5.08	0.621	0.51	7.79
10/31/2008	8:45:40	4.51	0.643	13.52	8.17	4.29	0.6	10.66	8.24	4.63	0.63	11.88	7.97	5.04	0.601	8.57	9.02	5.07	0.621	0.43	7.79
10/31/2008	9:00:40	4.5	0.643	13.54	8.18	4.3	0.6	10.79	8.24	4.65	0.63	11.86	7.98	5.05	0.601	8.57	9.03	5.05	0.621	0.67	7.79
10/31/2008	9:15:40	4.51	0.644	13.62	8.18	4.33	0.6	10.86	8.25	4.68	0.63	11.87	7.98	5.05	0.601	8.57	9.03	5.05	0.622	0.5	7.78
10/31/2008	9:30:40	4.53	0.644	13.66	8.19	4.36	0.6	10.9	8.25	4.71	0.63	11.96	7.98	5.06	0.601	8.59	9.02	5.01	0.622	0.67	7.78
10/31/2008	9:45:40	4.56	0.644	13.73	8.19	4.41	0.6	11	8.26	4.75	0.63	12.02	7.99	5.08	0.601	8.56	9.03	4.96	0.622	0.44	7.78
10/31/2008	10:00:40	4.6	0.645	13.82	8.2	4.47	0.6	11.03	8.27	4.8	0.63	12.01	7.99	5.1	0.601	8.56	9.03	4.98	0.621	0.44	7.78
10/31/2008	10:15:40	4.65	0.645	13.92	8.21	4.58	0.6	11.16	8.28	4.85	0.63	12.11	8	5.14	0.601	8.57	9.03	5.02	0.621	0.7	7.78
10/31/2008	10:30:40	4.72	0.645	14.01	8.22	4.69	0.6	11.25	8.3	4.91	0.63	12.1	8	5.19	0.601	8.58	9.03	5.01	0.621	0.71	7.78
10/31/2008	10:45:40	4.81	0.645	14.12	8.23	4.81	0.6	11.28	8.31	4.98	0.63	12.2	8.01	5.25	0.601	8.6	9.03	5.05	0.621	0.48	7.78
10/31/2008	11:00:40	4.94	0.645	14.25	8.24	4.94	0.6	11.34	8.32	5.08	0.63	12.25	8.01	5.33	0.601	8.62	9.03	5.04	0.621	0.44	7.77
10/31/2008	11:15:40	5.05	0.645	14.27	8.25	5.06	0.6	11.47	8.33	5.18	0.63	12.25	8.02	5.43	0.601	8.69	9.02	5.06	0.621	0.71	7.78
10/31/2008	11:30:40	5.26	0.645	14.34	8.26	5.17	0.6	11.52	8.34	5.31	0.629	12.33	8.02	5.53	0.6	8.69	9.03	5.07	0.62	0.44	7.78
10/31/2008	11:45:40	5.36	0.646	14.42	8.28	5.3	0.6	11.51	8.36	5.41	0.63	12.43	8.03	5.64	0.6	8.74	9.02	5.13	0.62	0.44	7.78
10/31/2008	12:00:40	5.51	0.646	14.5	8.29	5.42	0.6	11.53	8.37	5.54	0.63	12.49	8.04	5.75	0.6	8.79	9.02	5.21	0.619	0.66	7.78
10/31/2008	12:15:40	5.6	0.646	14.54	8.3	5.54	0.6	11.65	8.38	5.68	0.629	12.42	8.05	5.87	0.6	8.8	9.03	5.26	0.619	0.44	7.78
10/31/2008	12:30:40	5.86	0.645	14.59	8.31	5.68	0.6	11.65	8.39	5.78	0.629	12.43	8.06	5.96	0.6	8.83	9.03	5.32	0.62	0.42	7.78
10/31/2008	12:45:40	6.06	0.645	14.68	8.32	5.89	0.6	11.76	8.4	5.92	0.629	12.53	8.06	6.05	0.6	8.85	9.02	5.39	0.62	0.72	7.78
10/31/2008	13:00:40	6.22	0.646	14.69	8.34	6.05	0.6	11.75	8.42	6.03	0.629	12.49	8.07	6.18	0.599	8.82	9.02	5.47	0.62	0.51	7.78
10/31/2008	13:15:40	6.38	0.645	14.73	8.34	6.27	0.6	11.86	8.44	6.15	0.628	12.49	8.07	6.31	0.599	8.82	9.03	5.55	0.619	0.49	7.77
10/31/2008	13:30:40	6.43	0.646	14.82	8.35	6.56	0.599	11.87	8.46	6.27	0.628	12.52	8.08	6.43	0.599	8.87	9.02	5.61	0.62	0.73	7.77
10/31/2008	13:45:40	6.57	0.646	14.81	8.37	6.8	0.599	11.86	8.47	6.39	0.628	12.62	8.09	6.54	0.599	8.9	9.02	5.72	0.619	0.53	7.76
10/31/2008	14:00:40	6.67	0.646	14.76	8.38	7	0.599	11.88	8.49	6.49	0.628	12.6	8.09	6.63	0.599	8.91	9.02	5.84	0.619	0.5	7.76
10/31/2008	14:15:40	6.83	0.646	14.75	8.39	7.17	0.599	11.86	8.51	6.6	0.627	12.61	8.09	6.69	0.599	8.88	9.02	5.96	0.619	0.72	7.76
10/31/2008	14:30:40	6.97	0.646	14.79	8.39	7.34	0.599	11.81	8.53	6.71	0.627	12.59	8.1	6.78	0.599	8.85	9.02	6.09	0.619	0.52	7.76
10/31/2008	14:45:40	7.08	0.647	14.76	8.4	7.49	0.599	11.88	8.54	6.84	0.627	12.51	8.1	6.79	0.599	8.84	9.02	6.14	0.62	0.5	7.76
10/31/2008	15:00:40	7.19	0.647	14.68	8.41	7.66	0.598	11.89	8.55	6.91	0.627	12.56	8.1	6.78	0.599	8.84	9.01	6.22	0.62	0.78	7.75
10/31/2008	15:15:40	7.27	0.647	14.72	8.41	7.86	0.598	11.81	8.57	7.04	0.627	12.48	8.11	6.77	0.6	8.81	9.01	6.35	0.619	0.56	7.75
10/31/2008	15:30:40	7.35	0.647	14.69	8.42	8.02	0.598	11.78	8.58	7.15	0.626	12.52	8.11	6.76	0.6	8.76	9.02	6.46	0.619	0.82	7.75
10/31/2008	15:45:40	7.46	0.648	14.55	8.43	8.18	0.598	11.8	8.59	7.22	0.626	12.44	8.11	6.79	0.599	8.75	9.01	6.54	0.619	0.63	7.75
10/31/2008	16:00:40	7.55	0.648	14.5	8.43	8.32	0.598	11.79	8.6	7.31	0.626	12.46	8.11	6.82	0.599	8.7	9.01	6.57	0.619	0.58	7.75
10/31/2008	16:15:40	7.57	0.648	14.43	8.43	8.45	0.598	11.59	8.61	7.37	0.626	12.44	8.11	6.83	0.599	8.7	9	6.59	0.619	0.75	7.76
10/31/2008	16:30:40	7.6	0.649	14.3	8.43	8.56	0.598	11.56	8.61	7.44	0.626	12.37	8.11	6.84	0.599	8.65	9.01	6.66	0.619	0.61	7.75
10/31/2008	16:45:40	7.66	0.649	14.2	8.43	8.68	0.598	11.46	8.62	7.5	0.626	12.32	8.11	6.87	0.599	8.62	9	6.66	0.619	0.75	7.75
10/31/2008	17:00:40	7.7	0.649	14.08	8.42	8.73	0.598	11.42	8.62	7.56	0.626	12.25	8.11	6.88	0.6	8.63	9	6.71	0.619	0.85	7.75
10/31/2008	17:15:40	7.74	0.65	13.97	8.42	8.75	0.598	11.27	8.62	7.61	0.626	12.18	8.1	6.89	0.6	8.63	9	6.75	0.62	0.86	7.75
10/31/2008	17:30:40	7.77	0.65	13.83	8.42	8.75	0.598	11.13	8.62	7.65	0.626	12.06	8.1	6.91	0.6	8.6	8.99	6.82	0.62	0.59	7.74
10/31/2008	17:45:40	7.82	0.651	13.67	8.41	8.73	0.599	10.99	8.61	7.68	0.626	12.03	8.1	6.93	0.6	8.54	8.99	6.82	0.62	0.73	7.74

EXI.. E

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 7.25				RM 8.15				RM 8.77				RM 9.10			
Date	Time	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su	Temp C	SpCond mS/cm	DO Conc mg/L	pH su
10/31/2008	18:00:40	7.81	0.651	13.54	8.41	8.7	0.599	10.84	8.6	7.71	0.626	11.96	8.09	6.94	0.6	8.51	8.99	6.87	0.62	0.83	7.73
10/31/2008	18:15:40	7.9	0.651	13.37	8.4	8.67	0.599	10.7	8.59	7.72	0.626	11.88	8.08	6.95	0.6	8.51	8.99	6.93	0.621	0.56	7.72
10/31/2008	18:30:40	7.9	0.651	13.27	8.39	8.65	0.6	10.65	8.58	7.72	0.626	11.8	8.08	6.97	0.6	8.5	8.98	6.98	0.621	0.55	7.72
10/31/2008	18:45:40	7.94	0.652	13.12	8.39	8.63	0.6	10.59	8.57	7.73	0.627	11.67	8.07	6.98	0.601	8.44	8.99	7.05	0.621	0.57	7.71
10/31/2008	19:00:40	7.96	0.652	13.02	8.38	8.62	0.6	10.44	8.55	7.74	0.627	11.56	8.06	6.99	0.601	8.45	8.98	7.13	0.62	0.59	7.7
10/31/2008	19:15:40	7.98	0.652	12.89	8.38	8.6	0.601	10.39	8.54	7.73	0.627	11.5	8.06	7	0.601	8.43	8.98	7.17	0.621	0.81	7.7
10/31/2008	19:30:40	8	0.652	12.77	8.37	8.59	0.601	10.25	8.53	7.73	0.627	11.51	8.05	7	0.601	8.44	8.97	7.21	0.621	0.6	7.69
10/31/2008	19:45:40	8.02	0.653	12.68	8.37	8.56	0.601	10.22	8.51	7.72	0.627	11.41	8.05	7.01	0.601	8.38	8.98	7.24	0.621	0.53	7.69
10/31/2008	20:00:40	8.05	0.653	12.57	8.36	8.54	0.602	10.09	8.5	7.72	0.628	11.41	8.04	7.02	0.602	8.34	8.98	7.27	0.621	0.74	7.68
10/31/2008	20:15:40	8.08	0.653	12.48	8.36	8.51	0.602	10.11	8.48	7.71	0.628	11.32	8.04	7.03	0.602	8.33	8.98	7.3	0.621	0.55	7.67
10/31/2008	20:30:40	8.06	0.653	12.43	8.35	8.49	0.602	10.01	8.47	7.7	0.628	11.33	8.03	7.05	0.602	8.34	8.97	7.39	0.621	0.74	7.66
10/31/2008	20:45:40	8.12	0.653	12.37	8.34	8.45	0.603	9.95	8.45	7.68	0.628	11.24	8.02	7.06	0.602	8.34	8.97	7.4	0.621	0.6	7.66
10/31/2008	21:00:40	8.14	0.653	12.27	8.34	8.42	0.603	9.89	8.43	7.66	0.628	11.18	8.02	7.07	0.603	8.34	8.97	7.4	0.621	0.57	7.66
10/31/2008	21:15:40	8.14	0.653	12.23	8.33	8.38	0.603	9.88	8.42	7.64	0.629	11.15	8.01	7.09	0.603	8.34	8.97	7.44	0.622	0.56	7.66
10/31/2008	21:30:40	8.11	0.654	12.16	8.33	8.34	0.604	9.91	8.4	7.62	0.629	11.1	8.01	7.12	0.603	8.3	8.97	7.47	0.622	0.58	7.67
10/31/2008	21:45:40	8.17	0.654	12.05	8.32	8.29	0.604	9.83	8.39	7.59	0.629	11.06	8	7.14	0.604	8.29	8.97	7.49	0.622	0.57	7.67
10/31/2008	22:00:40	8.16	0.654	12.03	8.31	8.25	0.605	9.79	8.37	7.57	0.629	11.03	8	7.15	0.603	8.31	8.97	7.5	0.622	0.77	7.67
10/31/2008	22:15:40	8.17	0.654	11.96	8.31	8.2	0.605	9.76	8.35	7.54	0.629	11.06	7.99	7.17	0.603	8.27	8.98	7.54	0.622	0.53	7.66
10/31/2008	22:30:40	8.16	0.654	11.9	8.3	8.16	0.605	9.8	8.34	7.52	0.629	10.99	7.99	7.19	0.604	8.3	8.97	7.58	0.622	0.55	7.65
10/31/2008	22:45:40	8.16	0.655	11.88	8.29	8.1	0.606	9.79	8.32	7.5	0.629	10.95	7.98	7.21	0.604	8.3	8.97	7.64	0.623	0.79	7.65
10/31/2008	23:00:40	8.17	0.655	11.82	8.29	8.06	0.606	9.8	8.31	7.47	0.629	10.91	7.98	7.23	0.604	8.25	8.97	7.64	0.623	0.57	7.65
10/31/2008	23:15:40	8.16	0.655	11.77	8.28	8.01	0.606	9.79	8.29	7.44	0.63	10.96	7.97	7.26	0.604	8.23	8.97	7.66	0.623	0.54	7.64
10/31/2008	23:30:40	8.17	0.656	11.72	8.27	7.97	0.607	9.73	8.28	7.42	0.63	10.89	7.97	7.28	0.604	8.25	8.96	7.66	0.623	0.53	7.64
10/31/2008	23:45:40	8.15	0.656	11.68	8.27	7.93	0.607	9.76	8.27	7.4	0.63	10.92	7.97	7.3	0.604	8.22	8.97	7.67	0.623	0.7	7.63

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/9/2008	17:00:08	14.84	0.802	12.66	8.28	13.88	0.461	10.05	8.05	13.06	0.665	7.7	7.6
10/9/2008	17:15:08	14.88	0.797	13.04	8.28	13.86	0.461	9.84	8.04	13.05	0.666	7.59	7.61
10/9/2008	17:30:08	14.85	0.793	12.78	8.28	13.85	0.462	9.77	8.04	13.05	0.666	7.51	7.61
10/9/2008	17:45:08	14.74	0.787	12.24	8.27	13.85	0.462	9.65	8.03	13.09	0.666	7.13	7.61
10/9/2008	18:00:08	14.65	0.785	12.62	8.26	13.84	0.463	9.62	8.03	13.08	0.666	6.93	7.6
10/9/2008	18:15:08	14.59	0.784	12.25	8.25	13.83	0.463	9.56	8.02	13.08	0.666	6.07	7.59
10/9/2008	18:30:08	14.51	0.783	12.39	8.23	13.81	0.464	9.53	8.02	13.17	0.666	6.53	7.58
10/9/2008	18:45:08	14.43	0.783	12.33	8.22	13.79	0.464	9.47	8.02	13.16	0.666	7.02	7.6
10/9/2008	19:00:08	14.39	0.781	12.17	8.21	13.76	0.464	9.46	8.01	13.13	0.666	6.41	7.58
10/9/2008	19:15:08	14.3	0.78	11.53	8.2	13.74	0.464	9.4	8.01	13.14	0.666	6.52	7.58
10/9/2008	19:30:08	14.27	0.779	11.84	8.19	13.72	0.464	9.36	8.01	13.12	0.666	6.67	7.57
10/9/2008	19:45:08	14.19	0.778	11.9	8.18	13.7	0.464	9.35	8.01	13.13	0.666	6.71	7.57
10/9/2008	20:00:08	14.16	0.776	11.83	8.17	13.67	0.464	9.35	8.01	13.13	0.666	6.6	7.57
10/9/2008	20:15:08	14.11	0.775	11.27	8.17	13.63	0.465	9.29	8	13.14	0.666	5.71	7.55
10/9/2008	20:30:08	14.08	0.774	11.58	8.16	13.59	0.465	9.25	8	13.15	0.667	5.78	7.55
10/9/2008	20:45:08	14.04	0.773	11.68	8.16	13.55	0.465	9.25	8	13.16	0.666	5.63	7.56
10/9/2008	21:00:08	13.99	0.773	11.12	8.15	13.51	0.465	9.23	8	13.17	0.666	5.88	7.55
10/9/2008	21:15:08	13.95	0.771	11.36	8.14	13.46	0.466	9.27	8	13.21	0.667	6.39	7.54
10/9/2008	21:30:08	13.92	0.771	11.05	8.14	13.42	0.465	9.23	8	13.19	0.667	5.96	7.54
10/9/2008	21:45:08	13.89	0.77	11.3	8.14	13.38	0.466	9.21	8	13.2	0.666	6.1	7.56
10/9/2008	22:00:08	13.87	0.772	11.49	8.13	13.33	0.465	9.18	8.12	13.19	0.667	6.31	7.56
10/9/2008	22:15:08	13.81	0.771	11.37	8.12	13.29	0.465	9.15	8.3	13.31	0.666	6.25	7.57
10/9/2008	22:30:08	13.74	0.771	11.33	8.13	13.23	0.466	9.17	8.59	13.25	0.666	6.03	7.56
10/9/2008	22:45:08	13.67	0.771	10.86	8.13	13.18	0.466	9.13	8.96	13.25	0.666	5.92	7.56
10/9/2008	23:00:08	13.64	0.77	10.78	8.12	13.12	0.466	9.14	8.89	13.23	0.666	5.82	7.55
10/9/2008	23:15:08	13.59	0.77	10.92	8.11	13.08	0.466	9.15	9.37	13.21	0.666	5.76	7.54
10/9/2008	23:30:08	13.49	0.769	11.15	8.11	13.03	0.466	9.11	9.38	13.24	0.666	6.39	7.56
10/9/2008	23:45:08	13.45	0.769	11.11	8.1	12.97	0.466	9.09	9.56	13.24	0.666	6.66	7.57
10/10/2008	0:00:08	13.4	0.768	11.11	8.1	12.92	0.466	9.11	9.64	13.24	0.666	6.5	7.57
10/10/2008	0:15:08	13.33	0.768	10.72	8.1	12.88	0.466	9.08	9.82	13.24	0.665	6.47	7.56
10/10/2008	0:30:08	13.3	0.767	10.63	8.09	12.82	0.466	9.08	10.22	13.23	0.666	6.12	7.56
10/10/2008	0:45:08	13.26	0.766	10.61	8.08	12.79	0.466	9.1	11.52	13.27	0.665	5.97	7.56
10/10/2008	1:00:08	13.21	0.766	10.79	8.08	12.73	0.467	9.06	11.95	13.25	0.665	5.57	7.56
10/10/2008	1:15:08	13.12	0.766	11.04	8.08	12.68	0.467	9.06	12.31	13.26	0.665	6.24	7.56
10/10/2008	1:30:08	13.1	0.763	10.65	8.08	12.65	0.467	9.05	12.44	13.24	0.665	5.92	7.55
10/10/2008	1:45:08	13.04	0.762	10.6	8.08	12.6	0.468	9.05	11.75	13.23	0.665	5.6	7.55
10/10/2008	2:00:08	12.95	0.762	10.61	8.08	12.54	0.467	9.05	12.03	13.21	0.665	6.03	7.56
10/10/2008	2:15:08	12.91	0.76	10.88	8.08	12.49	0.468	9.03	12.15	13.18	0.665	6.14	7.56
10/10/2008	2:30:08	12.82	0.76	11.12	8.08	12.43	0.468	9.04	12.25	13.15	0.665	6.16	7.56
10/10/2008	2:45:08	12.73	0.759	10.75	8.08	12.39	0.468	9.05	12.65	13.14	0.664	6.45	7.56
10/10/2008	3:00:08	12.7	0.759	11.03	8.08	12.33	0.469	9.02	12.44	13.1	0.664	6.61	7.58
10/10/2008	3:15:08	12.62	0.759	11.12	8.08	12.28	0.469	9.01	12.79	13.05	0.664	6.44	7.58
10/10/2008	3:30:08	12.59	0.758	11.12	8.08	12.22	0.47	9.03	12.76	13.01	0.663	6.66	7.58
10/10/2008	3:45:08	12.5	0.757	11.15	8.07	12.16	0.47	9	12.88	12.98	0.663	6.52	7.59
10/10/2008	4:00:08	12.46	0.757	11.19	8.07	12.1	0.47	8.98	12.59	12.95	0.662	6.84	7.62
10/10/2008	4:15:08	12.45	0.756	10.7	8.06	12.05	0.471	9.02	12.62	12.92	0.662	7.32	7.61
10/10/2008	4:30:08	12.33	0.755	11.08	8.07	12	0.471	9.04	12.6	12.92	0.661	7.12	7.61
10/10/2008	4:45:08	12.25	0.755	11.21	8.06	11.94	0.472	9.01	12.52	12.84	0.661	6.95	7.62
10/10/2008	5:00:08	12.17	0.753	10.79	8.07	11.87	0.472	9.01	12.49	12.82	0.661	7.59	7.62
10/10/2008	5:15:08	12.11	0.752	10.77	8.07	11.82	0.473	9.06	12.75	12.84	0.661	7.3	7.63
10/10/2008	5:30:08	12.06	0.753	11.03	8.07	11.77	0.473	9.02	12.39	12.78	0.661	7.52	7.63
10/10/2008	5:45:08	12	0.753	11.16	8.07	11.71	0.474	9.06	12.67	12.77	0.661	7.21	7.63
10/10/2008	6:00:08	11.95	0.752	11.22	8.06	11.66	0.481	9.06	12.51	12.69	0.662	7.49	7.64
10/10/2008	6:15:08	11.87	0.752	10.85	8.06	11.6	0.482	9.07	12.42	12.62	0.661	7.59	7.61
10/10/2008	6:30:08	11.79	0.751	11.23	8.06	11.56	0.483	9.05	12.52	12.58	0.661	7.67	7.63
10/10/2008	6:45:08	11.73	0.751	11.33	8.07	11.49	0.484	9.09	12.61	12.51	0.662	7.52	7.63
10/10/2008	7:00:08	11.68	0.75	11.31	8.06	11.44	0.485	9.06	12.67	12.51	0.661	7.59	7.63
10/10/2008	7:15:08	11.64	0.75	11.27	8.06	11.39	0.488	9.09	12.81	12.49	0.661	7.39	7.63
10/10/2008	7:30:08	11.59	0.75	10.88	8.06	11.35	0.489	9.11	12.69	12.39	0.661	7.57	7.64
10/10/2008	7:45:08	11.55	0.75	11.28	8.06	11.29	0.49	9.12	12.42	12.39	0.661	7.36	7.63
10/10/2008	8:00:08	11.42	0.75	10.95	8.06	11.24	0.491	9.13	12.32	12.3	0.662	7.61	7.63

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/10/2008	8:15:08	11.35	0.75	10.92	8.06	11.2	0.492	9.16	12.43	12.33	0.661	7.66	7.62
10/10/2008	8:30:08	11.32	0.749	11.31	8.06	11.18	0.493	9.16	12.21	12.32	0.661	7.43	7.63
10/10/2008	8:45:08	11.3	0.75	10.9	8.06	11.15	0.494	9.17	12.48	12.27	0.662	7.44	7.62
10/10/2008	9:00:08	11.33	0.749	11.33	8.06	11.16	0.579	9.19	11.94	12.17	0.662	7.32	7.63
10/10/2008	9:15:08	11.39	0.748	11.29	8.05	11.18	0.582	9.26	12.49	12.18	0.661	7.46	7.63
10/10/2008	9:30:08	11.38	0.748	11.34	8.05	11.21	0.583	9.29	12.64	12.17	0.661	7.37	7.63
10/10/2008	9:45:08	11.36	0.749	11.4	8.05	11.25	0.584	9.35	12.76	12.11	0.662	7.18	7.62
10/10/2008	10:00:08	11.34	0.749	10.88	8.05	11.33	0.585	9.47	12.8	12.17	0.661	7.48	7.63
10/10/2008	10:15:08	11.32	0.748	10.92	8.05	11.39	0.586	9.52	12.79	12.15	0.662	7.31	7.61
10/10/2008	10:30:08	11.35	0.748	11.28	8.04	11.43	0.586	9.49	12.88	12.14	0.662	7.41	7.62
10/10/2008	10:45:08	11.35	0.748	11.33	8.06	11.48	0.587	9.54	12.86	12.13	0.662	7.27	7.62
10/10/2008	11:00:08	11.4	0.747	11.47	8.06	11.59	0.588	9.64	12.84	12.14	0.662	7.38	7.62
10/10/2008	11:15:08	11.41	0.748	11.46	8.07	11.69	0.588	9.69	12.85	12.15	0.662	7.25	7.62
10/10/2008	11:30:08	11.47	0.748	11.96	8.08	11.8	0.588	9.79	12.85	12.21	0.662	7.15	7.61
10/10/2008	11:45:08	11.55	0.748	11.61	8.08	11.89	0.588	9.78	12.85	12.22	0.662	7.22	7.61
10/10/2008	12:00:08	11.6	0.748	11.53	8.08	11.97	0.588	9.82	12.85	12.21	0.663	7.01	7.61
10/10/2008	12:15:08	11.67	0.748	11.5	8.08	12.04	0.588	9.88	12.84	12.25	0.663	6.74	7.61
10/10/2008	12:30:08	11.78	0.748	11.86	8.09	12.12	0.588	9.93	12.84	12.27	0.663	7.04	7.61
10/10/2008	12:45:08	11.97	0.748	11.9	8.14	12.22	0.588	9.95	12.79	12.28	0.664	7.15	7.61
10/10/2008	13:00:08	12.11	0.748	12.13	8.16	12.31	0.588	10.04	12.78	12.3	0.664	7	7.61
10/10/2008	13:15:08	12.3	0.748	12.39	8.19	12.37	0.588	10.11	12.76	12.34	0.664	7.07	7.6
10/10/2008	13:30:08	12.44	0.748	12.83	8.21	12.45	0.588	10.15	12.76	12.39	0.665	7.04	7.6
10/10/2008	13:45:08	12.55	0.748	12.79	8.22	12.53	0.587	10.2	12.75	12.4	0.665	7	7.6
10/10/2008	14:00:08	12.96	0.745	12.29	8.22	12.62	0.588	10.23	12.76	12.44	0.663	6.96	7.6
10/10/2008	14:15:08	12.97	0.748	12.62	8.26	12.64	0.589	10.26	12.74	12.45	0.664	7.02	7.6
10/10/2008	14:30:08	13.39	0.745	12.89	8.28	12.69	0.589	10.3	12.75	12.47	0.665	6.97	7.6
10/10/2008	14:45:08	13.37	0.746	12.76	8.29	12.71	0.588	10.31	12.75	12.51	0.665	6.78	7.59
10/10/2008	15:00:08	13.38	0.746	12.86	8.28	12.71	0.589	10.28	12.75	12.54	0.666	6.07	7.57
10/10/2008	15:15:08	13.48	0.746	12.92	8.29	12.76	0.589	10.34	12.72	12.67	0.666	6.46	7.58
10/10/2008	15:30:08	13.66	0.745	12.62	8.32	12.8	0.588	10.4	12.63	12.73	0.664	7.01	7.58
10/10/2008	15:45:08	13.84	0.745	13.55	8.33	12.81	0.588	10.37	12.69	12.7	0.664	6.6	7.57
10/10/2008	16:00:08	13.83	0.744	13.4	8.33	12.81	0.588	10.36	12.65	12.73	0.663	7.02	7.59
10/10/2008	16:15:08	13.91	0.744	13.86	8.34	12.8	0.589	10.31	12.66	12.72	0.664	6.86	7.59
10/10/2008	16:30:08	13.95	0.743	13.14	8.33	12.82	0.588	10.28	12.69	12.72	0.664	7.09	7.6
10/10/2008	16:45:08	13.91	0.743	13.51	8.33	12.8	0.588	10.25	12.67	12.74	0.664	7.14	7.6
10/10/2008	17:00:08	13.95	0.743	13.76	8.33	12.82	0.588	10.16	12.65	12.73	0.665	6.67	7.59
10/10/2008	17:15:08	13.98	0.742	13.5	8.33	12.81	0.588	10.14	12.6	12.74	0.665	6.98	7.59
10/10/2008	17:30:08	13.96	0.741	13.9	8.33	12.79	0.59	10.09	12.58	12.77	0.665	6.89	7.59
10/10/2008	17:45:08	13.89	0.741	13.34	8.33	12.81	0.589	10	12.57	12.77	0.665	6.56	7.59
10/10/2008	18:00:08	13.87	0.741	12.85	8.32	12.81	0.589	9.96	12.62	12.78	0.665	6.55	7.58
10/10/2008	18:15:08	13.8	0.742	13.02	8.31	12.81	0.59	9.92	12.65	12.78	0.665	6.12	7.58
10/10/2008	18:30:08	13.76	0.742	13.01	8.3	12.8	0.59	9.88	12.67	12.78	0.665	6.54	7.58
10/10/2008	18:45:08	13.68	0.743	12.95	8.28	12.81	0.59	9.83	12.67	12.79	0.665	6.06	7.56
10/10/2008	19:00:08	13.6	0.744	12.23	8.27	12.79	0.592	9.78	12.61	12.8	0.665	4.94	7.54
10/10/2008	19:15:08	13.54	0.744	12.06	8.26	12.76	0.591	9.75	12.55	12.8	0.665	5	7.54
10/10/2008	19:30:08	13.47	0.745	11.95	8.24	12.76	0.592	9.72	12.58	12.8	0.666	4.44	7.52
10/10/2008	19:45:08	13.38	0.745	11.85	8.23	12.76	0.593	9.65	12.58	12.8	0.666	4.82	7.51
10/10/2008	20:00:08	13.33	0.746	11.73	8.22	12.73	0.593	9.65	12.25	12.8	0.666	5.15	7.51
10/10/2008	20:15:08	13.25	0.746	12.08	8.21	12.71	0.593	9.63	12.58	12.8	0.666	5.39	7.51
10/10/2008	20:30:08	13.18	0.746	12.15	8.2	12.68	0.594	9.65	12.6	12.8	0.666	5.47	7.53
10/10/2008	20:45:08	13.15	0.746	11.62	8.2	12.66	0.596	9.57	12.63	12.81	0.666	5.6	7.55
10/10/2008	21:00:08	13.13	0.746	11.55	8.19	12.64	0.596	9.54	12.63	12.89	0.667	5.72	7.55
10/10/2008	21:15:08	13.07	0.747	11.48	8.19	12.61	0.597	9.54	12.64	12.87	0.667	6.22	7.56
10/10/2008	21:30:08	13.05	0.746	11.44	8.19	12.59	0.598	9.51	12.62	12.89	0.667	6.09	7.57
10/10/2008	21:45:08	12.98	0.747	11.77	8.18	12.57	0.598	9.5	12.5	12.84	0.667	6.26	7.57
10/10/2008	22:00:08	12.95	0.747	11.85	8.17	12.56	0.599	9.52	12.6	12.89	0.667	6.62	7.58
10/10/2008	22:15:08	12.9	0.747	11.39	8.17	12.55	0.6	9.47	12.55	12.87	0.667	6.48	7.57
10/10/2008	22:30:08	12.9	0.747	11.8	8.17	12.53	0.6	9.46	12.59	12.86	0.667	6.59	7.57
10/10/2008	22:45:08	12.88	0.747	11.31	8.16	12.5	0.601	9.46	12.6	12.85	0.667	6.26	7.57
10/10/2008	23:00:08	12.85	0.747	11.29	8.16	12.48	0.601	9.43	12.6	12.85	0.667	6.07	7.56
10/10/2008	23:15:08	12.83	0.747	11.21	8.16	12.44	0.601	9.41	12.51	12.86	0.667	6.19	7.55

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/10/2008	23:30:08	12.8	0.747	11.19	8.15	12.42	0.602	9.38	12.52	12.87	0.667	5.62	7.55
10/10/2008	23:45:08	12.8	0.748	11.52	8.15	12.38	0.602	9.39	12.51	12.87	0.667	5.73	7.54
10/11/2008	0:00:08	12.77	0.748	11.67	8.15	12.36	0.603	9.35	12.59	12.89	0.667	5.51	7.53
10/11/2008	0:15:08	12.73	0.748	11.51	8.14	12.33	0.603	9.35	12.32	12.88	0.667	5.61	7.52
10/11/2008	0:30:08	12.69	0.747	11.15	8.14	12.29	0.604	9.35	12.59	12.89	0.667	6	7.54
10/11/2008	0:45:08	12.65	0.747	11.06	8.14	12.26	0.604	9.31	12.59	12.89	0.668	5.67	7.56
10/11/2008	1:00:08	12.6	0.747	11.04	8.14	12.24	0.605	9.3	12.51	12.89	0.669	6.75	7.59
10/11/2008	1:15:08	12.57	0.747	10.98	8.14	12.2	0.605	9.27	12.48	12.89	0.669	6.83	7.6
10/11/2008	1:30:08	12.53	0.747	11.36	8.13	12.17	0.606	9.25	12.47	12.87	0.669	6.39	7.6
10/11/2008	1:45:08	12.51	0.747	11.37	8.13	12.14	0.606	9.26	12.51	12.86	0.669	6.63	7.6
10/11/2008	2:00:08	12.5	0.747	10.86	8.12	12.1	0.607	9.25	12.43	12.83	0.669	6.81	7.62
10/11/2008	2:15:08	12.46	0.747	11.57	8.12	12.06	0.607	9.25	12.43	12.83	0.669	7.22	7.62
10/11/2008	2:30:08	12.41	0.747	10.95	8.12	12.03	0.608	9.26	12.45	12.8	0.669	6.94	7.62
10/11/2008	2:45:08	12.35	0.747	11.16	8.11	11.99	0.609	9.23	12.43	12.79	0.669	6.99	7.63
10/11/2008	3:00:08	12.3	0.747	11.29	8.11	11.96	0.609	9.23	12.44	12.76	0.669	6.94	7.62
10/11/2008	3:15:08	12.23	0.747	11.65	8.11	11.92	0.61	9.22	12.41	12.76	0.669	7.18	7.62
10/11/2008	3:30:08	12.2	0.747	10.91	8.11	11.87	0.611	9.21	12.51	12.74	0.669	7.09	7.62
10/11/2008	3:45:08	12.17	0.747	11.32	8.1	11.83	0.611	9.22	12.31	12.72	0.669	7.27	7.62
10/11/2008	4:00:08	12.16	0.746	9.85	8.09	11.79	0.612	9.2	12.4	12.66	0.669	7.12	7.62
10/11/2008	4:15:08	12.11	0.747	10.43	8.08	11.75	0.613	9.22	12.29	12.69	0.668	6.8	7.61
10/11/2008	4:30:08	12.03	0.747	11.27	8.1	11.71	0.614	9.17	12.13	12.64	0.669	6.81	7.62
10/11/2008	4:45:08	12.06	0.746	11.35	8.1	11.66	0.615	9.2	12.32	12.63	0.669	6.91	7.62
10/11/2008	5:00:08	11.91	0.747	11.57	8.1	11.64	0.616	9.18	12.18	12.58	0.669	7.08	7.62
10/11/2008	5:15:08	11.85	0.747	11.02	8.1	11.59	0.618	9.18	12.38	12.53	0.669	7.51	7.63
10/11/2008	5:30:08	11.83	0.746	11.39	8.1	11.56	0.619	9.17	12.47	12.53	0.669	7.23	7.63
10/11/2008	5:45:08	11.76	0.746	11.02	8.1	11.53	0.62	9.17	12.45	12.47	0.669	7.24	7.63
10/11/2008	6:00:08	11.78	0.745	11.22	8.09	11.5	0.621	9.19	12.55	12.45	0.669	7.59	7.63
10/11/2008	6:15:08	11.78	0.746	11.43	8.09	11.47	0.622	9.18	12.49	12.41	0.67	7.57	7.62
10/11/2008	6:30:08	11.65	0.746	10.87	8.09	11.43	0.622	9.19	12.5	12.38	0.669	7.11	7.63
10/11/2008	6:45:08	11.66	0.745	11.28	8.08	11.39	0.624	9.16	12.87	12.35	0.67	7.29	7.63
10/11/2008	7:00:08	11.64	0.746	10.33	8.08	11.38	0.624	9.16	12.68	12.33	0.669	7.14	7.63
10/11/2008	7:15:08	11.59	0.745	10.84	8.08	11.35	0.626	9.16	12.5	12.3	0.67	7.4	7.63
10/11/2008	7:30:08	11.52	0.745	10.58	8.08	11.3	0.626	9.17	12.64	12.27	0.67	7.63	7.62
10/11/2008	7:45:08	11.48	0.745	11.28	8.09	11.27	0.627	9.17	12.66	12.24	0.67	7.35	7.62
10/11/2008	8:00:08	11.46	0.745	10.95	8.09	11.24	0.628	9.19	12.69	12.2	0.67	7.47	7.62
10/11/2008	8:15:08	11.38	0.746	11.26	8.07	11.22	0.629	9.2	12.76	12.17	0.67	7.51	7.62
10/11/2008	8:30:08	11.39	0.746	11.82	8.08	11.2	0.63	9.24	12.88	12.12	0.67	7.12	7.62
10/11/2008	8:45:08	11.37	0.745	11.22	8.09	11.18	0.63	9.27	13.11	12.12	0.669	7.52	7.62
10/11/2008	9:00:08	11.34	0.745	11.85	8.08	11.19	0.631	9.26	13.15	12.13	0.669	7.52	7.61
10/11/2008	9:15:08	11.3	0.745	11.29	8.09	11.2	0.632	9.31	13.2	12.07	0.67	7.31	7.6
10/11/2008	9:30:08	11.23	0.746	11.05	8.08	11.23	0.632	9.35	13.06	12.08	0.67	7.26	7.61
10/11/2008	9:45:08	11.28	0.745	10.89	8.09	11.28	0.633	9.39	13.13	12.08	0.669	7.29	7.61
10/11/2008	10:00:08	11.23	0.746	11.26	8.09	11.37	0.633	9.55	13.07	12.07	0.67	7.47	7.6
10/11/2008	10:15:08	11.23	0.745	11.78	8.09	11.41	0.633	9.58	12.65	12.04	0.67	7.11	7.6
10/11/2008	10:30:08	11.25	0.746	11.93	8.09	11.47	0.634	9.56	12.24	12.04	0.67	7.33	7.6
10/11/2008	10:45:08	11.28	0.745	12.22	8.09	11.54	0.635	9.58	12.37	12.08	0.67	7.28	7.6
10/11/2008	11:00:08	11.3	0.746	12.46	8.1	11.66	0.635	9.69	12.43	12.07	0.67	6.7	7.59
10/11/2008	11:15:08	11.37	0.745	11.62	8.1	11.76	0.635	9.76	12.65	12.12	0.67	7.1	7.6
10/11/2008	11:30:08	11.43	0.746	12.1	8.09	11.9	0.635	9.84	12.42	12.13	0.67	7.21	7.58
10/11/2008	11:45:08	11.48	0.746	11.79	8.1	12.01	0.635	9.88	11.88	12.12	0.67	6.94	7.58
10/11/2008	12:00:08	11.51	0.746	12.2	8.1	12.11	0.635	9.82	11.89	12.16	0.67	6.35	7.57
10/11/2008	12:15:08	11.58	0.745	12.39	8.11	12.22	0.635	9.88	11.88	12.19	0.671	6.4	7.58
10/11/2008	12:30:08	11.75	0.745	12.64	8.13	12.3	0.635	9.93	11.95	12.2	0.671	5.6	7.58
10/11/2008	12:45:08	11.91	0.745	12.37	8.17	12.42	0.635	9.99	11.89	12.22	0.672	5.44	7.57
10/11/2008	13:00:08	12.08	0.744	12.34	8.2	12.53	0.636	10.04	12.06	12.25	0.671	5.61	7.57
10/11/2008	13:15:08	12.25	0.744	12.79	8.22	12.67	0.636	10.13	12.08	12.27	0.672	6.34	7.58
10/11/2008	13:30:08	12.49	0.743	12.42	8.24	12.76	0.635	10.09	12.25	12.35	0.671	6.21	7.57
10/11/2008	13:45:08	12.74	0.743	13.03	8.26	12.84	0.636	10.18	12.32	12.38	0.67	6.56	7.58
10/11/2008	14:00:08	12.97	0.741	13	8.28	12.96	0.635	10.28	12.39	12.39	0.67	5.77	7.57
10/11/2008	14:15:08	13.14	0.741	13.35	8.29	13.02	0.635	10.22	12.48	12.42	0.67	4.66	7.57
10/11/2008	14:30:08	13.38	0.74	13.72	8.31	13.16	0.634	10.28	12.39	12.45	0.67	5.24	7.56

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/11/2008	14:45:08	13.56	0.74	14.01	8.33	13.17	0.634	10.24	12.29	12.48	0.67	4.94	7.55
10/11/2008	15:00:08	13.74	0.739	13.99	8.33	13.25	0.634	10.3	12.24	12.54	0.67	5.63	7.56
10/11/2008	15:15:08	13.87	0.74	14.02	8.35	13.31	0.634	10.37	12.04	12.74	0.671	6.03	7.56
10/11/2008	15:30:08	14.08	0.738	13.72	8.35	13.42	0.634	10.42	12.02	12.76	0.67	6.7	7.57
10/11/2008	15:45:08	14.28	0.738	13.13	8.37	13.39	0.633	10.45	12.06	12.71	0.67	6.79	7.57
10/11/2008	16:00:08	14.3	0.738	13.95	8.37	13.39	0.633	10.39	12.29	12.76	0.67	6.34	7.59
10/11/2008	16:15:08	14.28	0.738	14.26	8.38	13.34	0.633	10.32	12.25	12.81	0.67	6.92	7.59
10/11/2008	16:30:08	14.29	0.738	14.22	8.37	13.29	0.632	10.23	12.31	12.8	0.67	6.97	7.59
10/11/2008	16:45:08	14.39	0.737	13.4	8.38	13.25	0.632	10.23	12.27	12.87	0.67	6.3	7.58
10/11/2008	17:00:08	14.34	0.737	13.68	8.38	13.22	0.632	10.22	12.3	12.87	0.67	5.81	7.58
10/11/2008	17:15:08	14.54	0.736	13.58	8.39	13.24	0.631	10.22	12.29	12.88	0.671	6.24	7.58
10/11/2008	17:30:08	14.45	0.737	13.62	8.38	13.25	0.631	10.18	12.29	12.89	0.67	5.98	7.59
10/11/2008	17:45:08	14.42	0.737	13.46	8.36	13.24	0.63	10.15	12.33	12.91	0.671	5.93	7.58
10/11/2008	18:00:08	14.41	0.737	13.49	8.36	13.25	0.63	10.09	12.37	12.97	0.671	6.45	7.58
10/11/2008	18:15:08	14.38	0.736	13.18	8.36	13.24	0.63	10.03	12.17	13.01	0.67	6.14	7.58
10/11/2008	18:30:08	14.33	0.737	13.18	8.37	13.23	0.629	9.92	12.12	12.97	0.671	6.54	7.59
10/11/2008	18:45:08	14.29	0.736	12.83	8.36	13.23	0.629	9.85	12.19	13.06	0.67	6.35	7.59
10/11/2008	19:00:08	14.25	0.737	13.33	8.34	13.24	0.63	9.81	12.34	13.05	0.671	6.37	7.58
10/11/2008	19:15:08	14.24	0.737	13.66	8.33	13.24	0.629	9.72	12.46	13.05	0.671	5.94	7.58
10/11/2008	19:30:08	14.2	0.738	13.26	8.32	13.25	0.629	9.69	12.49	13.03	0.671	5.73	7.58
10/11/2008	19:45:08	14.17	0.74	13.21	8.31	13.26	0.629	9.64	12.47	13.05	0.67	5.7	7.58
10/11/2008	20:00:08	14.11	0.741	12.03	8.27	13.26	0.629	9.61	12.45	13.06	0.671	5.24	7.58
10/11/2008	20:15:08	14.06	0.742	11.86	8.26	13.27	0.629	9.58	12.52	13.09	0.671	5.47	7.57
10/11/2008	20:30:08	14.01	0.743	12.15	8.24	13.26	0.629	9.55	12.54	13.09	0.671	5.1	7.56
10/11/2008	20:45:08	13.96	0.743	12.19	8.23	13.26	0.629	9.51	12.54	13.1	0.671	5.13	7.56
10/11/2008	21:00:08	13.91	0.744	12.41	8.22	13.25	0.629	9.48	12.54	13.11	0.671	4.85	7.56
10/11/2008	21:15:08	13.86	0.745	12.52	8.21	13.25	0.629	9.46	12.48	13.11	0.671	4.69	7.56
10/11/2008	21:30:08	13.81	0.744	12.38	8.2	13.24	0.629	9.45	12.53	13.13	0.671	4.84	7.56
10/11/2008	21:45:08	13.77	0.745	11.66	8.19	13.22	0.629	9.43	12.42	13.13	0.671	4.76	7.56
10/11/2008	22:00:08	13.72	0.745	11.25	8.18	13.2	0.63	9.39	12.16	13.18	0.671	5.08	7.56
10/11/2008	22:15:08	13.68	0.745	11.58	8.17	13.18	0.63	9.34	12.23	13.17	0.671	5.05	7.56
10/11/2008	22:30:08	13.62	0.746	11.68	8.16	13.17	0.63	9.33	12.27	13.16	0.671	5.46	7.56
10/11/2008	22:45:08	13.59	0.746	10.84	8.15	13.14	0.63	9.3	12.23	13.15	0.671	5.53	7.56
10/11/2008	23:00:08	13.55	0.746	11.28	8.14	13.12	0.63	9.32	12.31	13.16	0.671	5.21	7.56
10/11/2008	23:15:08	13.51	0.747	11.07	8.15	13.09	0.63	9.3	12.34	13.16	0.671	4.99	7.55
10/11/2008	23:30:08	13.46	0.746	11.22	8.14	13.06	0.63	9.27	12.35	13.15	0.671	4.87	7.54
10/11/2008	23:45:08	13.43	0.746	11.5	8.14	13.03	0.63	9.25	12.35	13.15	0.671	4.88	7.54
10/12/2008	0:00:08	13.39	0.747	10.88	8.13	13	0.631	9.23	12.35	13.19	0.671	4.92	7.52
10/12/2008	0:15:08	13.37	0.746	11.82	8.12	12.96	0.631	9.22	12.34	13.27	0.671	5.81	7.57
10/12/2008	0:30:08	13.31	0.747	10.42	8.12	12.93	0.631	9.21	12.34	13.21	0.671	6.57	7.57
10/12/2008	0:45:08	13.26	0.748	11.43	8.12	12.9	0.631	9.19	12.32	13.19	0.671	5.86	7.57
10/12/2008	1:00:08	13.22	0.747	11.6	8.13	12.86	0.631	9.17	12.33	13.18	0.671	5.51	7.55
10/12/2008	1:15:08	13.18	0.747	11.74	8.12	12.81	0.632	9.17	12.33	13.18	0.671	5.58	7.53
10/12/2008	1:30:08	13.17	0.747	11.87	8.12	12.77	0.632	9.13	12.33	13.19	0.671	4.97	7.53
10/12/2008	1:45:08	13.12	0.748	11.17	8.12	12.73	0.632	9.16	12.33	13.2	0.671	5.09	7.53
10/12/2008	2:00:08	12.95	0.748	11.64	8.12	12.69	0.632	9.15	12.3	13.19	0.671	5.34	7.53
10/12/2008	2:15:08	12.97	0.748	11.07	8.12	12.65	0.632	9.16	12.3	13.18	0.671	5.12	7.53
10/12/2008	2:30:08	12.97	0.747	10.84	8.11	12.62	0.632	9.11	12.32	13.19	0.671	5.46	7.53
10/12/2008	2:45:08	12.93	0.748	11.1	8.11	12.57	0.633	9.12	12.26	13.18	0.672	4.5	7.52
10/12/2008	3:00:08	12.92	0.748	11.25	8.1	12.53	0.633	9.13	12.24	13.18	0.672	5.49	7.52
10/12/2008	3:15:08	12.86	0.748	11.47	8.09	12.5	0.633	9.09	12.21	13.19	0.671	5.74	7.53
10/12/2008	3:30:08	12.86	0.748	10.94	8.1	12.46	0.633	9.1	12.16	13.17	0.671	5.4	7.52
10/12/2008	3:45:08	12.8	0.749	10.84	8.1	12.43	0.634	9.08	12.09	13.16	0.671	5.3	7.51
10/12/2008	4:00:08	12.75	0.749	11.4	8.09	12.41	0.634	9.07	12.04	13.15	0.671	5.96	7.51
10/12/2008	4:15:08	12.69	0.75	11.63	8.09	12.38	0.634	9.06	12.03	13.14	0.67	5.76	7.54
10/12/2008	4:30:08	12.66	0.75	11.73	8.09	12.35	0.634	9.04	11.98	13.12	0.67	5.11	7.54
10/12/2008	4:45:08	12.63	0.751	11.9	8.09	12.32	0.635	9.03	11.99	13.1	0.67	4.53	7.5
10/12/2008	5:00:08	12.64	0.75	11.19	8.09	12.29	0.635	9.03	11.95	13.07	0.67	5.42	7.49
10/12/2008	5:15:08	12.58	0.751	11.39	8.09	12.26	0.635	9.03	11.93	13.02	0.67	5.43	7.5
10/12/2008	5:30:08	12.56	0.751	10.97	8.08	12.24	0.636	9	11.92	12.98	0.67	6.55	7.55
10/12/2008	5:45:08	12.48	0.751	10.86	8.08	12.21	0.636	9.01	11.9	12.96	0.67	6.14	7.52

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/12/2008	6:00:08	12.47	0.751	11.15	8.07	12.18	0.636	8.98	11.91	12.95	0.67	6.63	7.53
10/12/2008	6:15:08	12.46	0.751	11.19	8.07	12.15	0.637	9.01	11.92	12.92	0.67	6.5	7.54
10/12/2008	6:30:08	12.4	0.751	11.6	8.08	12.12	0.637	9.01	11.96	12.89	0.67	6.74	7.52
10/12/2008	6:45:08	12.37	0.752	10.66	8.07	12.1	0.637	9.01	11.95	12.89	0.67	6.31	7.55
10/12/2008	7:00:08	12.33	0.751	10.67	8.07	12.06	0.638	8.99	11.96	12.83	0.67	6.45	7.57
10/12/2008	7:15:08	12.28	0.751	10.52	8.07	12.03	0.638	9	11.85	12.8	0.67	7.41	7.58
10/12/2008	7:30:08	12.25	0.75	10.45	8.06	12	0.638	9.01	11.85	12.75	0.67	7.09	7.59
10/12/2008	7:45:08	12.27	0.75	10.01	8.06	11.97	0.639	9	11.88	12.74	0.67	7.27	7.59
10/12/2008	8:00:08	12.21	0.75	10.37	8.06	11.95	0.639	9	11.86	12.71	0.67	7.1	7.59
10/12/2008	8:15:08	12.16	0.751	10.82	8.06	11.93	0.639	9	11.91	12.65	0.67	7.18	7.57
10/12/2008	8:30:08	12.21	0.75	10.46	8.06	11.92	0.64	9.06	11.93	12.69	0.67	7.09	7.6
10/12/2008	8:45:08	12.19	0.75	10.61	8.06	11.92	0.64	9.07	11.94	12.63	0.669	7.19	7.61
10/12/2008	9:00:08	12.17	0.752	10.86	8.07	11.94	0.64	9.11	11.91	12.62	0.669	7.11	7.59
10/12/2008	9:15:08	12.15	0.752	11.25	8.07	11.96	0.64	9.13	11.85	12.59	0.669	7.42	7.59
10/12/2008	9:30:08	12.14	0.752	10.81	8.06	12	0.641	9.13	11.87	12.57	0.669	7.27	7.61
10/12/2008	9:45:08	12.11	0.752	10.82	8.04	12.05	0.641	9.19	11.68	12.54	0.669	7.55	7.61
10/12/2008	10:00:08	12.11	0.752	10.45	8.03	12.14	0.641	9.28	11.58	12.54	0.669	7.37	7.61
10/12/2008	10:15:08	12.12	0.752	10.13	8.03	12.21	0.641	9.4	11.66	12.54	0.669	7.37	7.6
10/12/2008	10:30:08	12.12	0.752	10.34	8.04	12.26	0.642	9.37	11.65	12.54	0.669	6.62	7.6
10/12/2008	10:45:08	12.15	0.753	10.76	8.04	12.33	0.642	9.39	11.67	12.52	0.669	6.98	7.59
10/12/2008	11:00:08	12.16	0.753	11.35	8.05	12.46	0.642	9.55	11.67	12.53	0.669	7.17	7.59
10/12/2008	11:15:08	12.2	0.753	11.65	8.06	12.57	0.642	9.62	11.63	12.49	0.669	7.15	7.6
10/12/2008	11:30:08	12.26	0.753	10.98	8.06	12.7	0.642	9.63	11.63	12.52	0.669	6.7	7.6
10/12/2008	11:45:08	12.3	0.753	10.8	8.05	12.82	0.642	9.65	11.64	12.53	0.669	6.13	7.59
10/12/2008	12:00:08	12.35	0.753	10.86	8.04	12.93	0.642	9.71	11.64	12.55	0.669	6.25	7.58
10/12/2008	12:15:08	12.44	0.753	11.42	8.05	13	0.643	9.74	11.66	12.58	0.669	6.08	7.57
10/12/2008	12:30:08	12.57	0.753	11.25	8.08	13.09	0.643	9.77	11.67	12.58	0.669	6.25	7.58
10/12/2008	12:45:08	12.7	0.752	12.07	8.11	13.19	0.643	9.83	11.63	12.61	0.669	6.24	7.58
10/12/2008	13:00:08	12.83	0.752	12.32	8.12	13.28	0.644	9.86	11.6	12.63	0.669	6.63	7.58
10/12/2008	13:15:08	13.03	0.751	12.4	8.15	13.39	0.644	9.9	8.72	12.68	0.669	6.68	7.58
10/12/2008	13:30:08	13.31	0.75	11.84	8.18	13.5	0.644	10.05	8.27	12.72	0.67	6.71	7.57
10/12/2008	13:45:08	13.43	0.751	12.32	8.2	13.63	0.644	10.12	8.23	12.75	0.67	6.61	7.58
10/12/2008	14:00:08	13.65	0.75	12.05	8.22	13.75	0.645	10.18	8.21	12.78	0.669	6.41	7.57
10/12/2008	14:15:08	13.89	0.749	12.29	8.25	13.85	0.645	10.18	8.2	12.8	0.67	6.28	7.57
10/12/2008	14:30:08	14.21	0.749	12.28	8.29	13.96	0.645	10.16	12.07	12.83	0.67	6.03	7.57
10/12/2008	14:45:08	14.45	0.747	12.79	8.29	14	0.645	10.17	11.9	12.91	0.67	6.18	7.57
10/12/2008	15:00:08	14.53	0.748	12.18	8.3	14.06	0.646	10.19	11.83	12.93	0.67	5.81	7.56
10/12/2008	15:15:08	14.72	0.748	12.22	8.31	14.13	0.645	10.2	11.78	13.07	0.671	6.35	7.57
10/12/2008	15:30:08	14.96	0.745	12.47	8.31	14.18	0.646	10.22	11.74	13.15	0.67	6.64	7.58
10/12/2008	15:45:08	14.99	0.745	13.15	8.32	14.22	0.646	10.17	11.7	13.13	0.67	6.5	7.58
10/12/2008	16:00:08	15.19	0.744	13.24	8.31	14.23	0.646	10.13	11.7	13.13	0.67	6.78	7.58
10/12/2008	16:15:08	15.15	0.746	13.22	8.31	14.23	0.647	10.05	11.68	13.14	0.67	6.32	7.57
10/12/2008	16:30:08	15.26	0.745	13.31	8.31	14.21	0.647	10.01	11.65	13.67	0.666	4.87	7.55
10/12/2008	16:45:08	15.29	0.745	12.66	8.32	14.19	0.647	9.96	11.65	13.17	0.67	6.85	7.56
10/12/2008	17:00:08	15.38	0.744	12.56	8.32	14.16	0.647	9.93	11.64	13.21	0.67	6.49	7.56
10/12/2008	17:15:08	15.38	0.744	13.2	8.31	14.13	0.647	9.82	11.67	13.18	0.67	5.68	7.55
10/12/2008	17:30:08	15.34	0.743	13.07	8.3	14.07	0.648	9.75	11.67	13.17	0.67	5.97	7.55
10/12/2008	17:45:08	15.28	0.744	12.88	8.29	14.04	0.648	9.66	11.66	13.15	0.67	5.78	7.55
10/12/2008	18:00:08	15.25	0.744	12.96	8.27	14	0.648	9.61	11.66	13.16	0.67	5.8	7.54
10/12/2008	18:15:08	15.2	0.744	12.2	8.26	13.96	0.648	9.56	11.66	13.19	0.67	5.49	7.54
10/12/2008	18:30:08	15.17	0.744	12.61	8.24	13.91	0.648	9.5	11.67	13.21	0.67	5.45	7.54
10/12/2008	18:45:08	15.11	0.744	11.75	8.23	13.89	0.648	9.44	11.68	13.23	0.67	5.33	7.53
10/12/2008	19:00:08	15.04	0.745	12.61	8.21	13.87	0.647	9.39	11.68	13.26	0.67	5.15	7.54
10/12/2008	19:15:08	15	0.745	11.42	8.2	13.83	0.647	9.37	11.73	13.27	0.67	5.59	7.54
10/12/2008	19:30:08	14.95	0.746	11.2	8.19	13.81	0.647	9.32	11.76	13.27	0.67	5.31	7.54
10/12/2008	19:45:08	14.89	0.746	11.15	8.18	13.78	0.647	9.27	11.78	13.28	0.67	5.05	7.53
10/12/2008	20:00:08	14.81	0.747	11.6	8.17	13.76	0.647	9.24	11.76	13.31	0.67	4.84	7.52
10/12/2008	20:15:08	14.75	0.747	11.06	8.16	13.74	0.647	9.23	11.74	13.32	0.671	4.38	7.51
10/12/2008	20:30:08	14.67	0.747	11.58	8.15	13.72	0.646	9.22	11.75	13.34	0.67	4.27	7.51
10/12/2008	20:45:08	14.61	0.747	11.71	8.14	13.7	0.647	9.15	11.75	13.34	0.671	4.33	7.5
10/12/2008	21:00:08	14.54	0.747	11.89	8.14	13.68	0.647	9.11	11.75	13.34	0.671	4.33	7.5

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/12/2008	21:15:08	14.48	0.747	11.99	8.13	13.66	0.646	9.11	11.76	13.35	0.671	3.93	7.5
10/12/2008	21:30:08	14.4	0.748	12.08	8.12	13.64	0.646	9.07	11.77	13.37	0.671	4.59	7.49
10/12/2008	21:45:08	14.34	0.748	11.33	8.12	13.62	0.646	9.09	11.78	13.36	0.671	4.89	7.5
10/12/2008	22:00:08	14.28	0.748	11.64	8.11	13.59	0.646	9.06	11.79	13.38	0.671	4.31	7.5
10/12/2008	22:15:08	14.22	0.748	11.79	8.11	13.56	0.646	9.04	11.81	13.4	0.67	3.93	7.5
10/12/2008	22:30:08	14.17	0.748	11.19	8.1	13.54	0.646	9.03	11.79	13.38	0.671	3.79	7.49
10/12/2008	22:45:08	14.1	0.748	11.5	8.09	13.51	0.646	8.98	11.78	13.37	0.671	3.74	7.49
10/12/2008	23:00:08	14.05	0.748	11.63	8.09	13.48	0.646	8.93	11.78	13.36	0.671	3.74	7.49
10/12/2008	23:15:08	14	0.748	11.75	8.08	13.45	0.646	8.93	8.27	13.36	0.671	3.7	7.48
10/12/2008	23:30:08	13.94	0.748	11.13	8.08	13.41	0.646	8.92	8.17	13.37	0.671	3.84	7.48
10/12/2008	23:45:08	13.9	0.749	10.85	8.07	13.38	0.646	8.89	8.14	13.38	0.671	3.56	7.49
10/13/2008	0:00:08	13.84	0.749	10.63	8.07	13.34	0.646	8.89	8.12	13.38	0.671	3.31	7.47
10/13/2008	0:15:08	13.77	0.749	11.05	8.07	13.3	0.646	8.88	8.1	13.37	0.671	3.19	7.46
10/13/2008	0:30:08	13.72	0.749	11.19	8.06	13.27	0.646	8.84	8.09	13.43	0.672	3.71	7.47
10/13/2008	0:45:08	13.68	0.749	11.38	8.06	13.23	0.647	8.85	8.08	13.41	0.671	4.5	7.49
10/13/2008	1:00:08	13.62	0.75	11.48	8.05	13.19	0.647	8.84	8.08	13.4	0.671	4.3	7.48
10/13/2008	1:15:08	13.56	0.75	11.57	8.05	13.16	0.646	8.85	8.07	13.4	0.671	4.22	7.48
10/13/2008	1:30:08	13.52	0.75	10.94	8.05	13.12	0.647	8.86	8.07	13.46	0.671	4.06	7.49
10/13/2008	1:45:08	13.49	0.751	10.61	8.05	13.09	0.647	8.83	8.06	13.44	0.671	4.01	7.5
10/13/2008	2:00:08	13.44	0.751	10.41	8.05	13.05	0.647	8.83	8.06	13.42	0.671	3.62	7.48
10/13/2008	2:15:08	13.4	0.752	10.88	8.04	13.01	0.647	8.82	8.06	13.43	0.672	4.27	7.49
10/13/2008	2:30:08	13.34	0.752	11.05	8.04	12.99	0.647	8.79	8.05	13.44	0.672	5	7.48
10/13/2008	2:45:08	13.3	0.753	10.48	8.04	12.97	0.647	8.8	8.05	13.43	0.672	5.25	7.48
10/13/2008	3:00:08	13.26	0.754	10.93	8.04	12.94	0.647	8.82	8.05	13.44	0.672	4.55	7.49
10/13/2008	3:15:08	13.24	0.754	10.47	8.04	12.91	0.648	8.8	8.04	13.43	0.672	4.2	7.49
10/13/2008	3:30:08	13.21	0.754	10.93	8.04	12.88	0.647	8.81	8.04	13.43	0.672	4.26	7.48
10/13/2008	3:45:08	13.16	0.755	10.43	8.04	12.87	0.647	8.79	8.04	13.43	0.672	4.3	7.48
10/13/2008	4:00:08	13.13	0.756	10.31	8.04	12.84	0.647	8.77	8.04	13.42	0.672	4.13	7.47
10/13/2008	4:15:08	13.1	0.756	10.3	8.04	12.82	0.647	8.79	8.03	13.41	0.672	3.96	7.47
10/13/2008	4:30:08	13.05	0.757	10.35	8.04	12.79	0.648	8.79	8.03	13.4	0.673	4.38	7.49
10/13/2008	4:45:08	13.02	0.758	10.34	8.04	12.77	0.648	8.77	8.03	13.37	0.673	5.64	7.53
10/13/2008	5:00:08	12.99	0.758	10.35	8.03	12.74	0.648	8.79	8.03	13.36	0.673	5.67	7.54
10/13/2008	5:15:08	12.98	0.759	10.29	8.03	12.71	0.647	8.78	8.03	13.36	0.673	5.47	7.54
10/13/2008	5:30:08	12.92	0.76	10.91	8.04	12.68	0.648	8.78	8.03	13.34	0.673	5.7	7.53
10/13/2008	5:45:08	12.89	0.76	11.06	8.03	12.64	0.648	8.8	12.37	13.32	0.673	5.68	7.54
10/13/2008	6:00:08	12.87	0.761	10.42	8.03	12.62	0.648	8.79	12.25	13.3	0.673	6.35	7.55
10/13/2008	6:15:08	12.83	0.762	10.95	8.03	12.59	0.648	8.8	12.15	13.28	0.674	6.56	7.55
10/13/2008	6:30:08	12.8	0.762	10.4	8.03	12.56	0.648	8.81	12.1	13.27	0.674	5.66	7.56
10/13/2008	6:45:08	12.8	0.762	10.35	8.03	12.53	0.648	8.77	12.05	13.24	0.674	6.07	7.56
10/13/2008	7:00:08	12.76	0.762	10.32	8.03	12.49	0.648	8.78	12	13.23	0.675	5.91	7.55
10/13/2008	7:15:08	12.7	0.763	10.36	8.03	12.46	0.649	8.77	11.98	13.2	0.675	6.68	7.54
10/13/2008	7:30:08	12.65	0.763	10.91	8.03	12.42	0.649	8.8	11.97	13.17	0.675	6.97	7.56
10/13/2008	7:45:08	12.64	0.764	11.13	8.03	12.4	0.649	8.8	11.97	13.17	0.675	6.77	7.57
10/13/2008	8:00:08	12.6	0.764	11.33	8.03	12.38	0.649	8.78	11.93	13.13	0.674	6.71	7.58
10/13/2008	8:15:08	12.62	0.764	11.46	8.02	12.37	0.649	8.81	11.94	13.09	0.675	7.12	7.59
10/13/2008	8:30:08	12.56	0.764	10.91	8.03	12.36	0.649	8.84	11.92	13.09	0.675	7.07	7.58
10/13/2008	8:45:08	12.59	0.765	11.28	8.03	12.36	0.649	8.89	11.89	13.07	0.675	7.02	7.59
10/13/2008	9:00:08	12.62	0.764	11.37	8.02	12.39	0.649	8.96	11.89	13.05	0.675	7.11	7.58
10/13/2008	9:15:08	12.64	0.764	11.49	8.02	12.43	0.649	9.01	11.89	13.04	0.675	6.83	7.57
10/13/2008	9:30:08	12.63	0.764	10.97	8.02	12.48	0.649	9.07	11.89	13.04	0.675	6.9	7.57
10/13/2008	9:45:08	12.63	0.764	10.21	8.02	12.54	0.65	9.16	11.89	13.02	0.675	7.05	7.57
10/13/2008	10:00:08	12.62	0.764	10.91	8.01	12.63	0.65	9.32	11.91	13	0.675	6.99	7.57
10/13/2008	10:15:08	12.66	0.764	11.54	8.01	12.7	0.649	9.45	11.85	12.99	0.675	6.91	7.57
10/13/2008	10:30:08	12.7	0.765	11.06	8.01	12.76	0.649	9.52	11.84	12.97	0.675	6.95	7.57
10/13/2008	10:45:08	12.73	0.765	11.48	8.02	12.84	0.649	9.55	11.83	12.97	0.675	7.07	7.57
10/13/2008	11:00:08	12.76	0.765	11.12	8.03	12.96	0.65	9.75	11.81	12.97	0.675	6.8	7.57
10/13/2008	11:15:08	12.81	0.765	11.68	8.03	13.06	0.649	9.84	11.79	12.99	0.675	6.89	7.58
10/13/2008	11:30:08	12.88	0.765	11.08	8.04	13.14	0.649	9.93	11.77	13	0.675	6.89	7.58
10/13/2008	11:45:08	12.95	0.765	11.28	8.05	13.25	0.649	9.94	11.73	13.01	0.675	6.73	7.58
10/13/2008	12:00:08	13.03	0.765	11.9	8.06	13.45	0.649	10.1	11.71	13.03	0.675	5.37	7.57
10/13/2008	12:15:08	13.11	0.766	11.5	8.08	13.56	0.649	10.16	11.68	13.04	0.675	5.07	7.55

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/13/2008	12:30:08	13.24	0.765	11.49	8.12	13.64	0.649	10.18	11.57	13.05	0.676	4.76	7.54
10/13/2008	12:45:08	13.35	0.765	11.86	8.14	13.74	0.649	10.15	8.45	13.07	0.676	5.44	7.54
10/13/2008	13:00:08	13.47	0.765	12.06	8.16	13.82	0.649	10.17	8.31	13.1	0.676	5.36	7.53
10/13/2008	13:15:08	13.63	0.764	12.33	8.2	13.9	0.649	10.26	8.26	13.13	0.676	5.22	7.53
10/13/2008	13:30:08	13.83	0.764	12.55	8.22	14.04	0.649	10.36	8.24	13.15	0.676	5.07	7.52
10/13/2008	13:45:08	13.98	0.763	13.1	8.25	14.12	0.649	10.43	8.23	13.16	0.676	5.83	7.53
10/13/2008	14:00:08	14.22	0.762	12.64	8.28	14.18	0.65	10.43	8.22	13.17	0.676	5.58	7.55
10/13/2008	14:15:08	14.31	0.763	13.47	8.31	14.26	0.65	10.48	8.22	13.19	0.676	5.23	7.54
10/13/2008	14:30:08	14.55	0.761	14.08	8.33	14.36	0.65	10.55	12.34	13.23	0.676	4.97	7.52
10/13/2008	14:45:08	14.75	0.76	13.9	8.35	14.45	0.65	10.59	11.94	13.26	0.676	5.27	7.52
10/13/2008	15:00:08	14.98	0.758	13.8	8.38	14.53	0.65	10.64	11.75	13.31	0.676	5.21	7.53
10/13/2008	15:15:08	15.09	0.756	13.91	8.4	14.61	0.65	10.63	11.58	13.39	0.676	4.96	7.54
10/13/2008	15:30:08	15.23	0.756	14.05	8.4	14.65	0.651	10.6	11.52	13.42	0.676	5.88	7.55
10/13/2008	15:45:08	15.38	0.754	14.15	8.41	14.69	0.652	10.57	11.44	13.41	0.676	5.57	7.56
10/13/2008	16:00:08	15.47	0.753	14.35	8.42	14.72	0.652	10.53	11.38	13.42	0.676	5.43	7.55
10/13/2008	16:15:08	15.66	0.752	14.23	8.42	14.74	0.652	10.46	9.79	13.42	0.676	5.54	7.55
10/13/2008	16:30:08	15.71	0.752	14.14	8.43	14.73	0.653	10.43	8.33	13.42	0.676	5.08	7.55
10/13/2008	16:45:08	15.85	0.75	14.18	8.43	14.73	0.653	10.3	8.26	13.4	0.676	4.96	7.54
10/13/2008	17:00:08	15.72	0.752	13.82	8.43	14.72	0.654	10.23	8.23	13.4	0.676	5.27	7.53
10/13/2008	17:15:08	15.76	0.751	13.53	8.41	14.7	0.654	10.13	8.21	13.41	0.676	5.15	7.54
10/13/2008	17:30:08	15.64	0.752	13.37	8.42	14.68	0.655	10.06	8.19	13.41	0.676	5.35	7.54
10/13/2008	17:45:08	15.68	0.751	13.69	8.4	14.63	0.656	9.97	8.18	13.41	0.676	5.12	7.54
10/13/2008	18:00:08	15.65	0.751	13.56	8.4	14.6	0.656	9.86	8.17	13.43	0.676	5.03	7.53
10/13/2008	18:15:08	15.64	0.751	13.5	8.39	14.55	0.657	9.73	8.15	13.44	0.676	4.77	7.53
10/13/2008	18:30:08	15.6	0.751	13.1	8.39	14.53	0.657	9.62	8.13	13.47	0.676	4.82	7.52
10/13/2008	18:45:08	15.59	0.751	13.01	8.38	14.5	0.657	9.54	8.13	13.48	0.676	4.39	7.53
10/13/2008	19:00:08	15.54	0.751	12.83	8.34	14.45	0.657	9.42	8.12	13.47	0.676	4.02	7.52
10/13/2008	19:15:08	15.51	0.751	12.61	8.31	14.41	0.658	9.35	8.11	13.47	0.676	3.61	7.51
10/13/2008	19:30:08	15.48	0.752	12.64	8.27	14.38	0.657	9.28	8.1	13.47	0.676	3.65	7.5
10/13/2008	19:45:08	15.47	0.752	11.46	8.24	14.34	0.657	9.25	8.1	13.47	0.676	3.75	7.49
10/13/2008	20:00:08	15.43	0.753	12.04	8.22	14.29	0.657	9.19	8.09	13.49	0.676	3.81	7.49
10/13/2008	20:15:08	15.38	0.753	12.18	8.22	14.27	0.657	9.15	8.08	13.49	0.676	3.85	7.49
10/13/2008	20:30:08	15.32	0.753	12.26	8.2	14.23	0.657	9.09	8.08	13.56	0.678	4.18	7.49
10/13/2008	20:45:08	15.25	0.754	12.37	8.2	14.21	0.657	9.05	8.08	13.57	0.678	5.27	7.51
10/13/2008	21:00:08	15.19	0.753	12.39	8.18	14.19	0.657	9.03	8.07	13.59	0.678	5.07	7.51
10/13/2008	21:15:08	15.12	0.754	12.4	8.18	14.17	0.657	9.01	8.07	13.55	0.677	5.97	7.51
10/13/2008	21:30:08	15.06	0.754	12.35	8.17	14.15	0.657	8.96	8.07	13.56	0.677	5.42	7.52
10/13/2008	21:45:08	15	0.754	11.71	8.16	14.13	0.657	8.95	8.07	13.57	0.677	4.97	7.51
10/13/2008	22:00:08	14.94	0.754	11.95	8.15	14.11	0.656	8.93	8.06	13.6	0.677	5.58	7.51
10/13/2008	22:15:08	14.89	0.755	12.07	8.15	14.1	0.657	8.91	8.06	13.6	0.677	5.84	7.51
10/13/2008	22:30:08	14.85	0.754	12.02	8.14	14.08	0.656	8.88	8.06	13.59	0.677	5.63	7.52
10/13/2008	22:45:08	14.79	0.755	12.05	8.13	14.06	0.657	8.87	8.05	13.62	0.677	5.41	7.52
10/13/2008	23:00:08	14.73	0.754	12.04	8.12	14.04	0.656	8.83	8.05	13.63	0.677	4.6	7.51
10/13/2008	23:15:08	14.68	0.754	12.02	8.11	14.01	0.656	8.82	8.05	13.72	0.677	5.3	7.51
10/13/2008	23:30:08	14.64	0.754	11.37	8.1	14	0.656	8.81	8.05	13.7	0.678	5.15	7.51
10/13/2008	23:45:08	14.59	0.755	11.6	8.1	13.98	0.656	8.78	8.04	13.76	0.678	5.39	7.51
10/14/2008	0:00:08	14.54	0.755	11.16	8.1	13.95	0.656	8.74	8.04	13.73	0.678	5.64	7.51
10/14/2008	0:15:08	14.5	0.755	11.41	8.09	13.94	0.656	8.77	8.04	13.73	0.679	5.03	7.5
10/14/2008	0:30:08	14.45	0.755	11.51	8.08	13.92	0.656	8.73	8.04	13.73	0.678	4.97	7.49
10/14/2008	0:45:08	14.4	0.755	11.01	8.08	13.9	0.656	8.72	8.03	13.75	0.678	5.21	7.49
10/14/2008	1:00:08	14.37	0.755	11.24	8.07	13.88	0.656	8.68	8.03	13.76	0.678	5.2	7.49
10/14/2008	1:15:08	14.35	0.756	11.29	8.07	13.86	0.656	8.66	8.03	13.77	0.679	5.2	7.49
10/14/2008	1:30:08	14.3	0.756	11.35	8.06	13.84	0.656	8.66	8.03	13.74	0.679	4.78	7.49
10/14/2008	1:45:08	14.27	0.756	11.37	8.06	13.82	0.656	8.62	8.02	13.77	0.679	4.85	7.49
10/14/2008	2:00:08	14.25	0.756	10.8	8.05	13.81	0.656	8.64	8.02	13.74	0.679	4.14	7.49
10/14/2008	2:15:08	14.21	0.757	10.6	8.05	13.8	0.656	8.62	8.02	13.82	0.679	4.6	7.48
10/14/2008	2:30:08	14.18	0.756	10.4	8.05	13.79	0.656	8.6	8.02	13.8	0.68	5.04	7.48
10/14/2008	2:45:08	14.17	0.757	10.79	8.04	13.78	0.656	8.57	8.01	13.81	0.679	5.02	7.49
10/14/2008	3:00:08	14.14	0.757	10.88	8.04	13.77	0.656	8.57	8.01	13.8	0.679	5.3	7.49
10/14/2008	3:15:08	14.13	0.757	10.36	8.03	13.76	0.656	8.56	8.01	13.78	0.68	5.8	7.49
10/14/2008	3:30:08	14.11	0.757	10.76	8.03	13.76	0.656	8.55	8.01	13.8	0.68	5.13	7.49

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/14/2008	3:45:08	14.1	0.758	10.26	8.03	13.75	0.656	8.54	8	13.8	0.68	5.52	7.49
10/14/2008	4:00:08	14.08	0.758	10.1	8.02	13.75	0.656	8.53	8	13.8	0.68	5.47	7.49
10/14/2008	4:15:08	14.08	0.758	10.01	8.02	13.75	0.656	8.54	8	13.8	0.68	4.88	7.48
10/14/2008	4:30:08	14.08	0.758	9.84	8.02	13.75	0.656	8.53	8	13.81	0.68	4.98	7.47
10/14/2008	4:45:08	14.08	0.758	9.83	8.01	13.75	0.656	8.49	8	13.83	0.681	5.09	7.47
10/14/2008	5:00:08	14.07	0.758	9.81	8.01	13.75	0.656	8.51	8	13.82	0.683	4.33	7.45
10/14/2008	5:15:08	14.05	0.759	9.81	8.01	13.75	0.656	8.5	8	13.81	0.684	4.32	7.46
10/14/2008	5:30:08	14.04	0.759	10.42	8.01	13.74	0.656	8.5	8	13.81	0.684	4.85	7.46
10/14/2008	5:45:08	14.03	0.759	10.61	8.01	13.74	0.656	8.48	8	13.81	0.684	5.58	7.46
10/14/2008	6:00:08	14.02	0.759	9.99	8.01	13.73	0.656	8.49	8	13.81	0.684	5.3	7.46
10/14/2008	6:15:08	14.01	0.76	9.7	8.01	13.72	0.656	8.5	8	13.8	0.684	5.63	7.47
10/14/2008	6:30:08	13.99	0.76	10.45	8.01	13.72	0.656	8.49	7.99	13.79	0.684	5.41	7.47
10/14/2008	6:45:08	13.99	0.76	9.79	8.01	13.71	0.656	8.46	8	13.77	0.684	4.97	7.47
10/14/2008	7:00:08	13.98	0.761	9.79	8	13.7	0.657	8.46	7.99	13.76	0.684	4.65	7.48
10/14/2008	7:15:08	13.97	0.761	10.43	8	13.69	0.657	8.42	7.99	13.76	0.684	4.45	7.49
10/14/2008	7:30:08	13.96	0.76	10.65	8	13.69	0.657	8.43	7.99	13.76	0.684	4.09	7.49
10/14/2008	7:45:08	13.96	0.761	9.98	8	13.68	0.657	8.45	7.99	13.76	0.684	4.68	7.49
10/14/2008	8:00:08	13.96	0.761	10.48	8	13.67	0.657	8.46	7.99	13.76	0.684	4.41	7.48
10/14/2008	8:15:08	13.95	0.761	10.56	8	13.67	0.657	8.48	7.99	13.76	0.684	4.99	7.49
10/14/2008	8:30:08	13.95	0.761	10.83	7.99	13.68	0.657	8.49	7.99	13.76	0.684	4.72	7.48
10/14/2008	8:45:08	13.96	0.761	9.87	7.99	13.69	0.657	8.48	7.99	13.76	0.685	4.98	7.5
10/14/2008	9:00:08	13.97	0.761	10.47	7.99	13.72	0.657	8.54	7.99	13.77	0.685	4.96	7.5
10/14/2008	9:15:08	13.98	0.761	10.54	7.98	13.75	0.657	8.59	7.99	13.78	0.687	5.51	7.52
10/14/2008	9:30:08	13.98	0.761	9.92	7.96	13.79	0.657	8.63	7.99	13.76	0.688	5	7.51
10/14/2008	9:45:08	13.98	0.761	10.58	7.97	13.84	0.657	8.7	7.99	13.75	0.688	5.3	7.52
10/14/2008	10:00:08	13.99	0.761	10.79	7.98	13.93	0.657	8.79	8	13.77	0.688	5.5	7.53
10/14/2008	10:15:08	14.01	0.761	10.22	7.98	14.02	0.657	8.98	8.01	13.75	0.689	5.44	7.53
10/14/2008	10:30:08	14.06	0.761	10.15	7.99	14.09	0.658	9	8.01	13.77	0.689	5.47	7.53
10/14/2008	10:45:08	14.11	0.761	9.98	7.99	14.23	0.657	9.13	8.01	13.79	0.69	5.58	7.53
10/14/2008	11:00:08	14.15	0.761	10.35	7.98	14.34	0.657	9.22	8.02	13.79	0.69	5.29	7.52
10/14/2008	11:15:08	14.21	0.761	10.3	7.96	14.38	0.658	9.16	8.02	13.79	0.69	4.69	7.5
10/14/2008	11:30:08	14.31	0.761	10.38	7.96	14.49	0.658	9.3	8.02	13.79	0.69	4.6	7.5
10/14/2008	11:45:08	14.42	0.761	10.59	7.97	14.6	0.657	9.44	8.03	13.81	0.69	4.56	7.51
10/14/2008	12:00:08	14.52	0.761	9.87	7.98	14.68	0.657	9.46	8.04	13.83	0.691	4.42	7.5
10/14/2008	12:15:08	14.81	0.76	10.86	8	14.77	0.657	9.5	8.05	13.82	0.691	4.49	7.49
10/14/2008	12:30:08	14.94	0.762	11.33	8.1	14.87	0.658	9.45	8.05	13.83	0.691	4.77	7.49
10/14/2008	12:45:08	15.11	0.761	11.65	8.11	14.91	0.658	9.46	8.05	13.84	0.691	4.68	7.49
10/14/2008	13:00:08	15.12	0.762	11.81	8.11	14.97	0.657	9.55	8.06	13.86	0.691	4.76	7.49
10/14/2008	13:15:08	15.18	0.76	11.87	8.1	15.04	0.657	9.71	8.07	13.88	0.691	5.14	7.51
10/14/2008	13:30:08	15.19	0.761	11.79	8.11	15.14	0.657	9.84	8.08	13.9	0.691	4.88	7.5
10/14/2008	13:45:08	15.3	0.761	11.33	8.11	15.24	0.657	9.91	8.09	13.94	0.691	4.49	7.49
10/14/2008	14:00:08	15.45	0.761	11.77	8.1	15.28	0.657	9.93	8.1	13.94	0.691	4.95	7.49
10/14/2008	14:15:08	15.49	0.762	12.15	8.13	15.35	0.657	10.02	8.1	13.96	0.691	5.05	7.5
10/14/2008	14:30:08	15.66	0.761	12.25	8.15	15.36	0.657	9.96	8.1	13.96	0.692	5.43	7.49
10/14/2008	14:45:08	15.72	0.761	12.48	8.13	15.37	0.657	9.91	8.11	13.95	0.692	4.84	7.49
10/14/2008	15:00:08	15.79	0.761	11.98	8.12	15.38	0.657	9.95	8.11	13.96	0.692	4.59	7.49
10/14/2008	15:15:08	15.86	0.761	11.65	8.17	15.4	0.657	9.9	8.11	13.98	0.692	4.78	7.49
10/14/2008	15:30:08	15.94	0.761	12.08	8.17	15.41	0.657	9.85	8.11	13.98	0.692	4.65	7.49
10/14/2008	15:45:08	15.93	0.761	11.63	8.18	15.42	0.657	9.95	8.11	13.99	0.693	3.98	7.49
10/14/2008	16:00:08	15.98	0.762	12.03	8.18	15.43	0.657	9.94	8.11	14.01	0.693	4	7.5
10/14/2008	16:15:08	16.02	0.762	11.69	8.16	15.42	0.657	9.92	8.11	14.03	0.693	4.74	7.5
10/14/2008	16:30:08	16.08	0.761	11.89	8.15	15.39	0.658	9.81	8.11	14.05	0.693	3.58	7.5
10/14/2008	16:45:08	16.08	0.762	11.95	8.18	15.36	0.658	9.75	8.11	14.04	0.693	5.33	7.49
10/14/2008	17:00:08	16.08	0.762	12.15	8.18	15.34	0.658	9.65	8.1	14.03	0.693	5.39	7.51
10/14/2008	17:15:08	16.07	0.762	11.91	8.18	15.3	0.658	9.62	8.1	14.02	0.692	5.03	7.51
10/14/2008	17:30:08	16.05	0.761	11.45	8.19	15.27	0.659	9.49	8.09	14.01	0.693	4.04	7.47
10/14/2008	17:45:08	16.06	0.761	12.17	8.19	15.23	0.659	9.44	8.08	14.03	0.693	4.36	7.48
10/14/2008	18:00:08	16.04	0.761	11.47	8.21	15.19	0.659	9.31	8.08	14.03	0.693	4.33	7.48
10/14/2008	18:15:08	16.07	0.761	11.28	8.22	15.15	0.66	9.18	8.07	14.04	0.693	4.73	7.49
10/14/2008	18:30:08	16.03	0.761	10.95	8.24	15.1	0.66	9.07	8.06	14.04	0.693	4.66	7.49
10/14/2008	18:45:08	15.96	0.761	11.31	8.23	15.06	0.66	8.94	8.05	14.04	0.693	3.81	7.48

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/14/2008	19:00:08	15.94	0.761	11.87	8.2	14.99	0.66	8.85	8.04	14.05	0.693	3.23	7.47
10/14/2008	19:15:08	15.87	0.761	12.1	8.19	14.94	0.661	8.77	8.03	14.05	0.693	3.44	7.47
10/14/2008	19:30:08	15.79	0.761	11.37	8.19	14.89	0.661	8.66	8.03	14.05	0.693	3.22	7.46
10/14/2008	19:45:08	15.72	0.761	10.93	8.18	14.82	0.662	8.55	8.02	14.05	0.693	3	7.44
10/14/2008	20:00:08	15.65	0.761	11.56	8.16	14.76	0.662	8.49	8.01	14.09	0.693	4.37	7.46
10/14/2008	20:15:08	15.57	0.761	10.79	8.15	14.7	0.662	8.42	8	14.06	0.693	4.45	7.46
10/14/2008	20:30:08	15.51	0.761	10.65	8.14	14.64	0.662	8.37	7.99	14.06	0.694	3.59	7.45
10/14/2008	20:45:08	15.42	0.762	11.39	8.13	14.59	0.662	8.3	7.99	14.06	0.694	4.2	7.44
10/14/2008	21:00:08	15.34	0.761	10.61	8.13	14.53	0.662	8.26	7.98	14.07	0.694	4.41	7.44
10/14/2008	21:15:08	15.27	0.762	10.46	8.12	14.48	0.662	8.22	7.98	14.06	0.694	3.8	7.45
10/14/2008	21:30:08	15.22	0.762	10.42	8.11	14.42	0.662	8.19	7.97	14.06	0.694	3.07	7.44
10/14/2008	21:45:08	15.13	0.762	11.15	8.1	14.37	0.662	8.15	7.97	14.07	0.694	2.49	7.43
10/14/2008	22:00:08	15.05	0.762	11.29	8.09	14.32	0.662	8.14	7.97	14.08	0.694	2.31	7.43
10/14/2008	22:15:08	15	0.762	10.48	8.08	14.26	0.662	8.1	7.96	14.09	0.694	2.68	7.42
10/14/2008	22:30:08	14.91	0.763	10.2	8.07	14.21	0.662	8.1	7.96	14.09	0.694	3.11	7.44
10/14/2008	22:45:08	14.85	0.763	10.96	8.06	14.17	0.662	8.06	7.96	14.1	0.694	3.28	7.43
10/14/2008	23:00:08	14.79	0.763	11.09	8.05	14.12	0.662	8.03	7.96	14.11	0.694	3.98	7.42
10/14/2008	23:15:08	14.73	0.763	11.2	8.05	14.08	0.662	8.04	7.95	14.14	0.694	3.3	7.42
10/14/2008	23:30:08	14.68	0.763	11.24	8.04	14.03	0.662	8.03	7.95	14.16	0.694	3.4	7.43
10/14/2008	23:45:08	14.6	0.763	10.53	8.03	13.98	0.662	8	7.95	14.12	0.695	3.75	7.46
10/15/2008	0:00:08	14.55	0.764	10.82	8.02	13.95	0.663	7.98	7.94	14.14	0.695	3.82	7.45
10/15/2008	0:15:08	14.5	0.764	10.26	8.02	13.92	0.663	7.94	7.94	14.16	0.695	4.14	7.46
10/15/2008	0:30:08	14.47	0.764	10.62	8.01	13.89	0.663	7.92	7.94	14.15	0.695	3.5	7.45
10/15/2008	0:45:08	14.46	0.765	10.01	8	13.87	0.663	7.89	7.93	14.13	0.695	3.82	7.45
10/15/2008	1:00:08	14.41	0.765	10.49	8	13.85	0.663	7.87	7.93	14.19	0.695	4.25	7.48
10/15/2008	1:15:08	14.39	0.765	10.54	7.99	13.83	0.663	7.9	7.93	14.18	0.696	4.84	7.5
10/15/2008	1:30:08	14.37	0.765	9.93	7.99	13.82	0.663	7.85	7.92	14.18	0.697	5.18	7.52
10/15/2008	1:45:08	14.36	0.766	10.37	7.98	13.82	0.663	7.85	7.92	14.13	0.697	4.6	7.5
10/15/2008	2:00:08	14.33	0.766	9.81	7.98	13.81	0.664	7.83	7.92	14.12	0.697	4.46	7.48
10/15/2008	2:15:08	14.31	0.766	9.59	7.98	13.8	0.663	7.78	7.91	14.12	0.697	3.88	7.47
10/15/2008	2:30:08	14.28	0.767	10.23	7.98	13.8	0.664	7.78	7.91	14.11	0.697	3.31	7.45
10/15/2008	2:45:08	14.26	0.767	9.56	7.97	13.8	0.664	7.76	7.91	14.12	0.697	3.19	7.45
10/15/2008	3:00:08	14.24	0.768	10.2	7.97	13.8	0.664	7.77	7.91	14.12	0.697	4.12	7.46
10/15/2008	3:15:08	14.23	0.769	10.35	7.97	13.8	0.664	7.77	7.91	14.12	0.697	3.7	7.45
10/15/2008	3:30:08	14.22	0.769	9.64	7.96	13.8	0.664	7.77	7.9	14.12	0.697	3.08	7.45
10/15/2008	3:45:08	14.2	0.771	9.46	7.97	13.8	0.664	7.75	7.9	14.12	0.697	2.45	7.43
10/15/2008	4:00:08	14.19	0.772	10.15	7.96	13.8	0.664	7.75	7.9	14.1	0.698	3.85	7.42
10/15/2008	4:15:08	14.17	0.773	10.29	7.96	13.81	0.664	7.75	7.9	14.1	0.698	3.56	7.4
10/15/2008	4:30:08	14.17	0.774	10.44	7.96	13.81	0.664	7.75	7.9	14.11	0.699	3.59	7.43
10/15/2008	4:45:08	14.16	0.774	10.55	7.96	13.81	0.664	7.74	7.9	14.1	0.699	3.27	7.43
10/15/2008	5:00:08	14.16	0.775	10.52	7.95	13.82	0.664	7.75	7.9	14.09	0.699	3.36	7.43
10/15/2008	5:15:08	14.15	0.776	10.6	7.95	13.82	0.664	7.73	7.9	14.09	0.699	3.58	7.43
10/15/2008	5:30:08	14.14	0.776	10.63	7.95	13.82	0.664	7.72	7.89	14.09	0.699	3.79	7.43
10/15/2008	5:45:08	14.13	0.777	10.67	7.95	13.82	0.664	7.72	7.89	14.08	0.699	4.34	7.44
10/15/2008	6:00:08	14.13	0.777	10.07	7.95	13.82	0.664	7.73	7.89	14.08	0.699	3.46	7.43
10/15/2008	6:15:08	14.11	0.779	9.81	7.95	13.81	0.664	7.74	7.89	14.07	0.699	3.32	7.47
10/15/2008	6:30:08	14.09	0.779	10.24	7.95	13.81	0.664	7.74	7.89	14.06	0.699	3.55	7.46
10/15/2008	6:45:08	14.07	0.78	10.29	7.95	13.81	0.664	7.71	7.89	14.06	0.699	3.82	7.45
10/15/2008	7:00:08	14.07	0.78	9.71	7.94	13.81	0.664	7.72	7.89	14.06	0.7	3.06	7.45
10/15/2008	7:15:08	14.07	0.781	10.07	7.93	13.81	0.664	7.71	7.89	14.06	0.7	4.27	7.47
10/15/2008	7:30:08	14.07	0.781	10.21	7.93	13.81	0.664	7.7	7.89	14.05	0.701	4.7	7.47
10/15/2008	7:45:08	14.08	0.781	10.25	7.93	13.81	0.664	7.68	7.89	14.05	0.701	5.18	7.48
10/15/2008	8:00:08	14.08	0.782	10.3	7.93	13.81	0.664	7.71	7.89	14.05	0.701	5.15	7.5
10/15/2008	8:15:08	14.08	0.782	10.34	7.92	13.81	0.664	7.72	7.89	14.04	0.701	4.56	7.49
10/15/2008	8:30:08	14.09	0.782	10.28	7.92	13.82	0.664	7.7	7.89	14.04	0.701	4.32	7.48
10/15/2008	8:45:08	14.09	0.783	10.3	7.92	13.82	0.664	7.72	7.89	14.03	0.701	4.8	7.48
10/15/2008	9:00:08	14.09	0.783	10.19	7.91	13.82	0.662	7.77	7.89	14.02	0.701	4.45	7.47
10/15/2008	9:15:08	14.09	0.783	9.99	7.9	13.83	0.662	7.78	7.89	14.02	0.701	4.14	7.47
10/15/2008	9:30:08	14.1	0.783	9.44	7.89	13.84	0.662	7.77	7.88	14.02	0.701	4.15	7.47
10/15/2008	9:45:08	14.11	0.783	9.38	7.88	13.86	0.662	7.79	7.88	14.03	0.701	4.23	7.47
10/15/2008	10:00:08	14.12	0.783	9.3	7.88	13.9	0.662	7.88	7.89	14.03	0.701	3.84	7.46

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/15/2008	10:15:08	14.13	0.783	9.65	7.86	13.92	0.662	7.91	7.89	14.03	0.701	4.23	7.46
10/15/2008	10:30:08	14.14	0.783	9.29	7.86	13.94	0.662	7.92	7.89	14.03	0.701	3.91	7.46
10/15/2008	10:45:08	14.15	0.783	9.01	7.86	13.99	0.661	8.03	7.89	14.03	0.701	3.65	7.46
10/15/2008	11:00:08	14.17	0.783	9.14	7.87	14.08	0.661	8.24	7.9	14.04	0.701	3.56	7.45
10/15/2008	11:15:08	14.19	0.783	8.91	7.87	14.18	0.661	8.46	7.91	14.04	0.701	4.12	7.45
10/15/2008	11:30:08	14.22	0.783	8.66	7.88	14.32	0.661	8.63	7.93	14.04	0.701	3.99	7.45
10/15/2008	11:45:08	14.26	0.783	8.62	7.88	14.43	0.661	8.74	7.94	14.06	0.7	3.31	7.45
10/15/2008	12:00:08	14.32	0.783	9.32	7.88	14.51	0.661	8.85	7.95	14.07	0.7	2.83	7.45
10/15/2008	12:15:08	14.38	0.783	9.61	7.89	14.59	0.66	9.03	7.96	14.08	0.701	3.29	7.46
10/15/2008	12:30:08	14.46	0.783	9.04	7.89	14.64	0.661	9	7.96	14.1	0.701	3.71	7.46
10/15/2008	12:45:08	14.53	0.783	9.1	7.91	14.66	0.66	8.97	7.96	14.11	0.701	3.27	7.46
10/15/2008	13:00:08	14.62	0.783	9.06	7.95	14.74	0.66	9.08	7.97	14.12	0.701	3.42	7.46
10/15/2008	13:15:08	14.77	0.782	10.23	7.98	14.77	0.66	9.19	7.97	14.12	0.701	3.77	7.45
10/15/2008	13:30:08	14.85	0.783	10.47	8	14.83	0.66	9.15	7.97	14.13	0.701	3.9	7.45
10/15/2008	13:45:08	14.91	0.783	10.35	8.01	14.88	0.66	9.13	7.98	14.14	0.701	3.9	7.45
10/15/2008	14:00:08	15	0.783	10.6	8.03	14.93	0.66	9.13	7.98	14.14	0.701	3.74	7.44
10/15/2008	14:15:08	15.05	0.783	10.66	8.04	14.97	0.659	9.09	7.98	14.15	0.701	3.59	7.44
10/15/2008	14:30:08	15.17	0.782	10.57	8.04	15.01	0.659	9.11	7.97	14.16	0.701	3.58	7.44
10/15/2008	14:45:08	15.29	0.782	10.04	8.07	15.09	0.659	9.13	7.98	14.18	0.701	3.19	7.44
10/15/2008	15:00:08	15.34	0.782	9.57	8.1	15.16	0.66	9.22	7.99	14.21	0.701	2.85	7.44
10/15/2008	15:15:08	15.46	0.782	9.75	8.12	15.2	0.66	9.23	7.99	14.21	0.701	2.7	7.43
10/15/2008	15:30:08	15.53	0.782	10.19	8.13	15.25	0.659	9.26	7.99	14.22	0.701	2.29	7.42
10/15/2008	15:45:08	15.59	0.781	11.05	8.12	15.33	0.66	9.28	7.99	14.23	0.7	3.02	7.42
10/15/2008	16:00:08	15.71	0.78	11.46	8.13	15.37	0.66	9.32	7.99	14.25	0.701	2.38	7.42
10/15/2008	16:15:08	15.85	0.78	12.1	8.14	15.45	0.661	9.32	8	14.27	0.701	2.11	7.41
10/15/2008	16:30:08	15.93	0.779	11.17	8.11	15.45	0.66	9.28	7.99	14.28	0.701	2.18	7.41
10/15/2008	16:45:08	16	0.779	11.76	8.13	15.54	0.661	9.17	7.99	14.28	0.701	2.29	7.41
10/15/2008	17:00:08	16.03	0.779	12.02	8.13	15.61	0.661	9.17	7.99	14.28	0.701	1.72	7.4
10/15/2008	17:15:08	16.09	0.777	11.96	8.17	15.61	0.663	9.03	7.99	14.27	0.701	1.21	7.38
10/15/2008	17:30:08	16.09	0.775	11.46	8.19	15.55	0.663	8.9	7.98	14.35	0.7	2.24	7.38
10/15/2008	17:45:08	16.11	0.774	11.73	8.17	15.62	0.663	8.82	7.97	14.31	0.695	2.35	7.38
10/15/2008	18:00:08	16.14	0.773	11.14	8.18	15.63	0.665	8.71	7.97	14.3	0.695	1.79	7.38
10/15/2008	18:15:08	16.13	0.772	11.66	8.18	15.62	0.664	8.59	7.96	14.32	0.696	2.21	7.38
10/15/2008	18:30:08	16.28	0.772	11.48	8.1	15.63	0.659	8.45	7.96	14.32	0.697	2.14	7.39
10/15/2008	18:45:08	16.29	0.772	11.72	8.09	15.59	0.661	8.41	7.95	14.32	0.697	1.34	7.38
10/15/2008	19:00:08	16.32	0.771	11.43	8.06	15.68	0.661	8.24	7.94	14.3	0.696	1.02	7.38
10/15/2008	19:15:08	16.32	0.771	11.41	8.05	15.63	0.663	8.13	7.93	14.3	0.697	1.24	7.36
10/15/2008	19:30:08	16.35	0.768	11.2	8.03	15.61	0.665	8.02	7.92	14.4	0.705	1.59	7.36
10/15/2008	19:45:08	16.32	0.766	11.24	8.04	15.58	0.665	7.9	7.92	14.44	0.705	1.66	7.37
10/15/2008	20:00:08	16.29	0.764	10.65	8.02	15.57	0.665	7.8	7.91	14.41	0.706	1.55	7.37
10/15/2008	20:15:08	16.27	0.762	9.83	8	15.55	0.666	7.74	7.9	14.42	0.706	1.62	7.37
10/15/2008	20:30:08	16.27	0.761	9.89	7.98	15.54	0.666	7.65	7.89	14.44	0.705	2.04	7.37
10/15/2008	20:45:08	16.25	0.76	9.61	7.98	15.51	0.667	7.53	7.88	14.43	0.705	2.32	7.37
10/15/2008	21:00:08	16.22	0.76	9.28	7.96	15.51	0.667	7.5	7.87	14.46	0.705	1.94	7.38
10/15/2008	21:15:08	16.18	0.759	9.26	7.95	15.55	0.659	7.58	7.88	14.45	0.705	2.04	7.36
10/15/2008	21:30:08	16.2	0.765	9.01	7.95	15.7	0.625	7.88	7.89	14.48	0.705	1.4	7.36
10/15/2008	21:45:08	16.2	0.764	9.93	7.93	15.74	0.616	7.95	7.89	14.45	0.706	1.12	7.35
10/15/2008	22:00:08	16.39	0.745	9.91	7.96	15.75	0.614	7.98	7.89	14.46	0.706	0.74	7.35
10/15/2008	22:15:08	16.41	0.768	10.86	7.95	15.73	0.614	7.9	7.88	14.46	0.705	0.4	7.34
10/15/2008	22:30:08	16.62	0.744	10.12	7.91	15.74	0.604	7.81	7.87	14.45	0.705	0.74	7.33
10/15/2008	22:45:08	16.73	0.836	9.94	7.9	15.76	0.595	7.73	7.86	14.44	0.706	1.03	7.33
10/15/2008	23:00:08	16.97	0.713	10.9	7.86	15.74	0.592	7.69	7.84	14.44	0.706	0.41	7.33
10/15/2008	23:15:08	17.15	0.648	11.07	7.82	15.75	0.601	7.7	7.84	14.46	0.706	0.22	7.33
10/15/2008	23:30:08	17.21	0.669	11.17	7.8	15.75	0.611	7.72	7.83	14.46	0.706	0.18	7.33
10/15/2008	23:45:08	17.22	0.687	11.19	7.79	15.74	0.617	7.8	7.84	14.48	0.706	0.3	7.33
10/16/2008	0:00:08	17.19	0.683	11.11	7.77	15.72	0.624	7.89	7.86	14.48	0.706	0.35	7.33
10/16/2008	0:15:08	17.17	0.68	10.31	7.76	15.71	0.627	7.91	7.86	14.47	0.706	0.03	7.32
10/16/2008	0:30:08	17.17	0.676	9.69	7.74	15.71	0.628	7.94	7.87	14.49	0.706	0.03	7.34
10/16/2008	0:45:08	17.17	0.674	10.16	7.73	15.72	0.628	7.89	7.87	14.47	0.706	0.03	7.33
10/16/2008	1:00:08	17.18	0.667	10.02	7.72	15.73	0.629	7.86	7.87	14.48	0.705	-0.01	7.34
10/16/2008	1:15:08	17.07	0.666	8.8	7.7	15.74	0.629	7.8	7.86	14.48	0.705	-0.02	7.34

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/16/2008	1:30:08	17.09	0.663	9.13	7.7	15.74	0.629	7.72	7.86	14.5	0.706	-0.02	7.34
10/16/2008	1:45:08	17.05	0.665	7.83	7.68	15.76	0.628	7.67	7.85	14.53	0.705	0.11	7.34
10/16/2008	2:00:08	17.04	0.667	7.97	7.66	15.78	0.625	7.61	7.85	14.52	0.706	0.02	7.33
10/16/2008	2:15:08	17.06	0.668	7.96	7.67	15.8	0.622	7.58	7.84	14.52	0.706	0.13	7.33
10/16/2008	2:30:08	17	0.67	8.21	7.65	15.84	0.612	7.62	7.84	14.51	0.706	0.02	7.32
10/16/2008	2:45:08	17.06	0.671	7.77	7.67	16	0.575	8.02	7.86	14.54	0.706	0.12	7.32
10/16/2008	3:00:08	17.02	0.629	9.63	7.74	15.98	0.539	8.2	7.87	14.5	0.706	0.24	7.33
10/16/2008	3:15:08	17	0.552	11.09	7.82	15.98	0.447	8.29	7.85	14.61	0.706	0.25	7.34
10/16/2008	3:30:08	16.94	0.474	11.5	7.82	15.87	0.544	7.8	7.77	14.59	0.706	0.13	7.33
10/16/2008	3:45:08	16.81	0.402	11.88	7.79	16	0.541	7.9	7.77	14.58	0.706	0.21	7.33
10/16/2008	4:00:08	16.65	0.393	12.1	7.78	16.13	0.502	8.03	7.77	15.03	0.693	0.79	7.33
10/16/2008	4:15:08	16.53	0.377	12.23	7.78	16.26	0.46	8.16	7.75	15.4	0.68	1.82	7.39
10/16/2008	4:30:08	16.4	0.368	11.63	7.79	16.34	0.423	8.25	7.74	15.52	0.669	3.58	7.42
10/16/2008	4:45:08	16.3	0.373	12.07	7.8	16.38	0.402	8.31	7.73	15.71	0.654	4.78	7.45
10/16/2008	5:00:08	16.19	0.382	11.46	7.82	16.37	0.407	8.32	7.72	15.89	0.637	5.05	7.46
10/16/2008	5:15:08	16.09	0.39	11.97	7.83	16.31	0.421	8.35	7.72	15.99	0.622	5.57	7.47
10/16/2008	5:30:08	15.99	0.405	12.11	7.83	16.22	0.439	8.33	7.72	16.13	0.604	6.17	7.47
10/16/2008	5:45:08	15.89	0.421	12.24	7.84	16.09	0.456	8.3	7.73	16.06	0.627	6.03	7.45
10/16/2008	6:00:08	15.81	0.434	12.27	7.85	15.95	0.473	8.26	7.74	15.95	0.612	5.76	7.45
10/16/2008	6:15:08	15.73	0.445	12.35	7.86	15.8	0.491	8.25	7.75	15.88	0.605	5.56	7.44
10/16/2008	6:30:08	15.66	0.454	12.32	7.87	15.66	0.507	8.25	7.76	15.89	0.571	5.74	7.44
10/16/2008	6:45:08	15.59	0.463	12.29	7.87	15.5	0.536	8.24	7.75	15.89	0.525	6.08	7.43
10/16/2008	7:00:08	15.53	0.471	12.25	7.88	15.34	0.568	8.24	7.76	15.84	0.506	6.4	7.43
10/16/2008	7:15:08	15.46	0.478	12.22	7.88	15.37	0.564	8.27	7.75	15.79	0.497	6.57	7.44
10/16/2008	7:30:08	15.4	0.485	12.17	7.88	15.39	0.581	8.33	7.75	15.76	0.483	6.83	7.46
10/16/2008	7:45:08	15.34	0.489	12.11	7.88	15.43	0.598	8.31	7.75	15.74	0.459	7.18	7.47
10/16/2008	8:00:08	15.3	0.471	11.99	7.88	15.47	0.606	8.26	7.74	15.74	0.417	7.26	7.46
10/16/2008	8:15:08	15.32	0.457	11.59	7.88	15.5	0.6	8.19	7.73	15.73	0.391	7.35	7.44
10/16/2008	8:30:08	15.3	0.474	11.39	7.89	15.54	0.573	8.08	7.7	15.71	0.384	7.46	7.43
10/16/2008	8:45:08	15.23	0.504	11.95	7.92	15.57	0.537	8.08	7.68	15.68	0.39	7.46	7.42
10/16/2008	9:00:08	15.17	0.526	11.51	7.94	15.58	0.508	8.16	7.67	15.6	0.397	7.42	7.42
10/16/2008	9:15:08	15.16	0.545	11.42	7.97	15.59	0.475	8.22	7.66	15.52	0.397	7.41	7.42
10/16/2008	9:30:08	15.2	0.589	12.03	7.97	15.59	0.438	8.27	7.65	15.47	0.394	7.42	7.42
10/16/2008	9:45:08	15.28	0.591	12.15	7.96	15.6	0.411	8.32	7.63	15.44	0.384	7.49	7.42
10/16/2008	10:00:08	15.35	0.559	12.18	7.94	15.61	0.399	8.33	7.62	15.41	0.367	7.52	7.41
10/16/2008	10:15:08	15.42	0.523	11.55	7.93	15.59	0.398	8.32	7.61	15.4	0.352	7.55	7.39
10/16/2008	10:30:08	15.46	0.484	12.02	7.91	15.56	0.399	8.31	7.6	15.4	0.336	7.56	7.38
10/16/2008	10:45:08	15.48	0.448	12.15	7.89	15.52	0.397	8.33	7.6	15.38	0.321	7.69	7.36
10/16/2008	11:00:08	15.51	0.425	12.19	7.88	15.48	0.39	8.34	7.6	15.37	0.31	7.73	7.35
10/16/2008	11:15:08	15.52	0.415	11.61	7.87	15.47	0.378	8.34	7.59	15.35	0.306	7.65	7.34
10/16/2008	11:30:08	15.52	0.412	12.1	7.86	15.46	0.363	8.33	7.58	15.35	0.304	7.62	7.34
10/16/2008	11:45:08	15.51	0.41	11.49	7.85	15.45	0.347	8.35	7.56	15.34	0.304	7.67	7.33
10/16/2008	12:00:08	15.49	0.405	11.3	7.85	15.43	0.332	8.36	7.55	15.32	0.306	7.71	7.33
10/16/2008	12:15:08	15.49	0.397	11.96	7.85	15.43	0.321	8.37	7.53	15.32	0.308	7.73	7.33
10/16/2008	12:30:08	15.48	0.385	12.12	7.84	15.43	0.314	8.4	7.53	15.33	0.309	7.71	7.34
10/16/2008	12:45:08	15.47	0.371	12.22	7.82	15.43	0.309	8.41	7.52	15.34	0.31	7.76	7.34
10/16/2008	13:00:08	15.45	0.356	12.29	7.82	15.4	0.308	8.44	7.52	15.35	0.31	7.71	7.34
10/16/2008	13:15:08	15.43	0.344	11.63	7.81	15.37	0.306	8.45	7.52	15.34	0.309	7.79	7.34
10/16/2008	13:30:08	15.4	0.333	12.1	7.8	15.36	0.308	8.48	7.51	15.34	0.308	7.76	7.35
10/16/2008	13:45:08	15.35	0.325	12.23	7.79	15.34	0.309	8.47	7.52	15.32	0.307	7.75	7.34
10/16/2008	14:00:08	15.31	0.321	12.32	7.79	15.32	0.311	8.47	7.52	15.31	0.307	7.83	7.34
10/16/2008	14:15:08	15.28	0.319	12.38	7.78	15.31	0.311	8.48	7.53	15.29	0.306	7.81	7.33
10/16/2008	14:30:08	15.25	0.319	11.77	7.79	15.3	0.311	8.5	7.53	15.28	0.307	7.76	7.33
10/16/2008	14:45:08	15.22	0.32	12.24	7.79	15.29	0.31	8.51	7.53	15.26	0.307	7.75	7.33
10/16/2008	15:00:08	15.21	0.321	12.37	7.79	15.27	0.31	8.51	7.53	15.24	0.308	7.73	7.32
10/16/2008	15:15:08	15.19	0.321	12.39	7.79	15.26	0.309	8.52	7.53	15.23	0.309	7.84	7.32
10/16/2008	15:30:08	15.18	0.322	11.79	7.8	15.25	0.308	8.54	7.53	15.21	0.311	7.8	7.33
10/16/2008	15:45:08	15.15	0.322	12.26	7.8	15.23	0.308	8.55	7.53	15.18	0.313	7.79	7.33
10/16/2008	16:00:08	15.14	0.321	12.38	7.8	15.21	0.308	8.54	7.53	15.16	0.316	7.83	7.33
10/16/2008	16:15:08	15.12	0.32	12.39	7.79	15.19	0.308	8.55	7.53	15.14	0.318	7.9	7.33
10/16/2008	16:30:08	15.11	0.32	11.79	7.8	15.18	0.309	8.55	7.53	15.11	0.321	7.88	7.34

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/16/2008	16:45:08	15.09	0.319	11.6	7.8	15.16	0.311	8.56	7.53	15.09	0.323	7.99	7.35
10/16/2008	17:00:08	15.07	0.319	12.14	7.79	15.14	0.312	8.58	7.52	15.07	0.326	7.98	7.36
10/16/2008	17:15:08	15.06	0.319	12.29	7.79	15.12	0.314	8.59	7.52	15.05	0.327	8.08	7.36
10/16/2008	17:30:08	15.04	0.32	12.38	7.79	15.1	0.316	8.61	7.52	15.03	0.328	8.01	7.37
10/16/2008	17:45:08	15.02	0.32	11.75	7.79	15.08	0.318	8.62	7.53	15.01	0.329	8.08	7.38
10/16/2008	18:00:08	14.99	0.321	12.21	7.79	15.05	0.321	8.63	7.53	14.98	0.329	8.07	7.38
10/16/2008	18:15:08	14.97	0.322	12.32	7.79	15.02	0.323	8.65	7.54	14.96	0.329	8.13	7.38
10/16/2008	18:30:08	14.94	0.323	12.42	7.79	15	0.326	8.68	7.54	14.93	0.328	8.05	7.38
10/16/2008	18:45:08	14.91	0.325	12.47	7.79	14.96	0.327	8.7	7.55	14.9	0.327	8.06	7.38
10/16/2008	19:00:08	14.87	0.327	11.86	7.8	14.93	0.329	8.71	7.55	14.87	0.325	8.17	7.38
10/16/2008	19:15:08	14.84	0.329	11.64	7.8	14.9	0.33	8.74	7.56	14.85	0.324	8.13	7.38
10/16/2008	19:30:08	14.8	0.332	11.5	7.81	14.87	0.331	8.73	7.57	14.8	0.322	8.08	7.38
10/16/2008	19:45:08	14.77	0.334	12.16	7.81	14.84	0.33	8.77	7.56	14.77	0.321	8.13	7.38
10/16/2008	20:00:08	14.74	0.335	12.36	7.82	14.81	0.33	8.79	7.57	14.74	0.321	8.05	7.38
10/16/2008	20:15:08	14.7	0.337	12.49	7.82	14.78	0.329	8.78	7.57	14.71	0.321	8.06	7.38
10/16/2008	20:30:08	14.67	0.339	12.58	7.83	14.76	0.328	8.79	7.57	14.67	0.321	8.14	7.38
10/16/2008	20:45:08	14.64	0.34	12.66	7.83	14.73	0.327	8.81	7.58	14.64	0.322	8.03	7.37
10/16/2008	21:00:08	14.61	0.34	12.69	7.83	14.7	0.326	8.8	7.58	14.6	0.323	8.19	7.37
10/16/2008	21:15:08	14.59	0.341	12.73	7.84	14.68	0.324	8.83	7.58	14.57	0.324	8.12	7.37
10/16/2008	21:30:08	14.56	0.34	12.72	7.84	14.65	0.323	8.83	7.58	14.55	0.325	8.05	7.37
10/16/2008	21:45:08	14.53	0.34	12.15	7.84	14.62	0.322	8.83	7.58	14.51	0.326	8.15	7.37
10/16/2008	22:00:08	14.49	0.339	11.86	7.85	14.58	0.322	8.84	7.58	14.48	0.326	8.08	7.36
10/16/2008	22:15:08	14.46	0.339	11.67	7.85	14.54	0.322	8.86	7.58	14.43	0.326	8.18	7.36
10/16/2008	22:30:08	14.41	0.338	12.34	7.85	14.49	0.323	8.87	7.58	14.39	0.327	8.12	7.36
10/16/2008	22:45:08	14.38	0.337	12.54	7.85	14.45	0.324	8.87	7.58	14.35	0.327	8.12	7.36
10/16/2008	23:00:08	14.34	0.336	12.67	7.85	14.42	0.324	8.89	7.58	14.32	0.327	8.19	7.36
10/16/2008	23:15:08	14.31	0.335	12.76	7.85	14.39	0.326	8.89	7.58	14.28	0.328	8.19	7.36
10/16/2008	23:30:08	14.27	0.335	12.81	7.85	14.36	0.326	8.91	7.58	14.25	0.328	8.13	7.36
10/16/2008	23:45:08	14.24	0.335	12.18	7.85	14.33	0.327	8.92	7.57	14.22	0.329	8.13	7.36
10/17/2008	0:00:08	14.21	0.334	12.68	7.85	14.3	0.327	8.92	7.57	14.19	0.33	8.28	7.36
10/17/2008	0:15:08	14.18	0.335	12.08	7.86	14.27	0.328	8.95	7.57	14.16	0.33	8.15	7.35
10/17/2008	0:30:08	14.16	0.335	11.84	7.85	14.24	0.328	8.96	7.58	14.12	0.331	8.25	7.35
10/17/2008	0:45:08	14.13	0.337	11.7	7.86	14.21	0.328	8.97	7.58	14.09	0.332	8.2	7.36
10/17/2008	1:00:08	14.1	0.337	11.59	7.86	14.18	0.329	8.98	7.57	14.06	0.333	8.16	7.35
10/17/2008	1:15:08	14.07	0.338	11.54	7.86	14.15	0.329	9.01	7.57	14.03	0.333	8.31	7.35
10/17/2008	1:30:08	14.05	0.339	12.42	7.86	14.12	0.33	8.99	7.57	13.99	0.334	8.3	7.35
10/17/2008	1:45:08	14.02	0.339	11.61	7.86	14.09	0.33	9.01	7.58	13.97	0.334	8.23	7.35
10/17/2008	2:00:08	13.99	0.34	12.52	7.86	14.05	0.331	9.01	7.57	13.94	0.335	8.25	7.36
10/17/2008	2:15:08	13.96	0.34	11.67	7.86	14.02	0.332	9.02	7.58	13.91	0.335	8.31	7.36
10/17/2008	2:30:08	13.92	0.34	12.57	7.86	13.99	0.333	9.02	7.58	13.88	0.336	8.3	7.35
10/17/2008	2:45:08	13.9	0.341	12.83	7.86	13.97	0.333	9.03	7.58	13.84	0.336	8.21	7.35
10/17/2008	3:00:08	13.86	0.341	13.01	7.85	13.94	0.334	9.06	7.58	13.81	0.337	8.35	7.35
10/17/2008	3:15:08	13.83	0.342	13.13	7.86	13.91	0.335	9.05	7.58	13.78	0.338	8.22	7.35
10/17/2008	3:30:08	13.79	0.342	13.22	7.86	13.88	0.335	9.07	7.58	13.76	0.338	8.31	7.36
10/17/2008	3:45:08	13.76	0.343	12.51	7.86	13.85	0.336	9.08	7.58	13.73	0.339	8.36	7.36
10/17/2008	4:00:08	13.74	0.344	12.95	7.86	13.82	0.337	9.09	7.58	13.69	0.339	8.38	7.36
10/17/2008	4:15:08	13.71	0.345	12.36	7.86	13.79	0.337	9.08	7.59	13.66	0.34	8.25	7.36
10/17/2008	4:30:08	13.68	0.345	12.09	7.86	13.76	0.338	9.11	7.59	13.64	0.34	8.3	7.36
10/17/2008	4:45:08	13.65	0.346	11.88	7.86	13.73	0.339	9.11	7.59	13.61	0.341	8.29	7.36
10/17/2008	5:00:08	13.63	0.346	12.66	7.86	13.7	0.339	9.11	7.59	13.58	0.342	8.37	7.36
10/17/2008	5:15:08	13.6	0.347	12.92	7.86	13.67	0.34	9.12	7.59	13.55	0.343	8.36	7.36
10/17/2008	5:30:08	13.57	0.348	13.09	7.86	13.65	0.34	9.13	7.59	13.53	0.344	8.29	7.37
10/17/2008	5:45:08	13.54	0.349	13.21	7.86	13.62	0.341	9.15	7.59	13.5	0.345	8.31	7.37
10/17/2008	6:00:08	13.51	0.35	12.49	7.87	13.6	0.341	9.15	7.6	13.47	0.346	8.35	7.37
10/17/2008	6:15:08	13.48	0.35	12.97	7.86	13.57	0.342	9.17	7.59	13.44	0.347	8.26	7.37
10/17/2008	6:30:08	13.45	0.351	13.16	7.86	13.54	0.342	9.18	7.6	13.42	0.348	8.3	7.37
10/17/2008	6:45:08	13.42	0.352	12.56	7.87	13.51	0.343	9.18	7.6	13.39	0.349	8.31	7.37
10/17/2008	7:00:08	13.39	0.352	13.03	7.87	13.48	0.344	9.19	7.6	13.36	0.35	8.22	7.37
10/17/2008	7:15:08	13.35	0.353	13.16	7.87	13.45	0.345	9.18	7.6	13.34	0.351	8.36	7.37
10/17/2008	7:30:08	13.33	0.353	12.6	7.87	13.43	0.346	9.21	7.6	13.3	0.353	8.3	7.38
10/17/2008	7:45:08	13.3	0.354	12.31	7.88	13.4	0.347	9.23	7.61	13.27	0.354	8.25	7.38

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/17/2008	8:00:08	13.28	0.354	12.9	7.88	13.38	0.347	9.23	7.61	13.25	0.355	8.43	7.38
10/17/2008	8:15:08	13.26	0.355	13.09	7.88	13.36	0.348	9.23	7.61	13.22	0.356	8.28	7.38
10/17/2008	8:30:08	13.25	0.355	13.24	7.88	13.34	0.349	9.25	7.62	13.2	0.357	8.38	7.38
10/17/2008	8:45:08	13.24	0.356	12.56	7.88	13.32	0.35	9.27	7.62	13.17	0.358	8.42	7.38
10/17/2008	9:00:08	13.23	0.357	13.05	7.88	13.31	0.351	9.3	7.62	13.17	0.359	8.28	7.38
10/17/2008	9:15:08	13.22	0.357	13.19	7.89	13.3	0.352	9.3	7.62	13.14	0.361	8.38	7.38
10/17/2008	9:30:08	13.21	0.358	13.32	7.89	13.3	0.353	9.34	7.62	13.13	0.362	8.25	7.39
10/17/2008	9:45:08	13.21	0.359	12.7	7.89	13.28	0.354	9.34	7.63	13.12	0.363	8.38	7.39
10/17/2008	10:00:08	13.22	0.36	13.19	7.9	13.29	0.355	9.37	7.63	13.11	0.364	8.27	7.39
10/17/2008	10:15:08	13.23	0.361	13.29	7.9	13.29	0.356	9.39	7.64	13.11	0.365	8.24	7.38
10/17/2008	10:30:08	13.26	0.362	12.73	7.91	13.28	0.357	9.39	7.64	13.11	0.366	8.4	7.39
10/17/2008	10:45:08	13.28	0.362	13.21	7.91	13.29	0.358	9.41	7.64	13.11	0.367	8.46	7.39
10/17/2008	11:00:08	13.32	0.363	12.65	7.92	13.3	0.359	9.42	7.65	13.13	0.368	8.52	7.39
10/17/2008	11:15:08	13.35	0.364	13.2	7.92	13.32	0.36	9.43	7.65	13.15	0.369	8.31	7.39
10/17/2008	11:30:08	13.33	0.365	12.56	7.93	13.31	0.361	9.42	7.65	13.16	0.37	8.61	7.4
10/17/2008	11:45:08	13.33	0.366	13.1	7.93	13.3	0.362	9.43	7.65	13.16	0.371	8.53	7.4
10/17/2008	12:00:08	13.36	0.367	13.24	7.94	13.3	0.363	9.43	7.65	13.19	0.372	8.46	7.4
10/17/2008	12:15:08	13.37	0.368	13.38	7.94	13.3	0.364	9.43	7.66	13.2	0.374	8.42	7.41
10/17/2008	12:30:08	13.42	0.369	12.76	7.95	13.3	0.365	9.42	7.66	13.21	0.375	8.47	7.41
10/17/2008	12:45:08	13.43	0.37	13.24	7.95	13.32	0.366	9.43	7.66	13.25	0.376	8.53	7.41
10/17/2008	13:00:08	13.43	0.371	13.35	7.95	13.32	0.367	9.44	7.66	13.26	0.376	8.45	7.41
10/17/2008	13:15:08	13.49	0.372	13.48	7.96	13.35	0.368	9.46	7.67	13.29	0.378	8.57	7.41
10/17/2008	13:30:08	13.53	0.373	12.84	7.97	13.36	0.369	9.45	7.67	13.3	0.379	8.47	7.41
10/17/2008	13:45:08	13.52	0.374	13.27	7.97	13.37	0.37	9.46	7.67	13.32	0.38	8.47	7.41
10/17/2008	14:00:08	13.52	0.375	12.65	7.97	13.37	0.371	9.47	7.68	13.34	0.381	8.68	7.42
10/17/2008	14:15:08	13.53	0.376	13.17	7.97	13.39	0.372	9.47	7.68	13.35	0.382	8.48	7.41
10/17/2008	14:30:08	13.54	0.377	12.55	7.98	13.4	0.373	9.47	7.68	13.37	0.382	8.54	7.42
10/17/2008	14:45:08	13.56	0.377	12.33	7.98	13.41	0.374	9.44	7.68	13.38	0.383	8.5	7.42
10/17/2008	15:00:08	13.57	0.379	13.02	7.98	13.4	0.375	9.44	7.68	13.4	0.384	8.49	7.42
10/17/2008	15:15:08	13.58	0.379	13.2	7.98	13.42	0.376	9.46	7.68	13.39	0.386	8.7	7.42
10/17/2008	15:30:08	13.58	0.38	13.29	7.98	13.43	0.377	9.45	7.69	13.41	0.386	8.57	7.42
10/17/2008	15:45:08	13.57	0.381	13.34	7.98	13.41	0.378	9.44	7.69	13.41	0.387	8.62	7.43
10/17/2008	16:00:08	13.54	0.383	12.61	7.99	13.41	0.379	9.42	7.69	13.42	0.388	8.41	7.42
10/17/2008	16:15:08	13.54	0.383	13.09	7.98	13.41	0.38	9.43	7.69	13.43	0.389	8.6	7.43
10/17/2008	16:30:08	13.51	0.384	12.45	7.99	13.38	0.381	9.39	7.69	13.44	0.39	8.51	7.43
10/17/2008	16:45:08	13.48	0.385	12.98	7.98	13.36	0.382	9.38	7.69	13.43	0.391	8.51	7.43
10/17/2008	17:00:08	13.43	0.386	13.12	7.98	13.32	0.383	9.38	7.69	13.42	0.391	8.51	7.43
10/17/2008	17:15:08	13.36	0.387	12.43	7.98	13.28	0.384	9.35	7.69	13.41	0.392	8.44	7.43
10/17/2008	17:30:08	13.3	0.388	12.95	7.97	13.24	0.385	9.33	7.69	13.39	0.393	8.44	7.43
10/17/2008	17:45:08	13.24	0.389	12.32	7.97	13.19	0.386	9.34	7.69	13.37	0.394	8.44	7.44
10/17/2008	18:00:08	13.17	0.39	12.09	7.97	13.15	0.387	9.33	7.69	13.33	0.394	8.54	7.43
10/17/2008	18:15:08	13.1	0.391	12.81	7.97	13.11	0.388	9.32	7.69	13.3	0.395	8.44	7.44
10/17/2008	18:30:08	13.04	0.392	13.04	7.96	13.07	0.389	9.31	7.69	13.26	0.396	8.34	7.44
10/17/2008	18:45:08	12.96	0.393	13.15	7.96	13.02	0.39	9.3	7.69	13.22	0.397	8.34	7.44
10/17/2008	19:00:08	12.89	0.394	13.24	7.95	12.97	0.39	9.31	7.69	13.2	0.397	8.48	7.44
10/17/2008	19:15:08	12.81	0.395	12.52	7.95	12.92	0.391	9.31	7.69	13.13	0.398	8.36	7.44
10/17/2008	19:30:08	12.73	0.396	13.05	7.95	12.87	0.392	9.31	7.69	13.07	0.399	8.32	7.43
10/17/2008	19:45:08	12.64	0.397	13.22	7.94	12.82	0.393	9.33	7.69	13.02	0.399	8.16	7.44
10/17/2008	20:00:08	12.56	0.398	12.56	7.94	12.77	0.394	9.33	7.69	12.94	0.4	8.35	7.44
10/17/2008	20:15:08	12.48	0.399	12.3	7.94	12.72	0.395	9.33	7.7	12.9	0.401	7.82	7.44
10/17/2008	20:30:08	12.4	0.399	12.11	7.94	12.67	0.396	9.32	7.7	12.83	0.401	8.18	7.44
10/17/2008	20:45:08	12.32	0.4	11.99	7.94	12.62	0.397	9.34	7.7	12.75	0.402	8.25	7.43
10/17/2008	21:00:08	12.24	0.401	12.82	7.93	12.58	0.398	9.35	7.7	12.7	0.403	8.27	7.44
10/17/2008	21:15:08	12.16	0.402	12.06	7.93	12.53	0.399	9.35	7.7	12.61	0.404	8.28	7.43
10/17/2008	21:30:08	12.08	0.403	12.94	7.93	12.49	0.399	9.38	7.7	12.55	0.404	8.36	7.43
10/17/2008	21:45:08	12.01	0.404	13.26	7.93	12.44	0.4	9.36	7.71	12.48	0.405	8.38	7.43
10/17/2008	22:00:08	11.93	0.404	13.44	7.93	12.4	0.401	9.38	7.71	12.48	0.405	8.25	7.44
10/17/2008	22:15:08	11.86	0.405	13.6	7.93	12.35	0.401	9.38	7.71	12.37	0.406	8.39	7.43
10/17/2008	22:30:08	11.79	0.406	13.71	7.93	12.32	0.402	9.39	7.71	12.3	0.406	8.41	7.44
10/17/2008	22:45:08	11.73	0.406	13.8	7.93	12.28	0.402	9.4	7.71	12.25	0.407	8.28	7.44
10/17/2008	23:00:08	11.68	0.407	13.87	7.93	12.24	0.403	9.43	7.71	12.19	0.407	8.19	7.44

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/17/2008	23:15:08	11.62	0.409	13.92	7.93	12.21	0.404	9.41	7.71	12.13	0.408	8.28	7.44
10/17/2008	23:30:08	11.57	0.409	13.96	7.93	12.17	0.404	9.45	7.71	12.08	0.409	8.28	7.44
10/17/2008	23:45:08	11.52	0.41	14	7.93	12.13	0.405	9.44	7.71	12	0.41	8.42	7.44
10/18/2008	0:00:08	11.47	0.411	13.41	7.93	12.1	0.406	9.44	7.72	11.98	0.41	8.24	7.44
10/18/2008	0:15:08	11.44	0.412	13.75	7.93	12.06	0.407	9.46	7.72	11.91	0.411	8.24	7.44
10/18/2008	0:30:08	11.39	0.413	13.89	7.93	12.03	0.407	9.46	7.72	11.84	0.411	8.13	7.45
10/18/2008	0:45:08	11.35	0.413	14	7.93	11.99	0.408	9.47	7.72	11.79	0.412	8.23	7.44
10/18/2008	1:00:08	11.32	0.415	13.4	7.94	11.96	0.409	9.49	7.72	11.74	0.412	8.33	7.44
10/18/2008	1:15:08	11.28	0.416	13.08	7.94	11.92	0.409	9.5	7.72	11.7	0.413	8.27	7.45
10/18/2008	1:30:08	11.25	0.416	13.6	7.94	11.88	0.41	9.51	7.72	11.62	0.414	8.34	7.45
10/18/2008	1:45:08	11.22	0.417	13.8	7.94	11.84	0.411	9.51	7.73	11.57	0.414	8.36	7.45
10/18/2008	2:00:08	11.19	0.418	13.17	7.94	11.81	0.411	9.53	7.73	11.53	0.415	8.39	7.44
10/18/2008	2:15:08	11.16	0.419	12.92	7.94	11.77	0.412	9.55	7.73	11.48	0.415	8.34	7.45
10/18/2008	2:30:08	11.14	0.419	13.5	7.94	11.74	0.413	9.56	7.73	11.44	0.416	8.43	7.44
10/18/2008	2:45:08	11.11	0.42	13.74	7.94	11.71	0.413	9.58	7.73	11.39	0.416	8.43	7.45
10/18/2008	3:00:08	11.09	0.42	13.86	7.94	11.67	0.414	9.56	7.73	11.35	0.417	8.46	7.45
10/18/2008	3:15:08	11.06	0.421	13.97	7.94	11.63	0.414	9.59	7.74	11.29	0.418	8.61	7.45
10/18/2008	3:30:08	11.04	0.422	14.02	7.94	11.6	0.415	9.57	7.74	11.26	0.418	8.61	7.45
10/18/2008	3:45:08	11.02	0.423	14.05	7.94	11.57	0.416	9.59	7.74	11.21	0.419	8.59	7.45
10/18/2008	4:00:08	11	0.423	14.09	7.94	11.54	0.416	9.59	7.74	11.2	0.419	8.45	7.45
10/18/2008	4:15:08	10.99	0.424	14.05	7.94	11.51	0.417	9.61	7.74	11.14	0.42	8.48	7.46
10/18/2008	4:30:08	10.96	0.424	14.08	7.94	11.48	0.417	9.62	7.74	11.1	0.421	8.59	7.46
10/18/2008	4:45:08	10.94	0.425	13.52	7.95	11.44	0.418	9.62	7.74	11.07	0.421	8.52	7.46
10/18/2008	5:00:08	10.92	0.426	13.16	7.95	11.41	0.419	9.64	7.74	11.04	0.421	8.59	7.46
10/18/2008	5:15:08	10.89	0.427	13.67	7.95	11.37	0.419	9.64	7.75	11	0.422	8.54	7.47
10/18/2008	5:30:08	10.85	0.428	13.13	7.95	11.33	0.42	9.66	7.75	10.96	0.422	8.57	7.47
10/18/2008	5:45:08	10.83	0.428	13.64	7.95	11.29	0.42	9.66	7.75	10.92	0.423	8.56	7.46
10/18/2008	6:00:08	10.8	0.429	13.83	7.95	11.25	0.421	9.68	7.75	10.9	0.423	8.57	7.46
10/18/2008	6:15:08	10.77	0.431	13.19	7.96	11.21	0.422	9.7	7.75	10.86	0.424	8.67	7.47
10/18/2008	6:30:08	10.74	0.432	12.96	7.96	11.18	0.422	9.7	7.75	10.82	0.425	8.61	7.46
10/18/2008	6:45:08	10.72	0.432	13.56	7.96	11.14	0.423	9.7	7.76	10.78	0.425	8.62	7.46
10/18/2008	7:00:08	10.69	0.433	13.82	7.96	11.1	0.423	9.72	7.76	10.76	0.425	8.73	7.46
10/18/2008	7:15:08	10.66	0.434	13.12	7.96	11.06	0.424	9.73	7.76	10.71	0.426	8.72	7.46
10/18/2008	7:30:08	10.63	0.434	13.7	7.96	11.02	0.424	9.74	7.76	10.7	0.427	8.71	7.46
10/18/2008	7:45:08	10.6	0.435	13.88	7.96	10.98	0.425	9.76	7.76	10.65	0.427	8.76	7.46
10/18/2008	8:00:08	10.58	0.435	14	7.96	10.95	0.425	9.77	7.76	10.62	0.428	8.69	7.47
10/18/2008	8:15:08	10.55	0.436	13.34	7.96	10.91	0.426	9.81	7.77	10.58	0.428	8.78	7.47
10/18/2008	8:30:08	10.53	0.437	13.85	7.96	10.88	0.426	9.8	7.77	10.55	0.429	8.82	7.47
10/18/2008	8:45:08	10.5	0.437	14.02	7.97	10.85	0.427	9.82	7.77	10.53	0.429	8.8	7.47
10/18/2008	9:00:08	10.48	0.437	14.12	7.97	10.83	0.427	9.84	7.77	10.49	0.43	8.75	7.47
10/18/2008	9:15:08	10.47	0.438	14.2	7.97	10.8	0.428	9.88	7.78	10.47	0.43	8.84	7.47
10/18/2008	9:30:08	10.46	0.439	14.26	7.97	10.8	0.428	9.89	7.78	10.44	0.431	8.75	7.47
10/18/2008	9:45:08	10.46	0.439	14.41	7.98	10.79	0.429	9.94	7.78	10.43	0.431	8.8	7.46
10/18/2008	10:00:08	10.48	0.44	14.39	7.98	10.8	0.429	9.95	7.79	10.42	0.432	8.79	7.47
10/18/2008	10:15:08	10.49	0.44	14.46	7.99	10.8	0.43	9.97	7.79	10.42	0.432	8.61	7.48
10/18/2008	10:30:08	10.52	0.441	13.9	8	10.8	0.43	10	7.79	10.4	0.433	8.73	7.47
10/18/2008	10:45:08	10.54	0.442	14.28	8	10.79	0.431	10.01	7.8	10.4	0.434	8.87	7.47
10/18/2008	11:00:08	10.56	0.442	14.46	8.01	10.82	0.431	10.05	7.8	10.41	0.434	8.81	7.47
10/18/2008	11:15:08	10.65	0.443	14.53	8.01	10.85	0.432	10.08	7.8	10.44	0.434	8.8	7.47
10/18/2008	11:30:08	10.74	0.443	13.97	8.02	10.88	0.433	10.08	7.81	10.46	0.435	8.81	7.47
10/18/2008	11:45:08	10.84	0.444	14.44	8.03	10.92	0.433	10.13	7.81	10.49	0.436	8.92	7.48
10/18/2008	12:00:08	10.92	0.444	14.58	8.04	10.98	0.434	10.16	7.82	10.54	0.436	8.97	7.48
10/18/2008	12:15:08	11	0.444	14.6	8.04	11.03	0.435	10.17	7.82	10.61	0.436	9.08	7.48
10/18/2008	12:30:08	11.03	0.445	14.03	8.06	11.09	0.435	10.18	7.83	10.67	0.437	9.13	7.49
10/18/2008	12:45:08	11.09	0.445	14.49	8.06	11.15	0.436	10.19	7.83	10.77	0.437	8.96	7.48
10/18/2008	13:00:08	11.14	0.445	13.89	8.07	11.21	0.436	10.22	7.83	10.85	0.438	9.01	7.48
10/18/2008	13:15:08	11.28	0.446	14.5	8.07	11.27	0.437	10.28	7.84	10.93	0.439	9.13	7.48
10/18/2008	13:30:08	11.34	0.446	14.62	8.09	11.33	0.438	10.27	7.84	11.01	0.439	9.16	7.48
10/18/2008	13:45:08	11.34	0.447	14.75	8.1	11.36	0.438	10.28	7.85	11.07	0.439	9.13	7.48
10/18/2008	14:00:08	11.41	0.447	14.74	8.1	11.41	0.438	10.29	7.85	11.1	0.44	9.19	7.49
10/18/2008	14:15:08	11.46	0.448	14.75	8.1	11.43	0.439	10.3	7.85	11.15	0.441	9.26	7.49

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/18/2008	14:30:08	11.47	0.449	14.74	8.11	11.43	0.44	10.29	7.85	11.17	0.442	9.18	7.5
10/18/2008	14:45:08	11.57	0.448	14.08	8.11	11.43	0.44	10.29	7.86	11.21	0.442	9.11	7.5
10/18/2008	15:00:08	11.6	0.448	14.48	8.12	11.42	0.44	10.29	7.86	11.22	0.442	9.22	7.5
10/18/2008	15:15:08	11.63	0.449	14.64	8.12	11.48	0.441	10.31	7.86	11.25	0.443	9.3	7.5
10/18/2008	15:30:08	11.68	0.45	14.64	8.12	11.47	0.441	10.3	7.86	11.28	0.444	9.35	7.5
10/18/2008	15:45:08	11.71	0.45	13.93	8.13	11.44	0.442	10.26	7.86	11.29	0.444	9.31	7.5
10/18/2008	16:00:08	11.71	0.451	13.57	8.14	11.43	0.443	10.25	7.86	11.3	0.444	9.3	7.5
10/18/2008	16:15:08	11.78	0.452	14.15	8.13	11.43	0.443	10.25	7.86	11.33	0.445	9.25	7.5
10/18/2008	16:30:08	11.74	0.453	13.4	8.13	11.43	0.444	10.24	7.86	11.34	0.445	9.18	7.49
10/18/2008	16:45:08	11.74	0.453	14.01	8.13	11.41	0.444	10.23	7.86	11.38	0.445	9.36	7.5
10/18/2008	17:00:08	11.8	0.453	14.18	8.13	11.39	0.445	10.18	7.86	11.41	0.445	9.32	7.51
10/18/2008	17:15:08	11.76	0.454	13.38	8.14	11.38	0.446	10.17	7.86	11.43	0.446	9.34	7.51
10/18/2008	17:30:08	11.83	0.454	13.98	8.13	11.36	0.446	10.14	7.86	11.45	0.447	9.27	7.51
10/18/2008	17:45:08	11.83	0.455	13.23	8.13	11.33	0.447	10.12	7.86	11.44	0.447	9.36	7.51
10/18/2008	18:00:08	11.83	0.455	13.81	8.13	11.3	0.447	10.07	7.85	11.45	0.447	9.31	7.52
10/18/2008	18:15:08	11.8	0.456	14.01	8.13	11.26	0.448	10.06	7.85	11.44	0.448	9.27	7.52
10/18/2008	18:30:08	11.77	0.456	13.14	8.12	11.22	0.448	10.02	7.85	11.44	0.448	9.33	7.52
10/18/2008	18:45:08	11.73	0.455	12.7	8.12	11.17	0.448	10	7.85	11.43	0.449	9.22	7.53
10/18/2008	19:00:08	11.69	0.456	13.37	8.11	11.13	0.449	9.99	7.84	11.42	0.449	9.23	7.52
10/18/2008	19:15:08	11.65	0.458	13.59	8.1	11.09	0.449	9.96	7.84	11.41	0.45	9.34	7.52
10/18/2008	19:30:08	11.61	0.458	13.73	8.09	11.05	0.45	9.96	7.84	11.39	0.45	9.19	7.52
10/18/2008	19:45:08	11.56	0.458	13.85	8.09	11.01	0.45	9.94	7.84	11.38	0.45	9.14	7.52
10/18/2008	20:00:08	11.48	0.46	13.89	8.08	10.96	0.451	9.91	7.84	11.36	0.451	9.25	7.52
10/18/2008	20:15:08	11.46	0.46	12.99	8.08	10.92	0.451	9.92	7.83	11.32	0.452	9.14	7.51
10/18/2008	20:30:08	11.4	0.46	13.55	8.07	10.86	0.451	9.93	7.83	11.29	0.452	9.13	7.51
10/18/2008	20:45:08	11.32	0.461	13.75	8.06	10.82	0.452	9.9	7.83	11.26	0.452	9.05	7.5
10/18/2008	21:00:08	11.27	0.462	12.98	8.06	10.78	0.453	9.91	7.83	11.23	0.453	9	7.51
10/18/2008	21:15:08	11.19	0.462	13.55	8.05	10.73	0.453	9.9	7.83	11.2	0.453	9.07	7.51
10/18/2008	21:30:08	11.11	0.463	13.8	8.04	10.68	0.454	9.9	7.83	11.15	0.453	9.05	7.52
10/18/2008	21:45:08	11.05	0.463	13.86	8.04	10.63	0.454	9.9	7.83	11.09	0.454	9	7.51
10/18/2008	22:00:08	10.98	0.463	14.01	8.03	10.59	0.455	9.9	7.83	11.05	0.455	8.97	7.51
10/18/2008	22:15:08	10.9	0.464	13.23	8.03	10.56	0.455	9.92	7.83	11.01	0.455	8.99	7.51
10/18/2008	22:30:08	10.83	0.465	12.83	8.02	10.54	0.455	9.89	7.83	10.97	0.455	8.97	7.51
10/18/2008	22:45:08	10.77	0.464	13.47	8.01	10.51	0.456	9.92	7.83	10.94	0.456	8.95	7.51
10/18/2008	23:00:08	10.7	0.466	13.76	8.01	10.48	0.456	9.93	7.82	10.89	0.456	8.81	7.51
10/18/2008	23:15:08	10.69	0.466	13.85	8	10.44	0.457	9.91	7.82	10.84	0.456	8.82	7.51
10/18/2008	23:30:08	10.58	0.467	13.13	8	10.41	0.457	9.93	7.82	10.79	0.457	8.78	7.51
10/18/2008	23:45:08	10.51	0.467	12.78	8	10.38	0.457	9.94	7.82	10.76	0.458	8.73	7.51
10/19/2008	0:00:08	10.47	0.468	13.43	7.99	10.34	0.458	9.95	7.82	10.7	0.458	8.66	7.51
10/19/2008	0:15:08	10.36	0.469	13.79	7.99	10.3	0.458	9.94	7.82	10.63	0.458	8.75	7.5
10/19/2008	0:30:08	10.25	0.469	13.94	7.98	10.25	0.459	9.94	7.82	10.6	0.458	8.72	7.51
10/19/2008	0:45:08	10.24	0.47	14.02	7.98	10.21	0.459	9.94	7.82	10.56	0.459	8.49	7.51
10/19/2008	1:00:08	10.14	0.47	13.23	7.98	10.17	0.46	9.94	7.82	10.49	0.46	8.56	7.51
10/19/2008	1:15:08	10.09	0.47	13.8	7.98	10.12	0.46	9.94	7.82	10.46	0.46	8.56	7.5
10/19/2008	1:30:08	9.99	0.471	14.07	7.97	10.09	0.461	9.95	7.82	10.39	0.46	8.67	7.5
10/19/2008	1:45:08	9.9	0.472	14.21	7.97	10.04	0.461	9.95	7.82	10.35	0.461	8.66	7.5
10/19/2008	2:00:08	9.85	0.471	14.27	7.97	10	0.461	9.95	7.82	10.28	0.461	8.58	7.5
10/19/2008	2:15:08	9.77	0.473	14.4	7.97	9.95	0.462	9.97	7.82	10.24	0.461	8.65	7.51
10/19/2008	2:30:08	9.64	0.474	13.67	7.97	9.92	0.462	9.96	7.82	10.2	0.461	8.62	7.51
10/19/2008	2:45:08	9.63	0.474	14.15	7.97	9.87	0.463	9.98	7.82	10.13	0.462	8.52	7.51
10/19/2008	3:00:08	9.53	0.474	13.49	7.97	9.83	0.463	9.98	7.82	10.09	0.463	8.51	7.51
10/19/2008	3:15:08	9.51	0.475	14.03	7.97	9.78	0.464	9.98	7.83	10.03	0.463	8.53	7.51
10/19/2008	3:30:08	9.4	0.475	14.28	7.96	9.74	0.464	9.99	7.83	9.96	0.463	8.51	7.51
10/19/2008	3:45:08	9.39	0.476	14.46	7.97	9.69	0.465	9.99	7.83	9.93	0.464	8.28	7.51
10/19/2008	4:00:08	9.26	0.477	14.51	7.96	9.64	0.465	10.01	7.83	9.84	0.464	8.45	7.5
10/19/2008	4:15:08	9.21	0.476	14.56	7.97	9.6	0.465	10.02	7.83	9.81	0.465	8.47	7.5
10/19/2008	4:30:08	9.16	0.477	14.59	7.96	9.55	0.466	10.04	7.83	9.76	0.465	8.36	7.5
10/19/2008	4:45:08	9.06	0.478	14.59	7.96	9.5	0.466	10.06	7.83	9.69	0.466	8.36	7.51
10/19/2008	5:00:08	9.02	0.478	13.97	7.96	9.45	0.467	10.05	7.83	9.68	0.466	8.21	7.52
10/19/2008	5:15:08	8.94	0.478	13.67	7.97	9.4	0.467	10.09	7.83	9.6	0.467	8.3	7.51
10/19/2008	5:30:08	8.92	0.479	13.43	7.97	9.35	0.467	10.09	7.83	9.51	0.467	8.43	7.5

EXHIBIT F

Beaver Creek Continuous Dissolved Oxygen, pH, Conductivity, and Temperature Data

		RM 7.00				RM 8.15				RM 9.10			
Date M/D/Y	Time hh:mm:ss	Temp C	SpCond mS/cm	DO Conc mg/L	pH	Temp C	SpCond mS/cm	DO Conc mg/L	pH ERRORS	Temp C	SpCond mS/cm	DO Conc mg/L	pH
10/19/2008	5:45:08	8.84	0.479	14.08	7.97	9.31	0.468	10.1	7.84	9.48	0.467	8.43	7.51
10/19/2008	6:00:08	8.77	0.479	14.37	7.97	9.26	0.468	10.12	7.84	9.43	0.467	8.33	7.5
10/19/2008	6:15:08	8.69	0.48	14.62	7.97	9.21	0.469	10.13	7.84	9.39	0.468	8.27	7.51
10/19/2008	6:30:08	8.65	0.48	13.92	7.97	9.16	0.469	10.14	7.84	9.29	0.468	8.39	7.51
10/19/2008	6:45:08	8.55	0.481	13.62	7.97	9.11	0.469	10.14	7.84	9.27	0.469	8.39	7.51
10/19/2008	7:00:08	8.62	0.48	13.37	7.97	9.06	0.47	10.15	7.84	9.22	0.469	8.35	7.5
10/19/2008	7:15:08	8.46	0.481	13.31	7.98	9	0.47	10.17	7.84	9.12	0.469	8.53	7.5
10/19/2008	7:30:08	8.39	0.482	14.09	7.97	8.96	0.471	10.2	7.84	9.08	0.47	8.52	7.51
10/19/2008	7:45:08	8.3	0.483	14.38	7.97	8.91	0.471	10.2	7.84	9.05	0.47	8.48	7.52
10/19/2008	8:00:08	8.32	0.483	13.57	7.97	8.86	0.471	10.22	7.84	8.99	0.47	8.37	7.52
10/19/2008	8:15:08	8.23	0.483	13.39	7.97	8.81	0.471	10.25	7.85	8.91	0.471	8.45	7.51
10/19/2008	8:30:08	8.14	0.484	14.26	7.97	8.78	0.472	10.26	7.85	8.88	0.471	8.42	7.52
10/19/2008	8:45:08	8.11	0.484	14.58	7.98	8.75	0.472	10.27	7.85	8.83	0.472	8.41	7.52
10/19/2008	9:00:08	8.03	0.484	13.76	7.98	8.74	0.472	10.29	7.85	8.79	0.472	8.31	7.52
10/19/2008	9:15:08	8	0.485	14.53	7.98	8.73	0.473	10.31	7.85	8.76	0.472	8.17	7.53
10/19/2008	9:30:08	8.02	0.485	14.81	7.98	8.74	0.473	10.36	7.85	8.72	0.473	8.23	7.52
10/19/2008	9:45:08	7.98	0.486	14.04	7.99	8.75	0.474	10.4	7.86	8.69	0.473	8.32	7.52
10/19/2008	10:00:08	7.97	0.486	14.78	7.99	8.78	0.474	10.42	7.86	8.64	0.473	8.56	7.51
10/19/2008	10:15:08	8	0.486	14.03	7.99	8.79	0.474	10.44	7.86	8.62	0.474	8.53	7.53
10/19/2008	10:30:08	8.03	0.486	14.82	8	8.82	0.475	10.45	7.87	8.61	0.474	8.41	7.52
10/19/2008	10:45:08	8.04	0.487	15.15	8	8.86	0.475	10.47	7.87	8.58	0.475	8.37	7.52
10/19/2008	11:00:08	8.08	0.487	15.35	8.01	8.91	0.475	10.5	7.87	8.57	0.475	8.51	7.52
10/19/2008	11:15:08	8.15	0.487	15.54	8.01	8.96	0.476	10.52	7.88	8.57	0.475	8.4	7.53
10/19/2008	11:30:08	8.21	0.488	15.75	8.02	9	0.476	10.53	7.88	8.58	0.476	8.53	7.52
10/19/2008	11:45:08	8.28	0.489	15.87	8.02	9.06	0.476	10.57	7.88	8.61	0.476	8.55	7.52
10/19/2008	12:00:08	8.4	0.489	15.13	8.03	9.13	0.476	10.59	7.89	8.65	0.476	8.51	7.52
10/19/2008	12:15:08	8.51	0.489	15.68	8.03	9.2	0.477	10.64	7.89	8.68	0.476	8.65	7.53
10/19/2008	12:30:08	8.58	0.489	14.95	8.05	9.29	0.477	10.66	7.9	8.72	0.476	8.62	7.52
10/19/2008	12:45:08	8.7	0.489	15.44	8.04	9.36	0.478	10.68	7.9	8.78	0.477	8.59	7.52
10/19/2008	13:00:08	8.84	0.488	14.88	8.05	9.46	0.478	10.7	7.9	8.86	0.477	8.27	7.53
10/19/2008	13:15:08	8.94	0.489	15.54	8.05	9.55	0.479	10.73	7.91	8.94	0.478	8.48	7.51
10/19/2008	13:30:08	9.03	0.49	15.79	8.07	9.62	0.479	10.72	7.91	9.06	0.478	8.59	7.5
10/19/2008	13:45:08	9.13	0.49	15.95	8.08	9.7	0.479	10.73	7.91	9.13	0.479	8.56	7.5
10/19/2008	14:00:08	9.18	0.491	16.05	8.08	9.78	0.48	10.74	7.92	9.27	0.479	8.63	7.5
10/19/2008	14:15:08	9.24	0.491	15.26	8.08	9.86	0.48	10.74	7.92	9.44	0.479	8.67	7.51
10/19/2008	14:30:08	9.31	0.492	15.78	8.09	9.93	0.481	10.74	7.92	9.55	0.479	8.94	7.52
10/19/2008	14:45:08	9.37	0.492	16	8.1	10	0.48	10.73	7.93	9.58	0.48	9.09	7.51
10/19/2008	15:00:08	9.41	0.493	16.19	8.1	10.07	0.48	10.75	7.93	9.65	0.48	8.89	7.51
10/19/2008	15:15:08	9.49	0.493	16.17	8.1	10.11	0.48	10.75	7.93	9.7	0.48	9.35	7.53
10/19/2008	15:30:08	9.54	0.493	15.44	8.11	10.16	0.481	10.72	7.93	9.71	0.481	9.42	7.53
10/19/2008	15:45:08	9.65	0.493	15.87	8.12	10.2	0.481	10.74	7.94	9.71	0.482	9.2	7.54
10/19/2008	16:00:08	9.71	0.494	16.05	8.12	10.25	0.481	10.71	7.94	9.74	0.482	8.79	7.54
10/19/2008	16:15:08	9.79	0.494	16.11	8.12	10.29	0.482	10.68	7.94	9.76	0.482	9.16	7.55
10/19/2008	16:30:08	9.84	0.494	16.09	8.13	10.32	0.483	10.69	7.94	9.77	0.483	9.49	7.54
10/19/2008	16:45:08	9.87	0.495	15.41	8.15	10.31	0.483	10.66	7.94	9.78	0.483	9.54	7.54