Narragansett Bay Commission 2010 Data Report

Prepared by the staff of the Environmental Monitoring & Data Analysis Section

April 1, 2011

Narragansett Bay Commission
Environmental Monitoring and Data Analysis Section 2010Data Report

Introduction

Field's Point and Bucklin Point Plant Data

Figures

Tables

The Narragansett Bay Commission

The Narragansett Bay Commission, or the NBC, was created in 1980 by the R.I. General Assembly to reduce the amount of pollutants Providence's Field's Point Wastewater Treatment Facility was discharging into Narragansett Bay and its tributaries. At that time, nearly 65 million gallons of untreated sewage flowed into Rhode Island's waterways every day, resulting in temporary and permanent closures of shellfishing beds in Upper Narragansett Bay, violations of federal laws, and most importantly, a serious threat to public health and the region's environmental and economic well-being.

EMDA staff conducting Industry Sampling

The NBC acquired the facility from the City of Providence in 1982 and with statewide voter approval of an $87.7 million bond referendum, the NBC transformed this dilapidated facility, the third oldest wastewater treatment plant in the nation, into a state-of-the-art award winning facility. As the largest secondary wastewater treatment facility

in Rhode Island and the second largest in New England, the Field's Point Wastewater Treatment Facility provides preliminary and primary treatment for up to 200 million gallons per day (MGD) of wastewater, secondary treatment for up to 91 MGD and has an average dry weather flow to the facility of 45.5 MGD.

In 1992, the R.I. General Assembly expanded the NBC's mission by placing it in charge of the Bucklin Point Wastewater Treatment Facility in East Providence. This facility is designed to provide preliminary and primary treatment for up to 116 million gallons per day, secondary treatment for up to 46 million gallons per day, and has an average dry weather flow to the facility of 23.9 MGD. During 1999, supervisory management of this plant was privatized to Professional Services Group (PSG), and is currently managed by Aquarion Services Company. The plant has recently undergone major upgrades to include new screening and grit facilities, wet weather facilities capable of providing primary treatment and disinfection, new fine bubble-diffusion aeration system, nutrients removal facilities, and ultraviolet disinfection of wastewater, eliminating the need to add chemicals to disinfect and dechlorinate wastewater prior to discharge.

NBC Laboratory staff analyzing a micro sample

The NBC now owns and operates the state's two largest wastewater treatment facilities and provides quality wastewater collection and treatment services to about 360,000 persons and 7,700 commercial and industrial customers located in Providence, North Providence, Johnston, Pawtucket, Central Falls, Cumberland, Lincoln, the northern portion of East Providence, and small sections of Cranston and Smithfield.

Environmental Monitoring and Data Analysis Program Overview

The Environmental Monitoring and Data Analysis (EMDA) section evolved from the Pretreatment section, where prior to 1992, two Engineering Technicians, assisted by Pretreatment staff, implemented the industrial and manhole monitoring activities. With the acquisition of the Bucklin Point Wastewater Treatment Facility in 1992, there were two separate and distinct Pretreatment Programs, one for each treatment facility. Shortly thereafter, the two Pretreatment Programs were united and the Environmental Monitoring Program and Data Analysis section was created within the NBC Planning, Policy and Regulation Division. Over the years, the Environmental Monitoring and Data Analysis section has evolved and is now responsible not only for industrial and manhole monitoring activities, but for all aspects of environmental monitoring for the NBC. EMDA staff conduct compliance monitoring for both treatment plants, river monitoring to support NBC's Interceptors and Maintenance section in their efforts to quickly locate and stop dry weather discharges of Combined Sewer Overflows (CSO), monitoring the upper bay for fecal coliform contamination to determine background levels as support to NBC Engineering staff to assess the effectiveness of the CSO abatement tunnel and acquire valuable data for future phases of this project, sampling of suspected hazardous waste found in sewers during routine line cleanings and in other NBC facilities during decommissioning and demolition activities, and other sampling as needed. EMDA staff also conducts many sampling initiatives to evaluate effectiveness of new technologies, such as nutrients removal and ultraviolet disinfection, to name just two examples.

In 2002, the NBC was awarded an EPA grant to develop a website to provide real time data of the upper bay receiving waters of the NBC plant outfalls. A fixed site station was constructed at an abandoned pier at Phillipsdale Landing in East Providence, and a state-of-the-art monitoring buoy was acquired and deployed at Bullock's Reach, just north of Conimicut Point in the Upper Narragansett Bay. These sites provided invaluable data to the RI DEM and the scientific community over the past several years and played a key role to these stakeholders in their investigation to understand the August 2003 fish kills associated with hypoxic events in Narragansett Bay. As a result of these fish kill events, the Governor established a Bays, Rivers and Watershed Coordination Team, of which the NBC is a member. The NBC is also a valuable contributing member of the Rhode Island Environmental Monitoring Collaborative, a subgroup of the Coordination team formed by Governor Carcieri. The NBC has coordinated monitoring activities with other agencies performing monitoring statewide, and as a result the NBC EMDA section's role in environmental monitoring and compliance issues continues to expand as compliance issues become ever more complex.

The Environmental Monitoring & Data Analysis Section continues to perform the following monitoring activities:

- Daily sampling of NBC's two plants to satisfy RIPDES requirements;
- Sampling of each Significant Industrial User at least twice annually to satisfy and exceed EPA Pretreatment Program mandates;
- Weekly monitoring of surveillance manholes to satisfy EPA mandates;

- Monitoring of sanitary manholes to obtain data required for local limits development;
- Weekly sampling of the Urban Rivers for bacteria analysis;
- Sampling of 19 locations in the NBC receiving waters of the Providence and Seekonk Rivers for bacteria analysis;
- Special project sampling for the NBC Engineering, Operations and other sections to assist in facilities planning, improvements to plant operations, etc;
- Routine maintenance of the EMPACT monitoring buoy and fixed station site to ensure accurate data to state partners and the public.

The NBC EMDA section has always done an excellent job of implementing monitoring initiatives; however in the past the public has had to specifically request data results of the NBC's sampling activities. In 2005 an annual report summarizing the 2004 monitoring data and activities of the Narragansett Bay Commission's Environmental Monitoring and Data Analysis section was published. This was a great accomplishment to be able to disseminate all of the monitoring data collected by EMDA and provide statistical analyses and discern trends and fluctuations in the data over time; however, because of the vast body of data collected and analysis that was done for each data set, this type of report became too large and cumbersome to create yearly. Therefore, in order to get the data to the public sooner, a more streamlined presentation of data without a formal analysis was created for monitoring results for each year since 2007. This report serves as a format for public dissemination of all 2010 EMDA monitoring data. In the coming months the NBC will publish a series of additional task reports with in-depth interpretation and analysis of the various data sets contained in this report.

Acknowledgements

This report has been prepared by the staff of the Environmental Monitoring and Data Analysis section, under the general direction of Thomas P. Uva, Director of Planning, Policy and Regulation. This report is a summation of the collective efforts by the Environmental Monitors and Monitoring Field Supervisors that collected in excess of 27,585 during 2010. It represents the countless hours of processing, compiling, analyzing and interpreting all the data by the Environmental Scientists and Assistant Manager as all this data will be used to publish task reports, and data entry and general assistance by clerical staff. The laboratory staff analyzed all of the samples collected by the EMDA section. In total, during 2010, the Laboratory generated 108,023 analyses from the samples delivered to it. A special acknowledgement and thank you to the NBC EMDA and Laboratory staffs that made this report possible:

John Motta
Environmental Monitoring Manager

James Kelly
Assistant Environmental Monitoring Manager

Catherine Oliver, Christine Comeau
Environmental Scientists

Sara Nadeau, Rebecca Songolo, Jeffrey Tortorella
Monitoring Field Supervisors

Kevin Wilcox, Stephen DePasquale, Jared Urban, Michael Golenia, Ernie Nastari, Marcos Quinones, David Thacker, and Fern Johnson
Environmental Monitors

Joanne Parker
Data Clerk

Jamie Cook
Data Clerk

Walter Palm
Laboratory Manager

Angelina Glater
Assistant Laboratory Manager

Lauren Lessuck
Senior Organic Chemist

Elizabeth Teixeira
Senior Environmental Chemist

Nora-Jean Lough
Biologist

Amanda Henry
LIMS Administer/Sample Coordinator

Kim Sandbach, Kara Taglianetti
Environmental Chemists

Janet Luu, Cheryl Manger
Chemists

Ralph Ruggiano, Edward Davies, Leslie Ahlborg, Robert Noonan, William Beaudry
Laboratory Technicians

Katherine Archambault
Laboratory Clerk

The NBC also acknowledges the support given to the EMDA section by the NBC Chairman, Commissioner Vincent J. Mesolella, the Board of Commissioners, the Executive Director, Raymond Marshall, and all the NBC Directors.

Field's Point and Bucklin Point POTW
Sample Collection Methodology and Practices

Introduction

It is the Narragansett Bay Commission's (NBC) mission to protect and enhance the water quality of Narragansett Bay and its tributaries through careful collection and treatment of wastewater from residences, businesses and industries in the NBC District. The Environmental Monitoring and Data Analysis (EMDA) section's primary objective is to perform routine and adequate sampling of a wide variety of parameters to ensure that both the Field's Point and Bucklin Point Wastewater Treatment Facilities (WWTF) are effectively meeting operational and RIPDES permit requirements. An extensive sampling schedule employing composite and grab samples within the two wastewater treatment facilities at the raw influent, primary influent, primary effluent, mixed liquor, return activated sludge, final sludge, and final effluent are necessary to keep abreast of what is introduced to and discharged from each plant, and the removal efficiencies of all conventional and non-conventional pollutants. Synthesis of this data is a continuous and ongoing process with monthly evaluations required for RIPDES discharge monitoring reports as well as periodic evaluation of the local limits that the pretreatment section uses to regulate industrial and commercial users (SIU) and ensure that no upset, pollutant pass-through, process interference, or discharge permit limit violations occur. Clean sampling and sample-handling techniques, high quality laboratory measurements, and ease of access to this data are the necessary ingredients to providing accurate data to quickly identify potential problems within the plant, and to routinely reassess the removal efficiency of pollutants. All sample collection, preservation, and storage at the Field's Point and Bucklin Point WWTFs are performed with strict adherence to U.S. EPA protocols. The current RIPDES permits require sampling of the influent and effluent wastewater streams at the Field's Point and Bucklin Point WWTFs for toxic and conventional pollutants on a regular basis.

NBC's continuing goal is to improve receiving water quality by limiting the impact of WWTF effluent on Narragansett Bay. The NBC has analyzed and tracked the toxic pollutant loading trends at its treatment facilities since the creation of the agency. EMDA works in conjunction with the Pretreatment, Laboratory, Operations, and Engineering Sections of NBC to conduct sampling of wastewater from its sources, throughout its collection and treatment systems, and ultimately to its final fate as either sludge or as effluent in Narragansett Bay. In support of NBC's mission and RIDPES requirements, the EMDA section collected 27,585 samples and the NBC lab analyzed these samples for 108,023 parameters during 2010. WWTF sampling data for 2010 is attached and can be found in Tables 1–19. Table numbers are also referred to in each section below.

Collection of Samples at Field's Point and Bucklin Point

Samples collected to evaluate the WWTF process are either composite samples collected over a particular time period or grab samples.
Composite samples are formed by combining discrete samples taken at periodic points in time. Refrigerated ISCO autosamplers are used throughout Field's Point and Bucklin Point to collect composite samples on a regular predetermined basis. All refrigerated autosamplers are kept at 4^{o}C. Grab samples are discrete samples collected at particular time periods but placed into separate sample bottles and are analyzed as individual samples. The differences in sampling between Field's Point and Bucklin Point mainly exist in the influent sampling at the interceptors into the facility and the retention time used to determine when influent and effluent samples are collected. Field's Point influent samples are collected on a time-paced basis at the single interceptor that feeds the facility, after bar screening and prior to grit removal tanks. Influent and effluent samples are collected 12-hours apart with the goal of sampling the same parcel of water as it enters the plant for treatment, and after treatment to evaluate the performance of the plant. Bucklin Point influent samples are collected on a time-paced basis from the two interceptors that feed the facility. Composite samples are collected from both interceptors, the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI) and mixed flow proportionally. Influent and effluent samples are collected 17-hours apart with the goal of sampling the same parcel of water as it enters the plant for treatment, and after treatment to evaluate the performance of the plant. At both facilities final effluent sample collections are time-paced and downstream of all treatment processes. The final effluent represents wastewater after complete treatment just prior to entering the receiving waters of the Providence or Seekonk River. Collection of the final effluent sample at Field's Point takes place after chlorination and dechlorination of the wastewater, in the outfall channel downstream of the chlorine contact tank. The final effluent sample at Bucklin Point is collected downstream of the UV chamber in the UV building. The following are more detailed descriptions of composite sampling at both WWTFs.

Composite Sampling at Field's Point

Composite sampling at Field's Point is done on a time paced basis. All composite samplers sample the waste stream at 30-minute intervals and take a volume of 100 ml. The samples collected are time-paced 24-hour composites of the wastewater at a sampling location.

EMDA uses refrigerated ISCO 3700 and ISCO 4700 programmable samplers. The samplers are located at the Influent/Grit Building, Primary Influent, Primary Effluent, Mixed Liquor East and Mixed Liquor West, Wet Weather Tank Influent and Effluent, and Final Effluent. Temperatures of the samplers are always maintained at 4 degrees centigrade (acceptable range is 1-6 degrees Centigrade). The Influent Daily/Metals, Primary Effluent, Effluent Daily, and Back-up samplers are configured for 24-hour time-paced composite sampling.

Two types of suction tubing are used for sampling at FPWWTF. Influent and Effluent peristaltic samplers collecting samples for trace metals use suction lines lined with Teflon®. Teflon® has characteristics that enable it to be cleaned to trace metal grade. Extra care is required in handling this tubing to prevent cracking due to its brittle nature. Peristaltic samplers not collecting trace metals samples use Tygon® tubing as suction lines. This tubing is much more resilient and pliable. The Teflon® and Tygon® suction lines both measure ½" in outer diameter and ⅜" in inner diameter. Sampler suction lines are changed semi-annually and pump tubing changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the automatic samplers weekly. This procedure takes place at the auto sampler collection site. The Teflon® tubing is also acid washed monthly.

The United States Environmental Protection Agency (USEPA) released an assessment of historically used trace metals sampling procedures. The report found that the levels of contamination from the sampling/vessel cleaning process resulted in metals levels higher than the bodies of water being sampled. Therefore, USEPA made a series of recommended sampling techniques for clean sampling that EMDA follows specifically. For Influent/ Grit Building and Final Effluent auto samplers that collect wastewater analyzed for trace metals and nutrients, special clean sampling methods are used to reduce contamination. The method requires acid cleaning of composite containers prior to use and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper cleaning. A Nalgene polyethylene carboy is used to collect composite samples for analyses of these parameters.

Composite sampling at Bucklin Point

Composite sampling at Bucklin Point is time paced. Composite sampling takes place at the Influent, Primary Effluent and Final Effluent (FE). Composite samples from the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI) are combined and analyzed together for all parameters. The autosamplers sample the wastestream at 30 minute intervals and take a volume of 100 ml. The samples collected are time-paced, 24-hour composites of the wastewater at a sampling location.

All automatic samplers used at the Bucklin Point WWTF are refrigerated peristaltic pump samplers. Automatic samplers used include the ISCO sampler model 3700, ISCO 4700 sampler, and Sigma sampler model 9000. All sample locations use the ISCO samplers, except for the Primary Treatment Effluent which uses the Sigma sampler. The samplers are configured for 24-hour time paced composite sampling. Temperatures of the refrigerated samplers are always maintained at 4 degrees centigrade (acceptable range is 1-6 degrees centigrade) and their temperature is documented three times a day by EMDA staff. Each composite carboy container has been marked with a permanent marker to identify the sampling location at which it is used.

Influent and effluent peristaltic samplers collecting samples for trace metals use special suction lines lined with Teflon®. Teflon® has characteristics that enable it to be cleaned to trace metal grade. Extra care is required in handling this tubing to prevent cracking

due to its brittle nature. Peristaltic samplers not collecting trace metals samples use Tygon® tubing as suction lines. This tubing is much more resilient and pliable. The Teflon® and Tygon® suction lines both measure ½" in outer diameter and ⅜" in inner diameter. Sampler suction lines are changed semi-annually and pump tubing changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the automatic samplers weekly. This procedure takes place at the auto sampler collection site. The Teflon® tubing is also acid washed monthly.

As mentioned above for Field's Point, Bucklin Point also uses the EPA recommended clean sampling techniques for sample collection of wastewater for metals and nutrients analyses. A Nalgene polyethylene carboy is used to collect these "clean" composite samples at Bucklin Point. The samplers are equipped with Teflon® (3/8" inner diameter) tubing and a suction line strainer is not employed to reduce contamination. The method requires acid cleaning of composite containers prior to use and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper cleaning. A Nalgene polyethylene carboy is used to collect composite samples for analyses of these parameters. Cleaning and handling of samplers, pump and suction tubing and composite carboys are also outlined in the following sections under the specific parameters analyzed.

Sample Collection for Total Suspended Solids (TSS), Biological Oxygen Demand (BOD) and Fecal Coliform

NBC's RIPDES permits require sampling of TSS and BOD daily using 24-hour composites at both the influent and effluent. As stated above, the influent and effluent samplers collect samples from the waste stream at 30 minute intervals. Carboys with collected sample water are brought to the NBC laboratory for analyses every morning around 8:00 am. EMDA staff cleans sample carboys used for TSS and BOD collections in the dishwasher after each use and carboys are replaced as necessary. Tygon® tubing is used with these samplers. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing weekly. Sampler suction lines are changed semi-annually and pump tubing changed every month.

At Field's Point WWTF two grab samples are taken at the effluent per flow day for fecal coliform bacteria analyses. EMDA staff takes the first fecal coliform sample at 08:00); operations staff takes the second sample in the time frame of 03:00-05:00. The final fecal coliform value for that day is a geomean of the two grab samples. At Bucklin Point WWTF four effluent grab samples are taken throughout the day for fecal coliform bacteria. A geomean is then determined from these results and is assigned as the fecal coliform value for that day.

The procedure for fecal coliform sampling at both WWTFs is as follows:

- Wearing new, clean Nitrile gloves place sample container in sampling device (an open-ended PVC cylinder with the bottle held in place by a small screw running

through the cylinder body. A line is attached to the cylinder body for lowering into the water)

- Open the sterile 250-ml container . Do not use if seal is broken before opening. Make sure that the sodium thiosulfate pellet remains in the bottle throughout the collection process. This chemical neutralizes residual chlorine if present.
- Place sampling device into the center of the stream, 6 inches below surface, to collect sample.
- Container must be filled to the "EPA FILL LINE".
- Remove coliform bottle from the sampling device and close container.
- Secure and seal the sample cover .
- Place label on container with time, date, collector's initials and the operator collected TRC value in ppm.
- Place in cooler with ice and transport directly to NBC laboratory.

In 2010, based upon information from the DEM that our forthcoming new RIPDES permits are likely to include effluent limitations for enterococci rather than fecal coliform, a study was initiated to analyze every plant bacteria sample for both fecal coliform and enterococci in order to be able to evaluate plant performance against the new permit limits which are expected to be 35 MPN/100 ml monthly geomean and 276 MPN/100 mL for a daily maximum geomean. The daily maximum limit could vary considerable depending on how the DEM characterizes our receiving waters. If our receiving waters are deemed "Moderate full body contact recreation then the limits would be 124 MPN/100 mL. If they are deemed "Lightly used full body contact recreation" then 276 MPN/100 mL would be the limit. If "Infrequently used full body contact recreation" is designated then the limit would be 500 MPN/mL. The study began at Field's Point on May 28th and June 8th at Bucklin Point.

TSS, BOD and fecal coliform data for 2010 can be found in the attached Tables 1 and 2. Enterococci data can be found in Tables 3 and 4.

Sample Collection for Metals and Cyanide

Toxic pollutant monitoring requirements include 24-hour composite sample collections for the analysis of copper, mercury, nickel, silver, zinc and cyanide at Field's Point and copper, lead, mercury, nickel, silver, zinc, hexavalent chromium and cyanide at Bucklin Point. Other metals that are analyzed for but are not required by the RIPDES permits include arsenic, aluminum, cadmium, iron, selenium, molybdenum, and tin. Metals and cyanide measurements are required twice-weekly at both plants except for arsenic, selenium, and molybdenum which are collected once per week in the influent and once per month in the effluent. Metals and cyanide data for 2009 can be found in the attached Tables 3-6.

The current method for collection of cyanide at both Field's Point and Bucklin Point mandates nine grab samples to be collected over a 24-hour period, separated by a minimum of two hours. The automated samplers collect discrete samples for CN analysis into one-liter containers that are pre-preserved with sodium hydroxide. These samplers

collect a 300 mL sample every two hours for 48 hours, once a week. At Bucklin Point, composite samples for cyanide and metals at the influent are collected from both interceptors, the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI) and are composites of nine separate grab samples at each location. These cyanide samples are mixed flow proportionally. At both plants, nine of the twelve grab samples from the twenty-four hour sampling period are composited into a 2 liter HDPE bottle. The pH is tested to insure it is greater than 12 before compositing. The composite is poured off into a 500 mL brown HDPE bottle.

For influent and final effluent auto samplers that collect wastewater analyzed for trace metals, special clean sampling methods are used to reduce contamination. The method requires acid cleaning of composite containers prior to use and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper cleaning. A 15-liter Nalgene polyethylene carboy is used to collect composite samples. Carboy cleaning procedures and quality assurance measures are in place to insure clean and proper sampling. Acid washed carboys are put into place twice weekly at the Influent and Effluent to collect samples to be tested for trace metals and nutrients; this is in conjunction with the samples collected for CN. Monthly post-cleaning blanks are collected from the acid washed carboys to ensure the success of the cleaning procedure. These blanks are collected by adding DI to a cleaned carboy, swirling the DI in the carboy, and letting it sit overnight refrigerated. The DI is then poured off into pre-labeled, pre-cleaned containers for analysis of parameters of interest.

Field blanks are taken each time an analysis is required for Mercury at both Field's Point and Bucklin Point. The procedure for collecting a field blank consists of transporting sufficient DI water into the field and collecting a sample using identical sampling and preserving procedures that are used in collecting the Mercury sample.

Sample Collection for WWTF Nutrients Analysis at Field's Point and Bucklin Point

Permit requirements for nutrients were modified by the Rhode Island Department of Environmental Management (RIDEM) during 2005 as part of new nutrient permit limits issued to reduce the amount of nitrogen discharged to Narragansett Bay. The permit requirements mandate monitoring of nitrate, nitrite, and total kjeldahl nitrogen (TKN) three times per week. Ammonia monitoring permit requirements remained at twice weekly, but NBC has sampled all nutrient parameters three times per week beginning August 1, 2005. Seasonal effluent discharge limits of 5 ppm for total nitrogen were proposed by the RIDEM in the 2005 RIPDES permit modification, and out of this proposed permit came the current nutrient consent agreement between the NBC and RIDEM. In June 2006, a consent agreement was signed, which imposes a seasonal interim effluent permit limit of 18 ppm on total effluent nitrogen at Field's Point and 10 ppm for Bucklin Point. In May 2009 the DEM modified the consent agreement for Bucklin Point to impose a seasonal interim total effluent nitrogen limit of 8.5 ppm. NBC has worked diligently to maximize nitrogen removal at Bucklin Point and has achieved significant reductions in nitrogen loading. However, NBC has determined that additional modifications are required to achieve compliance with the nitrogen limit of 5 mg/l as set

forth in the Consent Agreement. At Field's Point, major facility upgrades and renovations are necessary to implement BNR technology, and are currently taking place at the facility.

Nutrients are analyzed from 24-hour composite influent and effluent samples. Samplers automatically collect samples every 30 minutes and composites are delivered to the lab three times per week. EMDA staff regularly clean and replace suction and pump tubing as well as sample collection carboys as part of its clean sampling technique. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing of the automatic samplers monthly. Sample collection carboys are dishwasher cleaned, acid washed and DI rinsed before they are placed at their sampling location. Equipment blanks are collected every other month from the acid washed carboys and pump tubing and are used to verify the absence of sample contamination.

All nutrient samples are analyzed by the NBC Laboratory. The nutrients analyzed are total kjeldahl nitrogen (TKN), nitrite, nitrate, ammonia, and total phosphorus. TKN analyses determine both ammonia nitrogen and organic nitrogen in a sample. The organic nitrogen component is necessary to determine and monitor total nitrogen in WWTF effluent. Nitrate is determined by difference from a combined nitrite/nitrate measurement and a nitrite measurement. In addition to the nutrient auto-analyzer acquired by NBC's Laboratory in 2004, a second instrument was acquired in September 2005 for salt water analyses. These instruments show improved analysis efficiency for nutrient measurements, and analytical results from the new equipment continue to produce better precision and accuracy than previous analyses**.** WWTF nutrients data for 2010 can be found in Tables 7 and 8.

Sample Collection for Oil and Grease at Field's Point and Bucklin Point

Based on RIPDES permit requirements, three grab samples are collected over the course of a 24-hour period, with one grab per shift, once a month at both the Field's Point and Bucklin Point influent and effluent for oil and grease. The grabs are analyzed separately and the maximum is reported. The RIPDES permit does not set a discharge limit.

Oil and grease samples are collected using a 10 foot telescoping Nasco swing sampler. A pre-cleaned bottle is labeled with collection time and date, site, and the parameter to be analyzed and attached to the Nasco swing sampler with a plastic strap. The cap is removed, taking care not to contaminate it, and the sampler is then lowered just below the surface. The bottle is filled and then recapped. Oil and grease grabs are preserved with hydrochloric acid to a pH < 2 by EMDA staff, as soon as possible after collection. These samples are then brought to the NBC lab for analysis. Oil and grease data results for 2009 can be found in the attached Table 9.

Sample Collection for Effluent Dissolved Metals Analysis at Field's Point and Bucklin Point

In 2000, the NBC began a study to monitor the dissolved metals fraction of the effluent discharged to the receiving waters of the Providence and Seekonk Rivers. During 2010, Field's Point and Bucklin Point effluent samples were analyzed monthly. The NBC and DEM use this data to better understand the fate, effect, and physical partitioning of metals discharged from the POTWs. Understanding the dissolved and total fractions for each metal, a measure of its phase partitioning, between dissolved and particulate, is important for the calculations of permit discharge limitations. POTWs are permitted in total metals. Therefore, the RIDEM must use a "metal translator conversion factor" to estimate the POTWs total metal fraction in the receiving waters that will be in the dissolved phase when writing a permit for a wastewater treatment plant.

Metals in the dissolved form are more readily absorbed by marine life than metals associated with particles. Resultantly, the EPA and DEM have established fresh and saltwater water quality criteria in dissolved metals concentrations. By sampling for total and dissolved metals, the NBC will be able to better assess the ratio of dissolved to total metals in POTW effluent and in the receiving waters.

Effluent dissolved metals samples are analyzed once a month and samples are taken from the effluent total metals composite sample on the first Tuesday of each month. The effluent metals sample is a 24-hour composite sample taken after treatment of the wastewater is complete just before entering the Providence River. As part of a quality assurance plan, the NBC lab analyzes laboratory equipment blank samples along with the dissolved metals to insure accurate results. Effluent dissolved metals data results for 2010 can be found in Tables 10 and 11.

Collection of Final Effluent for Quarterly Bioassay Tests

The two NBC Wastewater Treatment Facilities are required to conduct quarterly bioassay studies to determine whole effluent toxicity (WET) to test organisms. NBC conducts chemical analysis and aquatic toxicity testing, using the response of organisms to detect and measure the presence or effect of one or more substances, wastes, or environmental factors, alone or in combination. NBC met the quarterly bioassay sampling frequency requirements during 2010 for both facilities. At both facilities *Americamysis bahia* and *Arbacia punctulata* are tested. Effluent samples are collected only in dry weather, defined as 48 hours prior to or during sampling and are a composite sample collected over a 24 hour period. Composites consist of 195 mL of wastewater collected every 30 minutes over the course of 24 hours. The Back-up automatic composite samplers are used for this sampling and are cleaned and maintained in the same way as those collecting samples for TSS and BOD. EMDA staff cleans the sample carboys in the dishwasher after each use and carboys are replaced yearly. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing of the automatic samplers weekly.

Two bioassay tests are performed as required by the NBC RIPDES permits; an acute toxicity test in which the whole effluent is tested to examine survivability of test organisms *Americanmysis bahia* in varying concentrations of effluent. The second test is a chronic toxicity test which examined the affect of effluent on the ability of the test organism *Arbacia punctulata* to fertilize eggs in varying concentrations of effluent. Both tests are conducted in five dilutions of effluent plus a control: 100% effluent; 50% effluent; 25% effluent; 12.5% effluent; and 6.25% effluent. The control and seawater used for the dilution is natural seawater.

Analysis of the acute toxicity data provided determination of the LC_{50} and the A-NOEC. The LC_{50} result is defined as the concentration of wastewater that causes mortality to 50% of the test organisms. A-NOEC or Acute-No Observable Effect Concentration is defined as the highest concentration of the effluent in which 90% or more of the test animals survive. The permit requirement limit of 100% or greater is defined as a sample which is composed of 100% effluent. In addition to the acute toxicity test, the chronic test is performed on *A. punctulata*, which examines for the sublethal effects of effluent concentration on the fertilization of eggs. The permit limit for Bucklin Point is 50% or greater for this parameter while at Field's Point the permit requires only monitoring.

The WET tests are designed to supplement effluent monitoring to determine whether the combination of chemical species present in a WWTFs effluent is toxic to test organisms. The monitoring for individual pollutants is targeted towards ensuring that the concentrations of the individual pollutants are at levels which do not pose harm to aquatic organisms. The WET tests are an attempt to determining the synergistic impact of NBC effluent on receiving waters. All bioassay analyses are performed by third party laboratories contracted by NBC and must be conducted in accordance with protocols listed in the EPA document: Cornelius I. Weber, et. al., 1991. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Fourth Edition (or the most recent edition). Bioassay data results for 2010 can be found in attached Tables 12 and 13.

Sample Collection for Sludge Analysis at Field's Point and Bucklin Point

Sludge from Field's Point WWTF is collected daily and sludge from Bucklin Point WWTFs is collected Monday through Saturday, due to the fact that the contractor processing the sludge is closed on Sundays. Sludge from both plants is analyzed for total solids (TS) and volatile solids (VS). Sludge samples are also analyzed one to two times per month for metals and cyanide. Field's Point WWTF sludge was dewatered on-site using a belt press until December 2005, and is now handled by an outside contractor. Grab samples are taken throughout the day by the contractor and composited in one 4 L container. EMDA staff then pours part of this composite into a 16 oz. container for delivery to the lab by 8:00 AM the next day. These containers are disposed after a single use. At the Bucklin Point WWTF an outside contractor also processes the sludge. Similar to Field's Point, the contractor staff takes grab samples throughout the day and composites these into a 4 L container at the end of the day. This is stored in the refrigerator until EMDA picks up the sample the next morning. EMDA staff mix the sample and pour off approximately 500 mL into a smaller container to bring to the lab for

analysis. Data results from sludge sampling for 2010 can be found in attached Tables 14-17.

Sample Collection for VOCs/Priority Pollutants

Grab samples are collected monthly at influent and effluent locations for volatile organic compounds (VOCs). The same glass jars used for oil and grease samples are used for the grab collection. The glass jar is fastened to the end of a pole and dipped in the wastewater to collect the sample. This sample is then poured off into three prepreserved 40 mL glass vials. The glass vials have been prepreserved with 3 drops of hydrochloric acid in each vial before collection. The glass vials are then transported to the laboratory for analysis. Priority pollutant data results for 2010 can be found in attached Tables 18 and 19.

Sanitary Manhole Monitoring

EPA and RIDPES permit regulations require the NBC Pretreatment Program to reevaluate local discharge limitations every five years. In order to complete this task, the NBC must monitor sanitary manholes to evaluate pollutant loadings from residential sources. One of the primary sources of information regarding the water quality of wastewater in the NBC collection system comes from sanitary and industrial manhole sampling. The NBC began sanitary and combined sewer manhole sampling in 1993, and in 2000, EMDA began to make these collections using EPA approved clean sampling techniques to quantify the background loadings of metals and cyanide from residential and non-industrial sources. As laboratory detection limits continue to decrease due to improved clean sampling handling techniques, these data become a more precise measure of the amount of uncontrolled toxic chemicals that enter the NBC collection system from residential, non-industrial sources.

Sanitary manholes have been identified in residential areas, upstream of any industrial or commercial facilities. These background loadings are outside the realm of control by the NBC regulatory Pretreatment program, but provide the setting for determining how much of a given pollutant that can be accepted and effectively removed at each of the treatment facilities. These samples reveal the composition of what is being introduced into the collection system in a more site-specific way than the influent composite samples.

During 2010, the NBC collected sanitary manhole samples. The collection of sanitary manhole samples works as follows: automated sampling devices suspended in the manholes are programmed to collect 100 mL of wastewater every fifteen minutes for a 24 hour time period during a given weekday starting early morning. The aliquots collect into a 10 L acid washed Nalgene jug over the 24 hour period, and the composite sample is later poured off into specified containers for each different parameter including total metals, cyanide, total suspended solids/biological oxygen demand, and mercury. The initial pH of the composite is taken and recorded on a chain of custody document, and for those parameters that require preserving, the preservative used is marked and the final pH is recorded. After every use, the automated sampling device tubing and jug is acid cleaned, rinsed with DI water, and a cleaning blank is produced.

Cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), Molybdenum (Mo), silver (Ag), zinc (Zn), cyanide (CN), mercury (Hg), arsenic (As), selenium (Se), and tin (Sn) were measured in both Field's Point and Bucklin Point sanitary manholes in 2010. The geometric mean of the concentrations for each pollutant is reported in order to remove the inherent variability of background sampling and provide the most representative value for these concentrations.

Sanitary manhole data is essential for providing a point of comparison and screening of collection system data to determine problem areas within the collection system. In addition, the sanitary manhole data is necessary for the calculation of the local limits that the NBC imposes on its industrial users. Sanitary manhole data results for 2010 can be found in Table 20.

Significant Industrial User (SIU) Sampling

The Environmental Protection Agency (EPA) requires that all significant industrial users be sampled at least once every twelve months. NBC has established a more stringent goal to sample each user twice per year. Information regarding what is introduced to NBC facilities is gathered through industrial user and industrial manhole sampling, in addition to the required user self-monitoring. The industrial manhole sampling is an additional means to track chemical spills, concentrated, or non-compliant discharges, as well as to ensure that industrial users are in compliance with the limits set by the Narragansett Bay Commission. The NBC collected 1,847 individual sample bottles from industrial users within both service districts during 2010. These 1,680 sample bottles were analyzed for numerous parameters and resulted in 257 sets of industrial user sample results. Industrial user data results for 2010 can be found in Table 21.

Industrial manhole sampling activities are designed to isolate a specific business within the collection system to surreptitiously determine the typical discharge from the business. Samples are taken upstream and downstream of a significant user's discharge point via manholes. The upstream sample serves to establish a background concentration with which to compare the results from the industry, as well as confirm that the source of any contaminants is from the permitted user, not additional sources. The distance between these two sampling locations is typically 150 feet, depending on the location of the nearest manhole.

ICSO 2700 samplers are used to perform both sanitary and industrial manhole sampling, as well as collect plant influent samples. This sampler can be programmed to collect samples every 15 minutes for 24 hours, thereby providing a composited representation of the average discharge for that time period. Samplers can disperse the water collected into up to 24 sample bottles, thereby allowing for an intensive analysis of the variations within the upstream and downstream sample locations, if necessary. A Tygon suction line with a stainless steel strainer attached at the end is used to collect samples from the middle of the waste-stream. Samples are immediately checked for sulfides and chlorides using lead acetate and potassium iodide indicator paper, respectively, as these chemicals

can interfere with cyanide measurements. Cyanide sample pH is adjusted using sodium hydroxide to a pH above 12, and metals samples are acidified to a pH of less than 2 with trace metal grade nitric acid. Samples are analyzed for cadmium, chromium, copper, lead, nickel, silver, zinc, and cyanide. All metals were analyzed by Inductively Coupled Plasma – Mass Spectrometry (ICP-MS).

The implementation of clean sampling techniques at the NBC has provided additional means of confirming that industrial discharges do not exceed treatment capacity. The EMDA industrial user sampling supplements the self-monitoring activities, providing a means for enforcing local limits for the pollutants.

Septage Sampling

The NBC receives septage waste, waste pumped out of septic tanks, at the Lincoln Septage Receiving Station in Lincoln, RI. The Lincoln station input point is within the Bucklin Point service district, approximately 11 miles from the Bucklin Point facility. The septage is routinely monitored by the EMDA for toxic constituents to ensure that the material received does not contain toxics in concentrations that exceed NBC's Pretreatment Industrial Discharge Limitations for the Bucklin Point WWTF, to which the waste ultimately discharges. This sampling also helps NBC evaluate the percent of metals loading received from septage into the Bucklin Point WWTF. Septage samples are collected daily Monday-Saturday as composite samples of all of the septage trucked to the NBC Lincoln Septage Receiving Station. All six composite samples are kept refrigerated until they are picked up by EMDA staff on Mondays at the Lincoln Septage Station and are brought to the NBC lab on Tuesdays for analysis. Three daily samples are chosen at random and analyzed by the NBC Laboratory for trace metals and cyanide each week. Interceptor Maintenance staff sample and screen each septage truck's waste delivery for quality by looking at the physical characteristics and by measuring pH during the pump-out at the septage facility. During 2010, septage samples were analyzed for trace metals and cyanide.

New septage sample collection techniques and equipment were introduced in June of 2004. The new equipment allowed for easier, in-line sampling during septage delivery. A sample from each truck is collected after the sample port is flushed thoroughly, usually after the load has discharged, for approximately one minute. The sample from an individual truck is screened for pH, odor, and other unusual characteristics. If any anomaly is observed, the sample is targeted for individual analysis; otherwise it is combined with the day's delivery and sent to the laboratory for analysis. This new sampling protocol has helped to more quickly locate potential toxic inputs to the collection system. These more representative sampling techniques may partially explain the observed increase in septage metal loadings since 2004. Grit removal at the septage facility removes a portion of the metals loading prior to its introduction to the sewer system and the treatment plant. Septage data results for 2010 can be found in Tables 22 and 23.

NBC Receiving Water Monitoring Activities

The NBC not only monitors wastewater from the source (industries and manholes) to the WWTFs and throughout the plant process, but also monitors the receiving waters, where treated effluent and combined sewer overflows enter. NBCs receiving water monitoring includes sampling the surrounding urban rivers and upper bay as well as some of the rivers that enter the upper bay from Massachusetts. The monitoring data is vital to determining the impact of NBC effluent on the river and bay ecosystems. This data will be useful in determining and quantifying the positive results from the CSO abatement project in the upper Bay and will provide insight into the response of the receiving waters to NBC WWTF upgrades. The NBC EMDA section's role in environmental monitoring and compliance issues also continues to expand as compliance issues become ever more complex.

In 2010, EMDA continued sampling for nutrients at several locations in Narragansett Bay and within the watershed at both local river stations and at border stations on the MA/RI border. These measurements are aimed at effectively characterizing the magnitude, composition and distribution of nutrient inputs to these rivers, and comparing these results to previous years to examine factors influencing nitrogen loadings into the bay. The characterization of nutrient loadings and dynamics are an integral part of the nutrient issue. Determination of the background loadings, effluent discharge impacts, and fate of nutrients from the NBC facilities are necessary components of a sound environmental policy on nutrients. This study was undertaken to gain greater insight into the nutrient cycling within the rivers, and to help quantitatively define the amount of nitrogen that the WWTFs can safely discharge without adversely impacting water quality.

In addition to nutrient sampling the NBC conducts routine field sampling for pathogens (disease-causing organisms) in the local freshwater rivers and the estuarine waters of the Providence and Seekonk Rivers. Fecal coliform has been widely accepted as a good indicator of pathogens in waterbodies. Although fecal coliform (composed of a number of similar species of bacteria) does not necessarily contain disease-causing organisms, it is used as an indicator of the *possible* presence of pathogens. Generally, if fecal coliform counts are high, there is a high potential for the presence of other bacteria that could be harmful to both humans and wildlife. Raw, undiluted sewage contains high levels of fecal coliform bacteria because this type of bacteria is found in the feces of all warm-blooded animals, including humans. The wastewater treatment process at NBC's facilities eliminates almost all of these bacteria after the waste passes through primary and secondary treatment and, ultimately, disinfection via chlorination or ultraviolet light. Final effluent wastewater discharged from the Field's Point and Bucklin Point WWTFs has very low levels of fecal coliform bacteria. During small rain events, the two treatment facilities use special wet weather treatment tanks to treat and disinfect the higher volumes of combined rainwater and sewage. However, during intense rain events, the NBC's combined sewer overflows (CSOs) can send untreated stormwater and sewage that the collection system cannot contain directly into the freshwater rivers and upper bay. In recognizing the need to assess the impact that the NBC facilities can have on the water quality of the local rivers and upper bay, fecal coliform bacteria were measured at a

number of locations throughout the urban rivers and the upper bay. A new Water Quality Regulations document was published by the RIDEM in July 2006, which contained a change in the water quality criteria for bacteria. *Enterococci* measurements, considered a more accurate metric for potential human health impacts from primary contact, were adopted to replace fecal coliform as the primary bacteriological indicator for both fresh and saline waters. Fecal coliform is only applied when *Enterococci* data are not available. Therefore, the NBC also conducted *Enterococci* sampling at five of the bay stations and two of the river stations. The NBC has been conducting fecal coliform sampling in the urban rivers for over a decade and with such a historical database we believe it is important to continue these measurements for as long as possible and as long as it takes to determine if there is a consistent relationship between *Enterococci* and fecal coliform results. EMDA also conducts monitoring of particular CSOs during wet weather events when there is discharge from these outfalls. The NBC has embarked on an historic public works project to eliminate the negative impact that CSO overflows have on water quality, with a CSO Abatement Program in which Phase I began operation in the fall of 2008.

As part of investigating the Bay's overall health, the NBC also maintains two water quality monitoring stations located at a dock at Phillipsdale Landing in the Seekonk River and a buoy at Bullock's Reach in the Providence River. The monitoring sites are continuously collecting data on the conditions of the water such as temperature, dissolved oxygen, salinity, pH, and chlorophyll or turbidity.

River and Bay Nutrient Sampling

The NBC has been proactive in responding to the environmental concerns of Narragansett Bay and the state of Rhode Island. As a part of a continuing effort to both address and understand the magnitude of the impacts that facility operations has on our receiving waters, an intensive sampling program of the urban and local rivers that are part of the Narragansett Bay watershed has been developed for nutrient analysis and loading determination. This sampling program was designed to encompass two components: an evaluation of the loading in the urban rivers that empty into Narragansett Bay just upstream of tidal influence, and an evaluation of the nutrients entering Narragansett Bay from Massachusetts. Both components are important to accurately determine the nutrient inputs to Narragansett Bay as well as a means of determining the impact of sources outside of the NBC service district. By determining the magnitude and relative importance of these fluxes, the NBC will be able to more accurately determine the impact of biological nutrient removal (BNR) systems recently constructed at the Bucklin Point facility as well as planned future facility upgrades at the Field's Point facility. This data will also contribute to developing a thorough understanding of nutrient fluxes to Narragansett Bay.

The NBC initiated nutrient monitoring of the local urban rivers in 2005, and expanded the sampling locations to fifteen stations and increased the frequency of sampling to one to two times per month, depending on the station location, in 2006. The locations of sample stations can be found in Figure 1. Sample locations on the freshwater rivers are as close to the mouth of the river as possible without encountering tidal mixing and

additional station(s) are also sampled on CSO-affected rivers at a location upstream of all CSOs. Nutrient samples are taken using a peristaltic pump, Tygon tubing, and new plastic sample bottles. All tubing and sample bottles are acid washed and then rinsed with deionized water (DI) before the sampling event and tubing is rinsed with DI between sample stations. Deionized water field blanks, equipment blanks, and duplicates are collected in order to provide a means of determining the accuracy and reproducibility of sampling methods and sample handling techniques. In addition to sampling QA/QC measures, the NBC Laboratory has a rigorous analytical QA/QC program in place for all nutrient samples.

To measure any direct changes in nutrients in the upper bay as a result of WWTF upgrades and the CSO Abatement Project, the Narragansett Bay Commission began sampling for nutrients in the Providence and Seekonk Rivers during the summer of 2005. The direct water column nutrient measurements provide an important look at the amount of nutrients in the upper bay from all sources, including river loading, surrounding WWTFs, atmospheric deposition, groundwater, runoff, leaky septic systems and nutrients from the middle and lower bay area as well as from offshore. Bay sampling stations in 2005 included five surface stations and one bottom station. These bay stations included Conimicut Point, Edgewood Yacht Club, Pomham Rocks, and India Point Park at the surface and Phillipsdale Landing at the surface and bottom. In July 2006, one additional bay station was added as well as bottom samples at all bay stations. The new bay station was located at the Bullock's Reach Buoy, where our fixed continuous water quality monitoring buoy is located. In 2010 NBC sampled surface and bottom at each of the six stations. As seen in Figure 2, the Conimicut Point, Bullock's Reach Buoy, Edgewood Yacht Club and Pomham Rocks stations are located in the Providence River. The Phillipsdale Landing station is located in the Seekonk River at our fixed continuous water quality monitoring dock site and the India Point Park station is located near the mouth of the Seekonk River estuary. All surface collections in bay waters were made at a depth of approximately 0.5-1 meter below the surface. Bottom collections were made approximately 0.5-1 meter above the sediment.

Bay samples were collected, filtered, and preserved on-board the NBC research vessel, the *R.V. Monitor*. Samples were collected using either an acid-washed and DI rinsed Niskin sampler attached to the boat davit or a Wheaton grab sampler and acid-washed, DI rinsed sample bottle. If the Niskin sampler was used, the sample water was poured off into a sample bottle. Using the water in the sample bottle, the same methods as described above for the freshwater rivers was used for the estuarine samples. Sample splits were also submitted to both the NBC and URI/GSO MERL (MERL) facilities to assure data quality during 2005 and 2006. As with the river samples, deionized water field blanks and duplicates are collected during Bay sampling as well. The NBC laboratory analyzes both freshwater and saltwater nutrient samples for nitrite/nitrate, nitrite, total dissolved nitrogen, ammonia, orthophosphate, and silicate. All nutrient samples were filtered prior to analyses; therefore all results are measurements of the dissolved (or soluble) phase. Grab samples for TSS and Chlorophyll are also taken at the same time as nutrient samples and analyzed by the NBC laboratory. All data for the 2010 River and Bay Nutrient sampling can be found in the attached Table 24.

Figure 1: NBC River Nutrient Sampling Stations

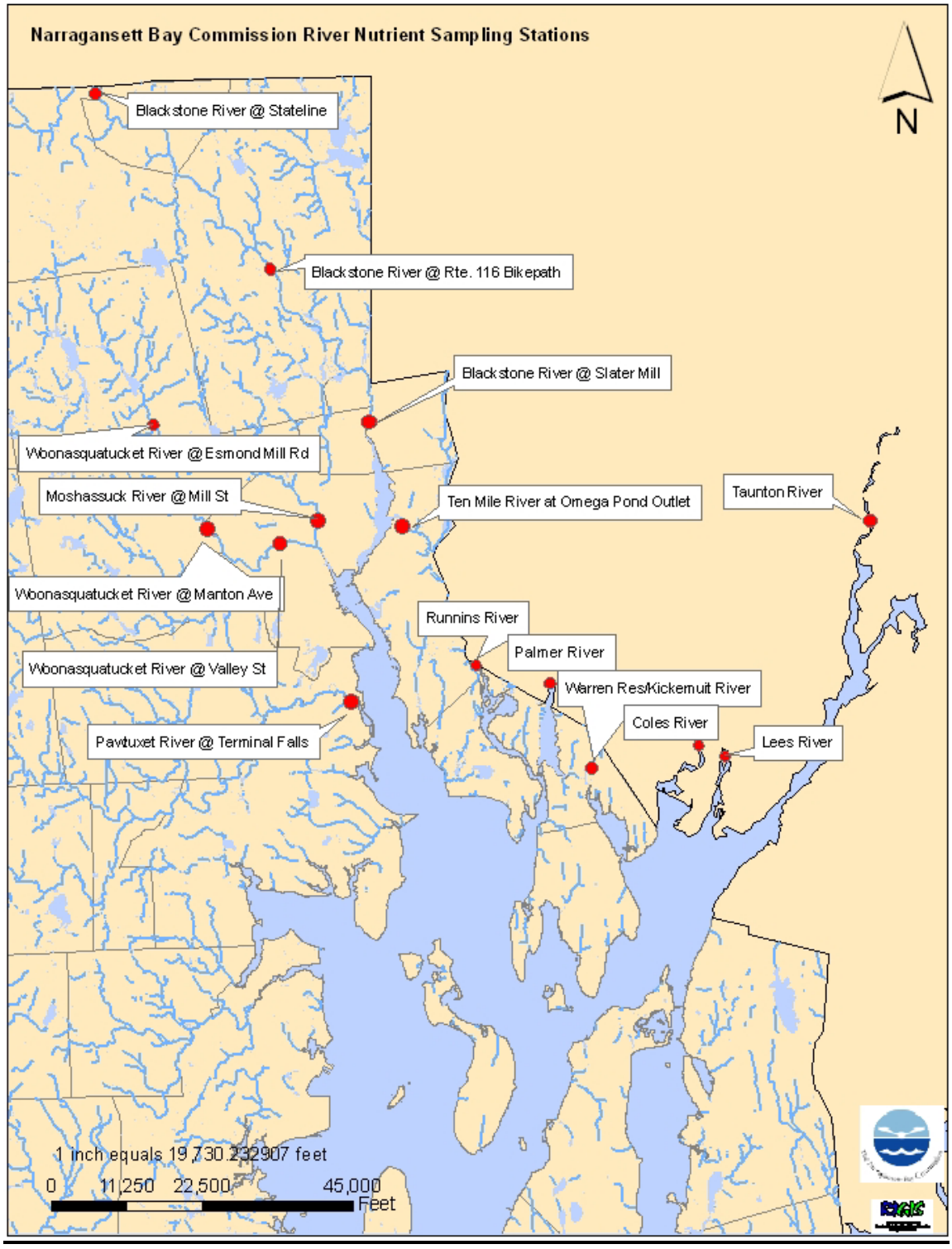
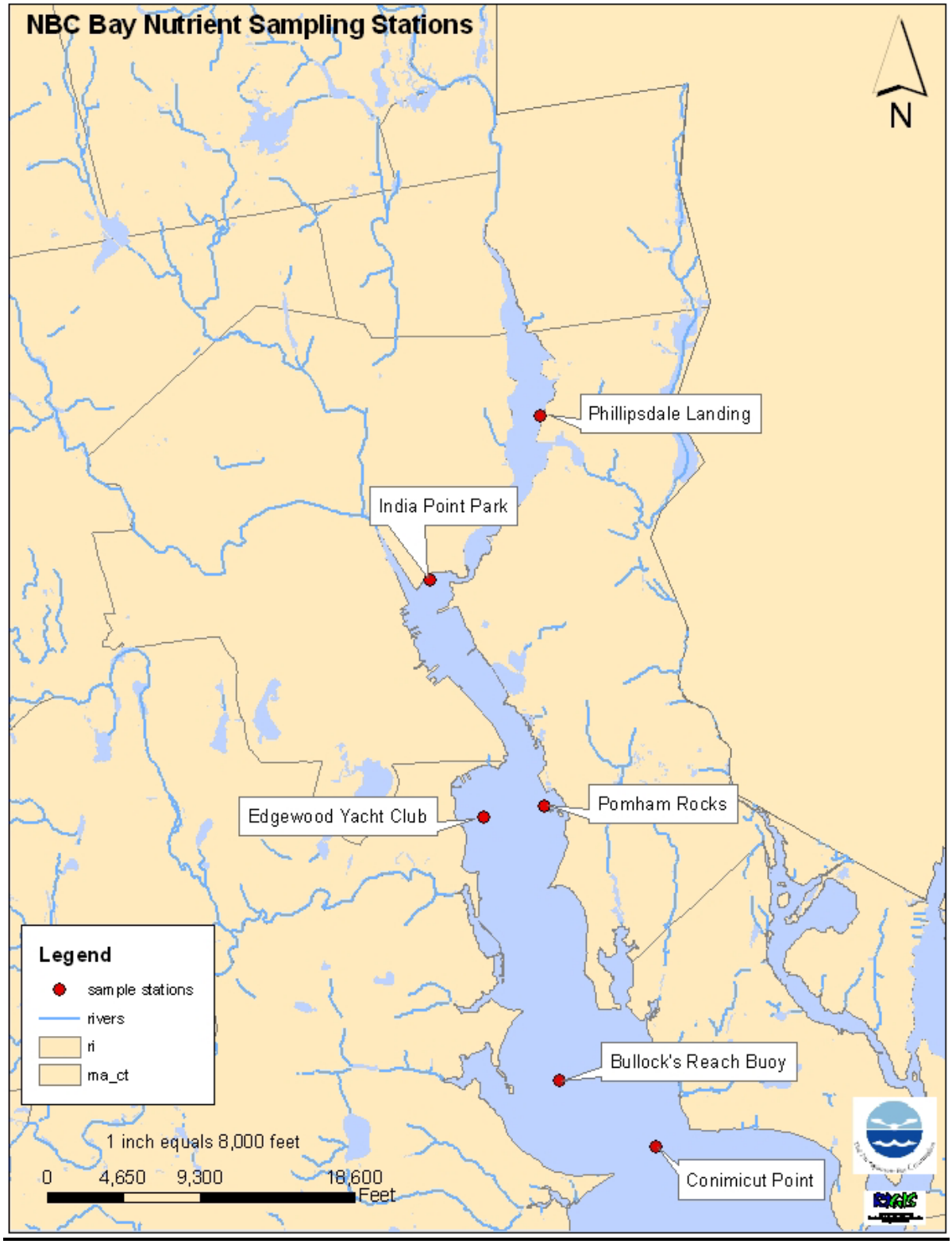


Figure 2: NBC Bay Nutrient Sampling Locations



Urban River Pathogen Monitoring

Consistent monitoring for fecal coliform analysis on the Providence area urban rivers began in 1997 and became the responsibility of EMDA in 1998. It was developed in conjunction with the CSO remediation stakeholders and has developed as a tool of the Interceptor Maintenance (IM) section as a check for potential problems occurring at any of the sixty-seven CSOs the Narragansett Bay Commission owns, operates, and maintains. Routine sample collections for analysis of fecal coliform are made each week, with stations on the Blackstone, Woonasquatucket, Moshassuck, Seekonk, Providence and Pawtuxet Rivers sampled on Mondays and stations on the West, Woonasquatucket, Moshassuck and Providence Rivers on Tuesdays. In the event of a holiday, or any other unforeseen circumstance arising that would prevent the regular schedule, the sampling routine will begin the next day sampling is possible. Samples are collected by Environmental Monitoring Staff in the morning, and delivered to the lab at Field's Point no later than 11:00 AM the day of sampling. All stations sampled on the same river on the same day are collected within a two-hour interval. NBC's Interceptor Maintenance and Construction (IMC), Environmental Monitoring and Data Analysis (EMDA) and Engineering departments determine locations to be added or omitted as needed.

On river sample collection days, samples are collected from six sites on the Woonasquatucket River, two sites on the Blackstone River, seven sites on the Moshassuck River, two sites on the West River, and one site each on the Pawtuxet, Providence, and Seekonk Rivers. During 2010, 1,710 fecal coliform samples and 50 *Enterococci* samples were collected and analyzed. After the Woonasquatucket River flooded in April of 2010, the sample location at Atwells Ave had to be changed to Eagle Street due to bridge damage at the original location. Please see Figure 3 for sampling locations (the Seekonk River station is shown on the Bay Bacteria Sampling map in Figure 4).

In order to improve NBC's identification of dry weather discharges (DWO), in 2002 EMDA began resampling weekly collections when DWOs are suspected, and to identify other sources of bacterial contamination to the rivers. Rivers are not resampled when collections have occurred in times of wet weather, because analytical results are expected to be high due to the normal functioning of CSOs. When results from collections are high (greater than 1000 MPN per 100 mL) and there has been dry weather (no rain i.e. <0.1 inches in the preceding four days), EMDA will resample those stations a second time within the week. Resampling will also occur when results are very high (greater than 10,000 MPN per 100 mL) when no rain has occurred in the preceding two days. These general resampling criteria are subject to change based on river flow, fecal bacteria level at background stations, and staff availability.

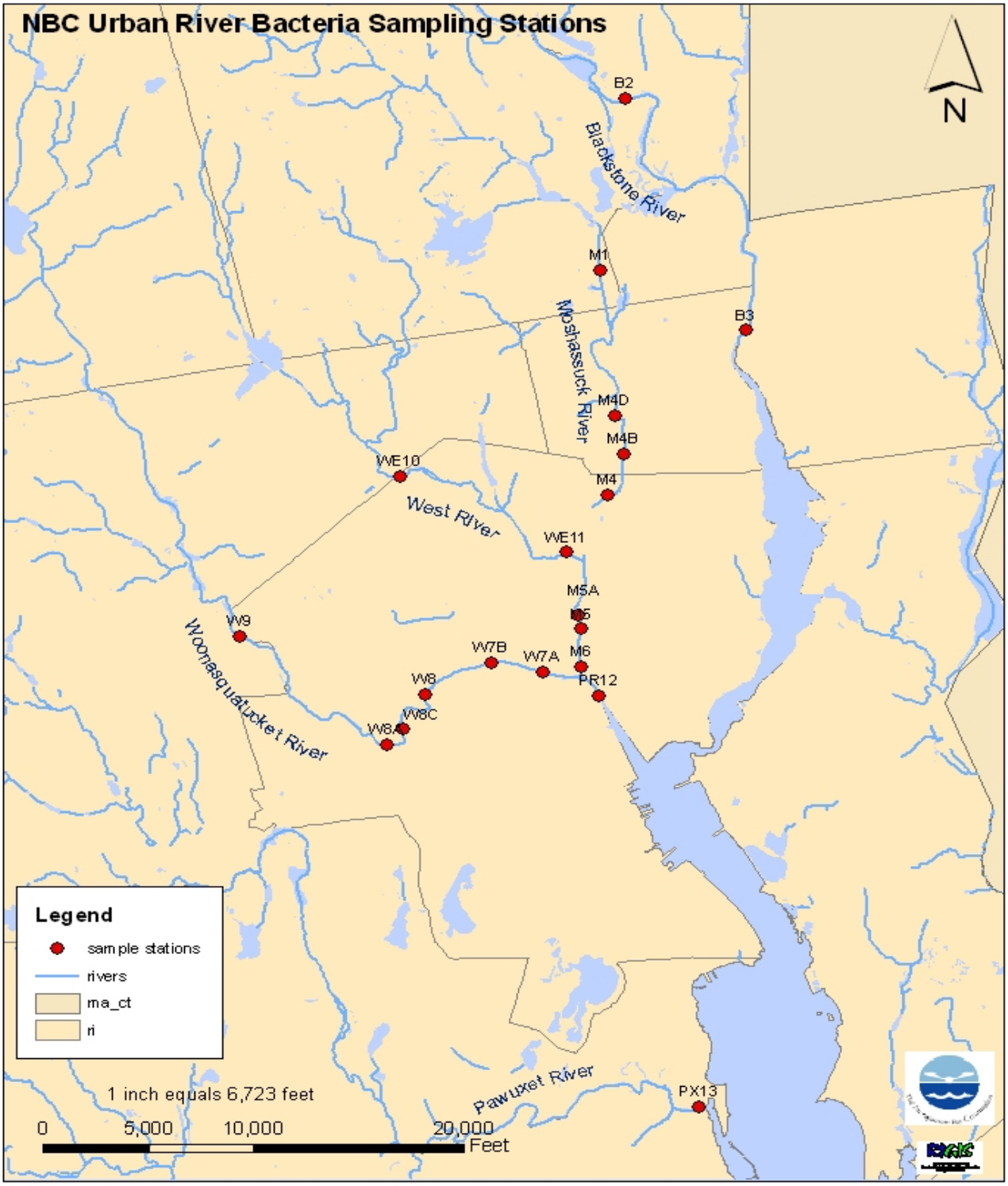
Water samples for fecal coliform analysis are collected from the center of a bridge or from a riverbank. A sterile, 120 mL fecal coliform sample container is used for the sample collection. Collections from bridges have the sample container placed in an open-ended brass cylinder and held in place with a small screw running through the cylinder body. A wire handle extends from the top of the cylinder with a line attached for

lowering it into the water stream being sampled. Samples being collected from a riverbank are taken by dipping the sample container in the water stream by hand. The sample is taken as close to the center of the water stream as possible. Once the sample has been collected, the sample container is sealed, and a label with site ID, sample number, date and time of collection and collector's initials is placed on the container. The samples are held in a portable cooler with ice packs (temperature held at 4 degrees Celsius) for transfer to the lab. All samples are brought to the laboratory within the holding time period (6 hours). If samples do not make it to the lab in time to be analyzed before the holding time, they are discarded and not analyzed.

As part of EMDA's quality assurance for this program, collection and analysis of duplicate fecal bacteria samples occurs on all regular sampling days. These collections and analyses are used to help determine general river variability, namely bacterial "patchiness" in the river, as well as analytical and sampling variability. The two sampling locations that have been chosen as replicate sites are Atwells Avenue (W-8) in Providence on the Woonasquatucket River and at the end of Moshassuck St. (M-4B) in Pawtucket on the Moshassuck River. The Atwells Avenue sampling is conducted from a bridge in the center of the main current flow; the end of Moshassuck Street site sampling is conducted from the riverbank in the center of the main current flow. The duplicate samples are taken simultaneously using a second 120 mL sterile bottle zip tied to the sampling device. Fecal and *Enterococci* data for the sampling stations located in the Woonasquatucket, West, Providence, and Seekonk Rivers can be found in the attached Table 25. Data for the Blackstone, Moshassuck, and Pawtuxet Rivers can be found in the attached Table 26.

Another element of EMDA's quality assurance for this program is the collection and analysis of field blanks. Sample blanks are taken in the field during each fecal coliform sampling day to measure the ability of staff to maintain clean sampling techniques, and to rule out any potential contaminants from normal "open-air" exposure. These blanks are taken using deionized water in place of river water, with the same handling techniques as the actual river samples. The detection limit for these samples was <30 MPN/100 mL. The analytical method used by the NBC Laboratory is the 24-hour Fecal Coliform Determination by Multiple Tube Fermentation, using A-1 broth or media. The Standard Methods reference number is 9221E for this EPA approved methodology. Positive and negative controls are routinely run in the laboratory; in addition, tubes of un-inoculated, freshly prepared media are incubated and analyzed in order to confirm the sterility of the media. The NBC Laboratory is RIDOH certified. All samples are properly preserved prior to analysis at 4 degrees Celsius and holding times are kept to less than four hours, to avoid approaching the maximum six hour limit.

Figure 3: NBC Urban River Bacteria Sampling locations

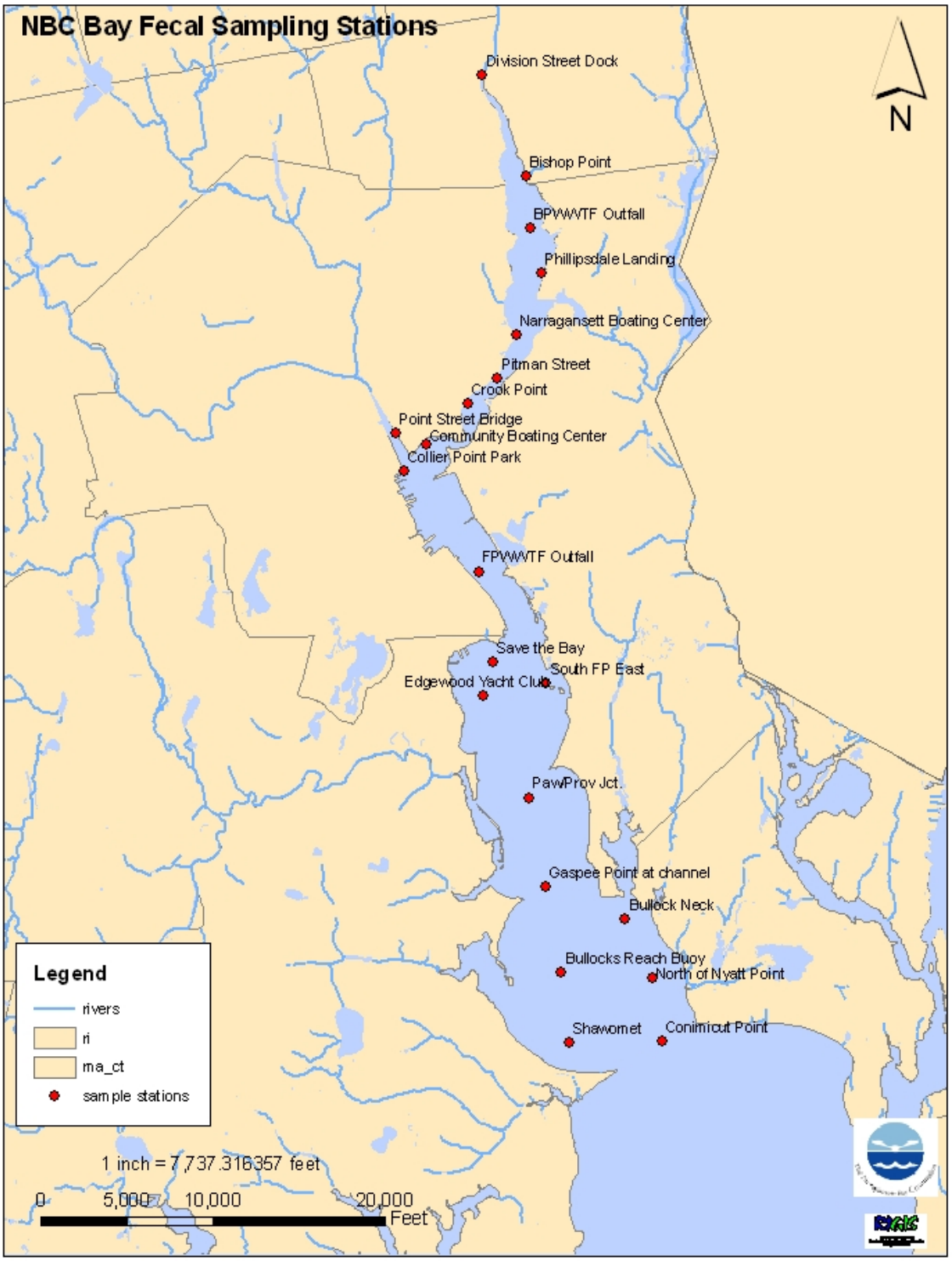


be done the next regular work day. Samples are collected by Environmental Monitoring Staff, and delivered to the lab at Field's Point no later than 12:00 PM the day of sampling.

Bay fecal samples are collected at twenty locations in the Seekonk and Providence River. Fecal samples are collected from the NBC research vessel the *R/V Monitor* at six sites in the Seekonk River, four sites north of Field's Point WWTF, and ten sites south of Field's Point WWTF; please see Figure 4 for sampling locations. During special events, including after some heavy rainfalls, special sampling may take place that includes collecting bay fecal samples consecutively over several days. Depending on the event, the sample stations may include all of the usual stations, some of the usual stations and/or some additional stations further down the bay.

Water samples for bacteria analysis are collected from the port or starboard side of the EMDA research vessel. A sterile, 120 mL coliform sample container is used for the sample collection. Collections are made by placing the sample container in an open-ended plastic cylinder which is held in place with a small screw running through the cylinder body. A metal handle extends from the top of the cylinder with a vinyl line attached for lowering it into the water being sampled. Once the sample has been collected, the sample container is sealed, and a label with site ID, sample number, date and time of collection is placed on the container. The samples are held in a portable cooler with ice packs or a portable refrigerated cooler (temperature held at 4 degrees Celsius) for transfer to the lab. All samples are brought to the laboratory within the holding time period (6 hours). If samples do not make it to the lab in time to be analyzed before the holding time, they are discarded and not analyzed. Duplicate samples are taken at the Conimicut Point, Field's Point Outfall, Phillipsdale Landing and Division Street Dock stations. The duplicate samples for each site are collected simultaneously using a second 120ml coliform bottle. A "blank" sample using deionized water is also taken and brought to the lab along with the fecal samples for quality assurance purposes. In addition to fecal monitoring, five sites are also analyzed for *Enterococci* bacteria. During 2010, 654 bay fecal coliform samples and 130 *Enterococci* samples were collected and analyzed. Please refer to attached Table 27 for 2010 Bay fecal coliform data and to Table 28 for the Bay *Enterococci* data.

Figure 4: NBC Bay Bacteria Sampling Stations



Combined Sewer Overflows (CSO) Wet Weather Sampling

In implementing NBC's policy of protection of Narragansett Bay and its tributary rivers, and to fulfill the requirements of the EPA and RIDEM Nine Minimum Controls Program, the EMDA staff sampled two CSO wet weather overflows during a rain event in 2009. The aim of these wet weather sampling events was to characterize the impact of CSO discharges and to evaluate the success of the NBC Pretreatment and Pollution Prevention Programs at controlling the discharge of toxics through CSOs. The CSO Remediation Project will effectively eliminate 98% of CSO discharges in the near future but all feasible controls are expected to be implemented until that project is completed and the EPA's Capacity, Management, Operations and Maintenance (CMOM) program for the NBC is fully implemented. The 2010 wet weather sampling was conducted on once on October 1st at the Esten Avenue Outfall #219 with a day of approximately 0.77 inches of rain, as measured at the National weather Service at T.F.Green Airport. Samples at Outfall #54 Sheridan Street were collected on December 1st with 1.34 inches of rain concentrated between the hours of 1:00 – 9:00 pm. Outfall #54 on Sheridan St is within the Field's Point service area and discharges into the Woonasquatucket River and is tied to a sewer collection drainage basin that includes a mix of residential, industrial, and commercial uses. Outfall 219 discharges into the Moshassuck River and is linked to a large sewer drainage basin that is predominantly residential with commercial and industrial inputs. The data for CSO #219can be found in Table 29; and the data for CSO #054 can be found in Table 31.

The sampling plan was designed to collect three samples at each outfall throughout the overflow event. The first sample would be collected during the initial overflow, or first flush, stage and was expected to contain wastewater with the least degree of rain water dilution and the highest concentrations of materials washed from street and land surfaces into the combined sewer system. A second sample would then be taken during the stage of highest overflow rate and a third sample taken near the conclusion of the event. This plan was fully implemented at all outfalls.

Narragansett Bay Fixed Site Water Quality Monitoring

The Narragansett Bay Commission (NBC) funds two fixed site water quality monitoring stations in the Providence and Seekonk Rivers. These stations were created in 2000 as part of the formerly EPA-grant funded Environmental Monitoring for Public Access and Community Tracking (EMPACT) Project. NBC has maintained full funding of these sites since federal grant funding ceased in 2002. The stations have been established in proximity to the Field's Point and Bucklin Point wastewater treatment plant outfalls. The Bullock's Reach station is a floating buoy located between Gaspee Point and Conimicut Point in the Providence River and the Phillipsdale Landing station is a dock site located on the Seekonk River in East Providence. These monitoring stations directly benefit Narragansett Bay research by allowing for continuous, real-time water quality monitoring in the more urbanized portions of the upper Bay. Through radio and land-based phone line telemetry systems, Bay researchers can consistently track changes in the estuaries from remote locations, thus saving valuable resources and decreasing the response time

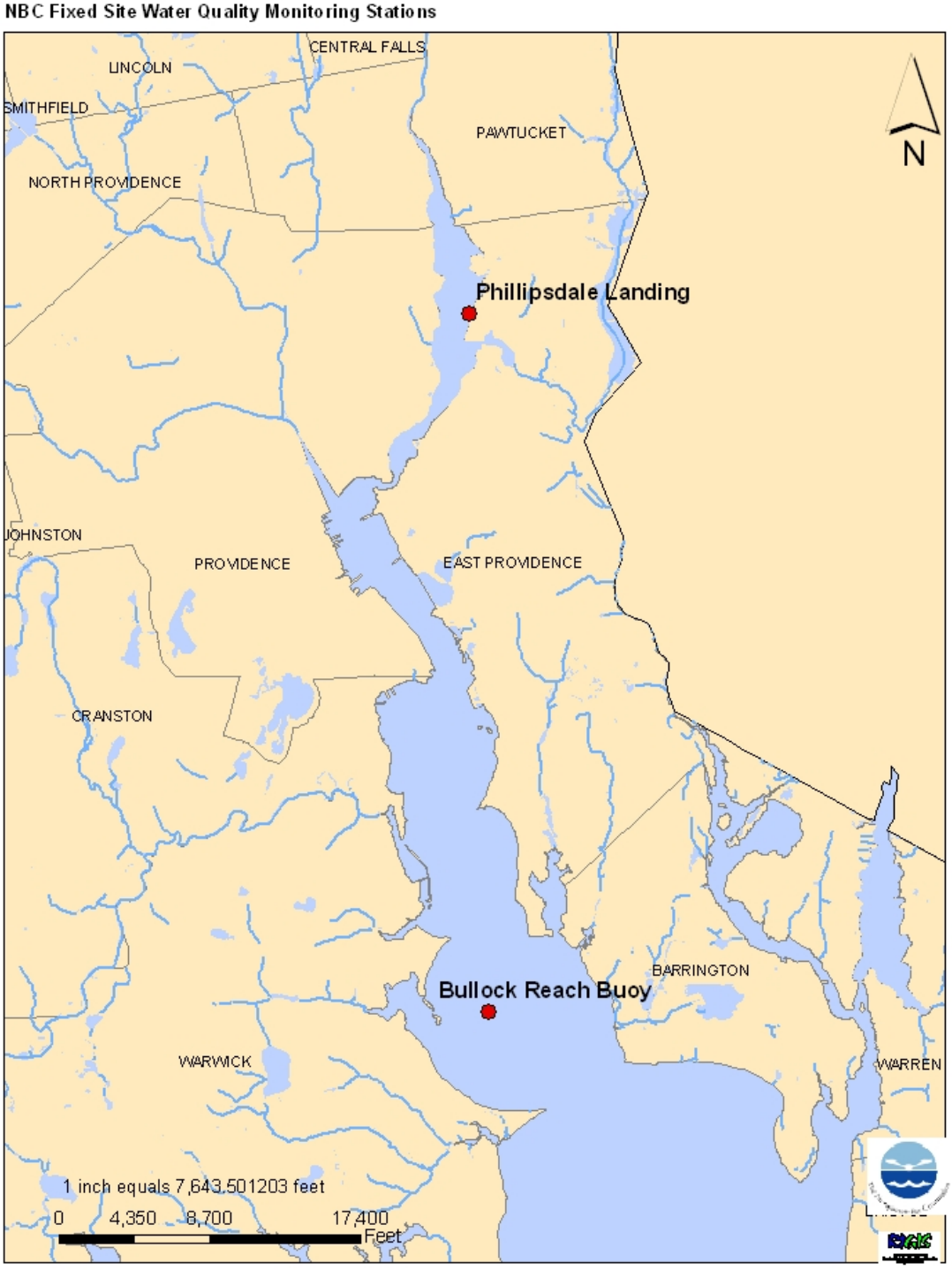
to anomalous conditions. This data also provides a baseline of water quality across seasons and reveals yearly trends.

State-of-the-art technology at these sites collects measurements for depth, temperature, salinity, pH, dissolved oxygen, turbidity and fluorescence (a proxy for chlorophyll and phytoplankton activity). Data is collected by the use of water quality instruments called sondes, at both the Bullock's Reach buoy and Phillipsdale Landing stations every 15 minutes and is transmitted via radio signal from Bullock's Reach and via landline phone connection from Phillipsdale Landing to a base station at Field's Point every hour. During 2001 and 2002, EMDA and URI-GSO worked together to service and maintain the Bullock's Reach buoy. In 2003, the NBC assumed all buoy maintenance activities and NBC EMDA staff has continued to maintain the buoy as well as the Phillipsdale Landing dock site through 2009. The EMDA staff is also continually making improvements to equipment, infrastructure and QA/QC protocols to ensure the reliability of data collected. Please see Figure 5 for the locations of both fixed site water quality monitoring stations.

EMDA works with the RIDEM, University of Rhode Island (URI) and Narragansett Bay National Estuarine Research Reserve (NBNERR) to coordinate maintenance and data handling efforts with each of these groups who are also maintaining buoy stations and dock sites with the same water quality instruments (YSI 6-series sondes) in other parts of the Bay. This group of statewide collaborators is collectively known as the Narragansett Bay Fixed Site Water Quality Monitoring Network (Fixed Site Network). Through the Fixed Site Network, a standard operating procedure for calibration and maintenance of the sondes as well as data handling has been developed so that each organization will be following the same protocols. The RIDEM maintains a website which allows easy access to data from all of these fixed sites in one central location. This can be accessed at http://www.dem.ri.gov/bart/stations.htm . The RIDEM BART website currently displays a map showing station locations, monthly graphs of summer data and all Fixed Site Network data from 2003 through 2009 in raw, edited and corrected formats.

At the end of 2002, uncorrected raw data from the water quality stations became available for use by the general public via a link on the NBC website, http://www.narrabay.com/empact/. This website presents monitoring station raw data in an easy-to-use and easy-to-understand format, and includes information about the history and future of Narragansett Bay. The NBC EMPACT website represents a comprehensive look at water quality and biological life in upper Narragansett Bay by providing the general public with real-time data and a wide range of information regarding water quality in Narragansett Bay.

Figure 5: NBC Fixed Site Water Quality Monitoring Stations



The fixed site water quality monitoring project is very important in understanding the overall health of NBC's receiving waters and will be useful in looking at the response of these waters to future WWTF upgrades. The NBC is also concerned about the issues of hypoxia and eutrophication occurring in the Bay. Hypoxia is the condition that occurs when dissolved oxygen concentrations in water fall below a critical level, negatively affecting biological organisms. As mentioned above, the water quality instruments (sondes) that NBC uses at these fixed sites have dissolved oxygen sensors on them, so the NBC can immediately determine when hypoxia is occurring and for how long. This data is extremely helpful for the NBC, RIDEM and other organizations in studying why these events happen and how the biological organisms in the bay react.

Data from the Bullock's Reach buoy has become very important to the RIDEM in monitoring for low dissolved oxygen events that may require a quick response by their staff. Data from 2010 was sent to the RIDEM weekly during the critical summer months to keep them updated on the water quality status at the Bullock's Reach site. Throughout the years, data from the Bullock's Reach buoy has been useful in RIDEM's analysis of water quality changes in the upper bay, and for periodic fish kills occurring in the upper bay and rivers. The data from these sondes is also being used be in a joint NBC-URI hydrodynamic modeling project that will provide information on currents, flushing and predicted tracks of WWTF effluent in the Providence and Seekonk Rivers.

Sample Design

The Bullocks Reach buoy includes sondes at three depths: surface, mid and bottom. The Bullock's Reach site therefore includes a YSI EMM 700 buoy with one YSI sonde at the surface at an approximate depth of 0.5-1 meter, one YSI sonde at a mid-depth of approximately 2-4 meters and one YSI sonde at the bottom at an approximate depth of 6-7.5 meters. Water quality data is recorded and transmitted at a 15 minute interval from all three depths. In 2010 the buoy position was to the northwest of Conimicut Point at 41^{o}.43.944 North and 71^{o}.22.214 West in about 26 feet of water (about 8 meters), west of the Providence River channel. The surface and mid depth sondes measure depth (m), water temperature (°C), specific conductance (salinity; mS/cm and ppt), pH, dissolved oxygen (% and mg/L), chlorophyll a, (µg/L) and fluorescence (%). The bottom sonde measures depth, water temperature, conductivity (salinity), pH, and dissolved oxygen with the same units as above, along with turbidity (NTU). The buoy is serviced using the NBC's 23-foot Parker research vessel the R/V Monitor, which is kept at the Port Edgewood Marina. A water quality profile is obtained at the buoy during each visit, if possible, using a YSI 600XL sonde, which measures temperature, salinity, pH and dissolved oxygen. Data from the buoy is transferred to the PC in the Field's Point WWTF Process Monitor Room via radio signal every hour and is then viewed by EMDA personnel utilizing the YSI software program EcoWatch. For the 2010 season, the buoy was deployed in the water in early June and sondes began collecting data on 6/7/10 until 11/10/10.

The second continuous monitoring site is a dock site located at Phillipsdale Landing on the east side of the channel of the Seekonk River in East Providence. This site is in about 11.5 feet of water (3.5 meters) and two YSI sondes collect water quality data from two levels, 0.3 m from the surface and 0.5 m off the bottom, at a 15 minute rate. The surface sonde measures depth, water temperature, specific conductance (salinity), pH, chlorophyll a and fluorescence. The bottom sonde measures depth, water temperature, pH, and dissolved oxygen, with both surface and bottom sondes using the same units as noted above at Bullock's Reach. As with the Bullock's Reach data, Phillipsdale Landing data is transferred to the PC in the Field's Point WWTF Process Monitor Room every hour via phone line and is then viewed by EMDA personnel utilizing YSI software. A new state of the art datalogger was purchased and installed in September 2010 at this site, which also included a new software program for viewing the data files. Sondes were deployed at this site on 04/01/10 and were removed on 12/13/10 due to concerns of ice build up at the site.

Lab/Field Procedures

Sondes are calibrated before each deployment at each site. All sondes are calibrated using YSI recommended methods in the YSI Operations Manual as well as agreed upon protocols from the Fixed Site Network. All calibrations used YSI standards and were conducted by NBC EMDA staff in the EMDA laboratory. Sondes are then deployed, retrieved after approximately two weeks in the water and then undergo post-deployment checks. Summer deployments are kept to a maximum of two weeks in the water due to fouling concerns. The post-deployment check involved placing the sonde probes in each calibration solution, as done during calibration, to check sonde readings when in that solution of known concentration, pH or NTUs. This data can be used in assessing how closely the sonde is reading to the actual solution levels, and therefore how far it has drifted from the original calibration or if there has been a probe failure. After the deployment period, new, clean, calibrated sondes are deployed at each site.

Data is viewed regularly while the sondes are deployed and if any problems are seen in the data, an attempt is made to change the sondes out sooner if staff time is available. All sonde swaps, including those done at Phillipsdale Landing, need to be done in dry weather so as not to get water in the sonde connectors.

Once at the site, a vertical profile is done using another YSI sonde instrument that measures depth, water temperature, pH, and dissolved oxygen. The sonde displays readings for these parameters on a small handheld computer and can be held at the same approximate depth as the sondes in the water to compare readings. During site visits, these measurements are compared to the readings from the sondes already in the water ('old') and those that were swapped into the water ('new') at the appropriate depths. If time allows, the profile sonde was also used to take measurements at various depths through the rest of the water column to determine the amount of stratification and differences in parameter values with varying depth.

All field work information is recorded on a Field Sheet, which is later placed in a Field Sheet binder in the EMDA office. All calibration, post-deployment and field information is provided in a metadata document to the Fixed Site Network for data editing purposes.

Phillipsdale Landing Dock Site

The Phillipsdale Landing (Phillipsdale) station is unique in that it is very close to large freshwater river sources and is also open to the tidal estuarine Providence River. Therefore, it receives seawater flushing during the tidal cycle and the transport of saltier bottom waters in the form of a salt wedge. This makes the Seekonk River a tidal estuary, defined as a place of fresh and saltwater mixing, in the truest sense. The Phillipsdale Landing site is located very close to shore and is on the edge of the shipping channel in the Seekonk River.

The freshwater rivers feeding the Seekonk River include the Blackstone River which is north of the Phillipsdale site and feeds directly into the Seekonk River as its major source and the Ten Mile River which enters the Seekonk River just south of the Phillipsdale station. The Blackstone River streamflow averages approximately 700 cubic feet per second. For comparison, the next two largest freshwater inputs to Narragansett Bay are the Taunton River, averaging approximately 500 cubic feet per second, and the Pawtuxet River, averaging approximately 300 cubic feet per second.

The location of this site allows staff to have easy access to the water quality instruments from shore, allowing them to get to the instruments more quickly and attempt to remedy any problems.

Bullock's Reach Site

The Bullock's Reach Site sonde location is situated on a floating YSI buoy that is anchored near the edge of the shipping channel in the southern section of the Providence River. This location is in deeper, more saline waters than the Phillipsdale Landing station and is less proximate to fresh water sources and receives a greater degree of dilution by the saltier waters of the mid-Bay. The most proximate freshwater source would be the Pawtuxet River located to the northwest of the buoy site. During the 2010 season the position of the buoy was to the northwest of Conimicut Point at 41^{o}.43.944 North and 71^{o}.22.214 West in about 26 feet of water (about 8 meters), west of the Providence River channel. The bottom and mid depth sondes are attached to the buoy on one line with a mushroom anchor at the bottom and a float just above the sonde to keep it in an upright position. The surface sonde is placed in a PVC tube that is integrated into the buoy that allows protected but free flowing access to the surface water. Power to the buoy is maintained by a solar powered battery.

Data Management

Currently, the Bullock's Reach and Phillipsdale Landing sites are programmed to transmit data every hour to a computer referred to as the base station at NBC. This data is

then stored on the computer in monthly files. The data can be uploaded and viewed anytime in order to assess and troubleshoot problems. During the summer months, the raw unedited data is also sent to the Fixed Site Network coordinator to determine if the Bay is experiencing hypoxic conditions and is then posted on the RIDEM's BART website. At the conclusion of the season, all data is sent to the Fixed Site Network coordinator for further editing and correcting. The data was not included in paper format as with the other tables due to the extensive nature of this sampling.

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
1/1/2010	8	46.83	91	145	14	20
1/2/2010	5	47.53	93	128	9	12
1/3/2010	11	44.67	94	116	10	15
1/4/2010	13	45.02	109	154	15	24
1/5/2010	12	43.38	101	155	14	21
1/6/2010	39	41.54	109	153	14	28
1/7/2010	50	43.33	107	163	13	19
1/8/2010	26	40.82	146	179	19	28
1/9/2010	29	40.31	106	157	11	21
1/10/2010	14	40.32	107	165	12	25
1/11/2010	20	39.85	129	153	15	27
1/12/2010	39	39.93	117	123	11	23
1/13/2010	28	38.92	202	194	16	23
1/14/2010	6	39.77	130	162	16	27
1/15/2010	20	38.79	118	165	11	23
1/16/2010	26	36.55	124	179	13	25
1/17/2010	7	58.07	131	135	16	19
1/18/2010	14	53.26	85	112	20	27
1/19/2010	20	66.54	72	82	10	15
1/20/2010	29	67.66	63	96	8	15
1/21/2010	49	61.58	77	89	9	14
1/22/2010	37	42.03	115	155	10	30
1/23/2010	62	44.12	103	170	11	17
1/24/2010	25	42.86	103	138	9	17
1/25/2010	15	67.63	141	95	8	12
1/26/2010	23	72.45	69	107	10	14
1/27/2010	25	71.23	65	91	16	17
1/28/2010	50	61.15	72	77	7	13
1/29/2010	39	47.47	93	152	13	15
1/30/2010	26	47.11	85	142	12	19
1/31/2010	16	46.88	86	127	10	15
2/1/2010	7	44.33	136	102	24	26
2/2/2010	9	42.30	113	95	28	25
2/3/2010	15	46.40	329	306	14	17
2/4/2010	23	41.80	112	164	21	26
2/5/2010	50	42.44	109	145	11	17
2/6/2010	11	40.29	129	189	11	18
2/7/2010	15	42.39	104	99	13	19
2/8/2010	15	39.81	127	181	17	19
2/9/2010	13	39.42	134	170	12	21
2/10/2010	25	43.89	142	158	7	14
2/11/2010	63	41.48	105	159	15	22
2/12/2010	15	38.04	111	171	20	26

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
2/13/2010	6	38.96	118	139	15	21
2/14/2010	7	37.35	129	134	14	15
2/15/2010	12	37.74	157	177	13	22
2/16/2010	18	41.74	131	182	5	14
2/17/2010	14	37.55	140	171	19	26
2/18/2010	10	38.29	134	167	12	18
2/19/2010	30	34.89	135	203	10	20
2/20/2010	12	35.86	122	174	7	16
2/21/2010	15	41.56	116	158	15	13
2/22/2010	10	35.30	142	133	13	17
2/23/2010	34	57.20	179	117	15	22
2/24/2010	23	98.44	96	54	25	20
2/25/2010	15	122.67	66	53	13	16
2/26/2010	23	100.88	43	63	16	17
2/27/2010	15	73.86	44	71	25	34
2/28/2010	39	74.57	59	80	20	27
3/1/2010	41	74.39	65	91	14	18
3/2/2010	17	72.40	57	106	13	17
3/3/2010	37	61.01	73	128	12	14
3/4/2010	23	55.29	89	113	12	11
3/5/2010	17	51.07	80	131	11	13
3/6/2010	30	55.67	73	114	7	10
3/7/2010	10	49.60	65	126	14	15
3/8/2010	30	50.55	100	145	3	8
3/9/2010	30	47.92	107	142	14	17
3/10/2010	25	46.13	92	149	14	13
3/11/2010	30	45.43	112	144	11	12
3/12/2010	33	46.72	112	139	12	11
3/13/2010	40	88.15	102	89	18	18
3/14/2010	26	112.73	53	75	18	17
3/15/2010	46	105.83	80	73	14	13
3/16/2010	40	73.34	63	103	12	16
3/17/2010	23	74.27	90	96	12	17
3/18/2010	41	75.08	57	101	8	11
3/19/2010	39	75.20	91	106	8	9
3/20/2010	13	72.80	59	86	7	11
3/21/2010	9	70.24	85	83	12	12
3/22/2010	32	61.42	123	139	8	12
3/23/2010	5	122.56	63	62	10	11
3/24/2010	19	76.22	47	76	12	9
3/25/2010	30	75.53	67	77	2	8
3/26/2010	17	89.51	73	82	12	13
3/27/2010	25	75.37	46	71	8	10

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
3/28/2010	29	76.67	100	86	15	10
3/29/2010	46	128.39	70	60	15	11
3/30/2010	30	147.81	63	>32.6	6	7
3/31/2010	50	132.31	41	46	7	6
4/1/2010	50	122.75	46	48	8	6
4/2/2010	29	111.25	60	72	6	5
4/3/2010	42	77.28	57	73	11	7
4/4/2010	43	80.23	66	72	4	7
4/5/2010	38	101.68	59	66	18	5
4/6/2010	18	96.84	63	82	9	7
4/7/2010	49	85.62	71	69	10	8
4/8/2010	81	64.81	87	83	5	8
4/9/2010	39	74.60	88	89	10	8
4/10/2010	42	73.16	59	110	8	8
4/11/2010	25	69.30	79	102	8	8
4/12/2010	57	74.11	69	95	7	8
4/13/2010	39	65.05	95	84	11	6
4/14/2010	50	55.98	97	137	8	9
4/15/2010	81	56.45	110	110	14	10
4/16/2010	50	64.36	109	129	10	9
4/17/2010	46	63.28	77	103	19	13
4/18/2010	39	52.51	101	115	15	12
4/19/2010	62	53.05	105	135	12	9
4/20/2010	57	49.67	106	123	16	14
4/21/2010	62	51.72	119	139	11	9
4/22/2010	80	63.44	191	129	20	16
4/23/2010	41	58.73	86	122	14	16
4/24/2010	49	48.15	75	121	9	9
4/25/2010	23	54.60	89	110	20	13
4/26/2010	20	53.07	127	136	15	13
4/27/2010	18	50.82	126	153	18	13
4/28/2010	18	49.22	93	125	11	14
4/29/2010	39	45.12	100	119	16	13
4/30/2010	11	47.01	108	145	13	12
5/1/2010	30	44.75	117	162	17	13
5/2/2010	13	45.09	124	148	19	12
5/3/2010	50	54.78	120	168	16	13
5/4/2010	50	48.14	95	131	14	15
5/5/2010	20	45.58	99	141	24	14
5/6/2010	37	42.23	115	154	19	15
5/7/2010	49	43.25	121	156	16	16
5/8/2010	26	65.65	119	121	28	20
5/9/2010	34	65.27	81	102	25	18

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
5/10/2010	40	43.31	113	143	16	20
5/11/2010	50	41.51	109	136	14	12
5/12/2010	34	43.26	125	152	15	12
5/13/2010	102	41.96	125	150	10	11
5/14/2010	95	41.66	137	177	10	11
5/15/2010	170	41.49	125	171	10	12
5/16/2010	84	37.69	141	172	14	12
5/17/2010	136	42.83	137	165	12	14
5/18/2010	80	55.22	158	159	26	24
5/19/2010	39	63.02	79	126	20	19
5/20/2010	106	53.85	95	135	10	13
5/21/2010	102	42.13	118	175	9	14
5/22/2010	124	39.94	133	171	7	14
5/23/2010	80	40.12	117	152	11	13
5/24/2010	155	40.90	134	170	9	15
5/25/2010	292	40.33	134	169	9	14
5/26/2010	173	45.84	148	182	13	16
5/27/2010	144	36.71	139	191	8	13
5/28/2010	92	43.38	135	185	13	18
5/29/2010	112	50.38	140	154	28	26
5/30/2010	16	41.65	94	138	10	12
5/31/2010	102	38.06	116	159	12	14
6/1/2010	39	49.35	176	150	15	16
6/2/2010	39	41.74	113	171	9	11
6/3/2010	26	38.40	135	161	12	9
6/4/2010	81	38.71	133	188	10	14
6/5/2010	7	49.30	120	162	12	16
6/6/2010	17	51.16	88	132	5	12
6/7/2010	5	34.62	145	201	8	12
6/8/2010	23	38.85	167	193	11	15
6/9/2010	20	51.99	130	142	21	31
6/10/2010	14	40.19	133	141	11	12
6/11/2010	49	35.64	138	143	10	15
6/12/2010	80	50.20	141	133	22	19
6/13/2010	14	61.88	75	78	10	15
6/14/2010	47	52.86	57	132	9	12
6/15/2010	30	49.16	105	140	7	11
6/16/2010	30	39.30	142	165	11	13
6/17/2010	26	37.00	133	145	9	13
6/18/2010	158	37.74	169	139	12	13
6/19/2010	130	35.35	118	191	14	21
6/20/2010	26	41.60	132	148	24	32
6/21/2010	5	37.17	149	177	19	20

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
6/22/2010	2	44.49	169	244	17	29
6/23/2010	2	49.81	114	138	13	16
6/24/2010	5	36.35	122	164	7	12
6/25/2010	20	36.39	135	199	10	10
6/26/2010	3	36.68	108	162	7	11
6/27/2010	3	35.41	120	157	15	19
6/28/2010	5	47.27	171	152	13	20
6/29/2010	32	42.76	97	152	4	12
6/30/2010	72	33.18	143	194	7	9
7/1/2010	122	36.31	138	197	6	14
7/2/2010	11	34.65	139	195	14	21
7/3/2010	3	30.29	114	177	5	14
7/4/2010	2	33.65	125	161	10	13
7/5/2010	2	34.92	126	181	10	15
7/6/2010	2	41.62	115	148	10	21
7/7/2010	2	37.66	153	174	14	18
7/8/2010	2	37.48	138	201	11	8
7/9/2010	2	39.58	148	205	10	14
7/10/2010	2	48.64	129	163	16	20
7/11/2010	2	51.85	82	150	8	7
7/12/2010	2	40.04	137	142	8	11
7/13/2010	2	40.17	147	191	11	14
7/14/2010	2	55.59	115	129	20	22
7/15/2010	3	47.99	135	157	9	10
7/16/2010	5	59.94	76	111	9	12
7/17/2010	12	52.06	83	148	9	11
7/18/2010	3	47.79	79	141	7	10
7/19/2010	4	45.52	137	155	14	16
7/20/2010	2	44.49	101	138	6	11
7/21/2010	5	42.31	132	192	15	18
7/22/2010	3	37.50	111	180	9	12
7/23/2010	13	48.02	140	169	22	21
7/24/2010	7	48.60	99	137	9	16
7/25/2010	25	46.64	75	131	6	9
7/26/2010	14	38.52	147	197	10	11
7/27/2010	46	35.34	138	205	15	14
7/28/2010	25	36.08	145	198	13	13
7/29/2010	15	35.27	146	248	14	18
7/30/2010	17	34.12	132	205	11	16
7/31/2010	30	34.48	178	200	13	18
8/1/2010	27	32.23	119	275	14	17
8/2/2010	55	32.18	163	217	13	15
8/3/2010	43	34.24	152	205	15	15

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
8/4/2010	75	37.29	126	211	14	18
8/5/2010	39	39.97	185	187	20	29
8/6/2010	74	36.61	125	204	14	18
8/7/2010	106	33.05	112	178	12	19
8/8/2010	94	31.84	116	177	9	15
8/9/2010	155	34.03	126	242	16	23
8/10/2010	25	34.89	133	183	21	21
8/11/2010	49	34.76	131	204	11	17
8/12/2010	55	32.35	146	221	15	22
8/13/2010	43	34.08	133	232	14	18
8/14/2010	62	32.47	127	198	16	19
8/15/2010	155	32.80	151	206	16	18
8/16/2010	63	34.94	204	240	13	17
8/17/2010	81	33.43	143	300	13	13
8/18/2010	80	30.82	105	186	11	14
8/19/2010	39	34.83	139	208	13	13
8/20/2010	15	33.95	133	197	14	16
8/21/2010	19	30.79	122	178	14	15
8/22/2010	57	52.21	122	147	22	21
8/23/2010	37	53.46	94	183	15	18
8/24/2010	141	55.81	89	139	16	14
8/25/2010	83	59.12	81	117	11	11
8/26/2010	387	39.67	115	169	11	9
8/27/2010	62	33.78	116	180	8	11
8/28/2010	155	34.75	139	203	11	11
8/29/2010	63	33.28	115	174	9	9
8/30/2010	95	34.06	170	277	13	13
8/31/2010	196	33.43	143	187	6	11
9/1/2010	41	33.86	151	186	11	10
9/2/2010	17	37.08	142	174	8	9
9/3/2010	8	57.03	121	119	14	15
9/4/2010	14	50.53	81	127	8	12
9/5/2010	14	44.17	103	139	8	15
9/6/2010	15	38.66	131	251	13	14
9/7/2010	13	35.00	141	174	6	11
9/8/2010	49	34.68	126	216	9	13
9/9/2010	117	32.92	134	199	12	16
9/10/2010	33	34.61	125	154	11	17
9/11/2010	300	32.82	115	180	11	16
9/12/2010	429	32.66	130	207	13	16
9/13/2010	30	32.87	105	207	12	16
9/14/2010	13	34.89	107	218	11	19
9/15/2010	4	32.05	130	190	13	15

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
9/16/2010	8	49.48	210	194	28	31
9/17/2010	2	47.16	91	137	16	18
9/18/2010	10	30.78	116	182	11	17
9/19/2010	2	33.04	137	207	13	16
9/20/2010	2	33.75	185	203	17	21
9/21/2010	2	29.49	102	172	13	14
9/22/2010	3	35.50	168	199	15	19
9/23/2010	4	31.36	157	221	16	21
9/24/2010	3	30.26	154	308	10	17
9/25/2010	3	33.23	125	191	10	19
9/26/2010	5	31.04	135	216	13	21
9/27/2010	38	32.17	170	261	8	19
9/28/2010	10	48.52	205	186	19	32
9/29/2010	13	36.79	129	207	13	16
9/30/2010	7	34.83	159	186	17	14
10/1/2010	10	55.22	137	140	23	29
10/2/2010	50	34.24	113	184	13	13
10/3/2010	25	37.63	127	187	15	19
10/4/2010	32	36.00	147	203	17	17
10/5/2010	50	47.99	141	187	18	18
10/6/2010	49	63.27	99	82	24	20
10/7/2010	107	59.53	74	115	22	24
10/8/2010	117	59.41	65	109	17	20
10/9/2010	300	37.76	115	180	14	14
10/10/2010	387	34.36	124	157	9	16
10/11/2010	297	35.23	142	190	18	23
10/12/2010	20	32.76	142	180	15	19
10/13/2010	102	34.91	205	206	20	26
10/14/2010	14	47.15	179	169	19	22
10/15/2010	16	62.54	76	102	19	19
10/16/2010	23	51.06	123	140	24	18
10/17/2010	10	55.58	104	112	11	17
10/18/2010	34	34.06	133	180	18	20
10/19/2010	61	34.84	126	176	18	22
10/20/2010	26	35.58	155	177	20	20
10/21/2010	46	33.36	135	184	19	23
10/22/2010	62	33.99	135	177	23	19
10/23/2010	117	32.48	121	199	22	21
10/24/2010	387	34.42	193	185	24	22
10/25/2010	109	32.26	164	213	29	26
10/26/2010	49	33.43	170	192	23	21
10/27/2010	124	38.74	200	217	19	20
10/28/2010	65	30.52	126	168	18	19

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
10/29/2010	49	31.66	136	203	19	19
10/30/2010	18	32.40	133	213	14	16
10/31/2010	41	30.00	120	189	13	11
11/1/2010	34	37.50	141	128	13	14
11/2/2010	30	32.04	156	226	23	24
11/3/2010	50	31.57	173	199	27	22
11/4/2010	173	62.12	140	158	23	30
11/5/2010	23	44.97	109	161	18	25
11/6/2010	63	46.04	101	142	16	21
11/7/2010	32	44.32	119	176	12	18
11/8/2010	145	63.44	111	107	18	17
11/9/2010	92	44.25	96	120	14	16
11/10/2010	63	35.09	126	185	13	19
11/11/2010	92	34.51	125	181	13	16
11/12/2010	20	36.65	126	176	10	13
11/13/2010	81	34.75	146	195	23	21
11/14/2010	81	35.81	129	181	23	22
11/15/2010	52	34.12	147	186	17	14
11/16/2010	50	45.88	171	177	18	23
11/17/2010	41	55.17	135	179	15	18
11/18/2010	20	56.73	74	106	31	30
11/19/2010	39	59.23	76	115	13	16
11/20/2010	73	38.28	113	226	22	23
11/21/2010	107	36.88	129	175	23	22
11/22/2010	4	35.72	143	167	21	23
11/23/2010	3	35.01	119	178	18	20
11/24/2010	20	35.55	138	178	17	20
11/25/2010	30	34.32	139	189	22	20
11/26/2010	10	34.64	131	182	20	20
11/27/2010	10	35.98	144	182	19	21
11/28/2010	49	33.66	153	180	30	19
11/29/2010	13	32.95	149	179	17	20
11/30/2010	19	35.01	140	189	19	17
12/1/2010	21	51.69	163	139	17	21
12/2/2010	50	51.55	87	146	15	18
12/3/2010	39	33.98	117	164	13	19
12/4/2010	80	34.64	166	182	20	23
12/5/2010	50	33.53	123	178	12	19
12/6/2010	80	34.44	134	193	16	19
12/7/2010	92	35.86	125	196	18	21
12/8/2010	59	33.87	123	159	15	19
12/9/2010	32	32.57	130	197	20	24
12/10/2010	30	32.23	131	181	18	21

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Field's Point 2010Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
12/11/2010	80	33.94	139	203	20	25
12/12/2010	21	77.44	141	116	21	23
12/13/2010	46	64.08	74	119	16	24
12/14/2010	159	67.85	59	114	20	27
12/15/2010	106	62.32	67	106	15	21
12/16/2010	34	56.69	79	129	12	19
12/17/2010	49	54.08	89	122	15	18
12/18/2010	34	44.44	93	146	16	22
12/19/2010	22	39.19	108	145	14	17
12/20/2010	20	39.12	100	113	13	17
12/21/2010	25	40.20	97	138	11	16
12/22/2010	7	38.83	103	168	11	19
12/23/2010	25	38.36	127	170	9	19
12/24/2010	7	37.14	125	172	16	22
12/25/2010	10	34.84	160	174	15	17
12/26/2010	25	35.26	131	158	17	19
12/27/2010	26	35.26	109	181	19	24
12/28/2010	15	35.50	115	190	20	25
12/29/2010	17	36.33	117	169	17	22
12/30/2010	26	34.94	137	163	21	19
12/31/2010	30	36.35	137	191	14	26

Table 1: Field's Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
1/1/10	50	22.22	140	188	18	14
1/2/10	33	22.03	145	165	20	13
1/3/10	19	21.51	125	166	16	10
1/4/10	24	20.38	132	158	17	11
1/5/10	23	21.19	238	260	24	12
1/6/10	26	19.98	211	198	13	12
1/7/10	45	19.87	159	179	18	11
1/8/10	21	19.85	133	199	18	12
1/9/10	36	18.81	133	187	16	11
1/10/10	43	18.52	151	147	14	12
1/11/10	24	19.35	177	184	18	15
1/12/10	63	18.78	197	161	15	12
1/13/10	17	18.49			16	10
1/14/10	26	18.30	286	185	14	12
1/15/10	30	19.12	147	185	17	9
1/16/10	23	18.32	161	196	13	8
1/17/10	30	29.53	139	215	12	17
1/18/10	75	45.24	157	154	26	10
1/19/10	33	25.91	169	149	16	12
1/20/10	18	21.03	148	138	20	11
1/21/10	13	19.95	139	158	13	9
1/22/10	7	19.96	137	176	16	10
1/23/10	15	19.12	183	183	15	7
1/24/10	8	19.69	140	157	13	6
1/25/10	9	44.47	213	203	16	9
1/26/10	11	24.58	113	52	12	6
1/27/10	10	22.56	99	76	12	7
1/28/10	3	23.11	130	84	11	6
1/29/10	32	21.71	119	132	12	7
1/30/10	7	22.21	120	130	12	8
1/31/10	11	20.49	117	146	7	6
2/1/10	3	20.70	145	171	11	4
2/2/10	9	21.12	145	131	9	5
2/3/10	5	20.61	189	178	9	4
2/4/10	13	19.64	151	181	10	6
2/5/10	7	19.20	148	178	7	6
2/6/10	16	19.51	142	159	7	5
2/7/10	3	18.50	145	126	6	5
2/8/10	3	18.78	165	154	13	5
2/9/10	5	17.95	157	158	10	6
2/10/10	11	20.44	161	175	7	7
2/11/10	13	18.80	164	201	7	8
2/12/10	6	16.95	149	219	13	6

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
2/13/10	10	17.64	189	148	11	5
2/14/10	4	16.71	176	169	7	5
2/15/10	7	17.35	154	176	6	6
2/16/10	20	19.44	169	181	4	5
2/17/10	7	18.48	171	176	8	6
2/18/10	8	17.03	182	192	9	5
2/19/10	4	16.90	159	192	14	5
2/20/10	5	16.59	164	146	8	3
2/21/10	5	16.47	179	197	19	7
2/22/10	2	16.31	154	162	6	5
2/23/10	3	24.99	197	171	15	7
2/24/10	44	79.55	258	87	24	10
2/25/10	3	54.21	104	85	16	10
2/26/10	3	41.71	79	64	68	37
2/27/10	6	43.53	67	50	9	9
2/28/10	2	29.82	84	101	10	6
3/1/10	2	31.43	63	120	6	5
3/2/10	2	26.00	89	121	6	5
3/3/10	2	28.08	104	132	8	7
3/4/10	2	26.93	111	117	11	5
3/5/10	2	25.26	105	127	7	5
3/6/10	2	23.19	92	128	6	5
3/7/10	2	22.50	105	122	7	4
3/8/10	2	22.30	96	131	5	3
3/9/10	2	21.66	135	182	3	3
3/10/10	2	21.25	125	169	4	4
3/11/10	2	21.85	162	167	4	3
3/12/10	2	21.64	188	206	7	3
3/13/10	2	50.26	174	171	30	12
3/14/10	13	76.09	103	78	61	20
3/15/10	11	67.44	70	87	22	6
3/16/10	2	50.69	53	63	39	21
3/17/10	31	37.23			62	34
3/18/10	2	31.69	87	96	12	10
3/19/10	2	29.44	106	98	8	4
3/20/10	2	28.04	135	120	5	3
3/21/10	2	26.37	132	127	4	3
3/22/10	2	27.81	97	121	6	4
3/23/10	3	77.71	146	130	100	63
3/24/10	5	43.31	59	74	51	28
3/25/10	2	36.56	79	66	13	8
3/26/10	2	38.88	85	88	18	11
3/27/10	2	30.92	81	100	15	6

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
3/28/10	2	30.95	107	120	4	3
3/29/10	2	84.15	93	103	19	8
3/30/10	2	112.83	45	54	9	7
3/31/10	2	93.67	41	46	8	4
4/1/10	2	79.02	52	43	8	4
4/2/10	2	62.99	45	50	7	4
4/3/10	2	49.97	49	54	5	4
4/4/10	2	44.14	81	80	10	5
4/5/10	2	40.68	77	63	10	7
4/6/10	2	41.05	92	139	9	5
4/7/10	2	38.62	96	79	9	4
4/8/10	2	34.40	94	90	6	6
4/9/10	2	55.28	111	114	7	6
4/10/10	2	35.02	62	58	7	7
4/11/10	2	33.11	90	92	8	5
4/12/10	2	31.99	72	85	9	4
4/13/10	2	31.03	93	127	6	4
4/14/10	2	29.21	107	115	7	5
4/15/10	2	28.27	124	141	5	4
4/16/10	2	32.01	103	129	5	4
4/17/10	2	35.04	125	132	4	4
4/18/10	2	28.70	93	107	6	3
4/19/10	2	26.13	104	107	7	3
4/20/10	3	25.75	127	157	6	4
4/21/10	2	25.81	120	123	7	3
4/22/10	2	28.45	137	126	5	4
4/23/10	2	25.19	137	144	3	3
4/24/10	3	23.74	105	128	2	2
4/25/10	2	25.66	113	137	4	2
4/26/10	2	25.74	116	143	3	3
4/27/10	4	29.70	155	168	4	4
4/28/10	2	24.71	233	166	4	3
4/29/10	2	22.51	175	135	5	3
4/30/10	4	22.03	121	138	2	3
5/1/10	3	21.76	124	147	4	3
5/2/10	5	21.54	144	148	5	3
5/3/10	6	26.56	161	178	21	8
5/4/10	5	22.17	128	141	34	19
5/5/10	5	20.90	136	146	49	21
5/6/10	4	21.05	131	158	7	5
5/7/10	4	19.92	137	149	6	4
5/8/10	3	38.60	153	156	68	29
5/9/10	3	20.35	111	146	8	3

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
5/10/10	3	21.02	105	163	7	5
5/11/10	7	20.45	118	148	6	4
5/12/10	3	21.79	131	169	5	5
5/13/10	7	20.39	131	141	6	4
5/14/10	13	21.45	162	183	7	4
5/15/10	6	19.59	137	152	10	4
5/16/10	8	18.41	138	158	10	3
5/17/10	13	19.21	142	153	10	4
5/18/10	15	33.02	153	153	16	6
5/19/10	7	27.80	147	155	11	5
5/20/10	7	20.08	127	150	10	4
5/21/10	8	18.85	152	204	8	5
5/22/10	6	19.08	141	178	5	3
5/23/10	6	18.57	145	159	9	5
5/24/10	7	18.98	132	174	12	4
5/25/10	23	18.55	168	184	11	4
5/26/10	12	17.39	166	167	11	6
5/27/10	21	22.53	206	202	9	6
5/28/10	21	17.36	149	182	20	7
5/29/10	16	22.25	161	187	16	6
5/30/10	26	16.86	169	179	18	7
5/31/10	12	16.84	120	156	17	7
6/1/10	28	23.34	136	168	22	10
6/2/10	102	17.48	175	194	15	5
6/3/10	23	21.37	148	149	12	3
6/4/10	26	17.90	190	180	10	7
6/5/10	16	20.14	155	168	9	6
6/6/10	23	17.45	137	181	5	5
6/7/10	32	16.78	147	176	7	5
6/8/10	25	16.81	173	184	8	4
6/9/10	21	27.05	174	202	10	7
6/10/10	43	21.26	202	223	6	3
6/11/10	52	17.75	168	155	5	4
6/12/10	3	20.59	147	208	5	4
6/13/10	10	29.15	143	130	6	3
6/14/10	11	17.83	109	165	7	5
6/15/10	15	17.45	193	210	5	<2
6/16/10	8	17.85	151	173	3	5
6/17/10	14	18.91	195	188	5	3
6/18/10	3	16.60	203	163	4	2
6/19/10	4	16.85	171	244	6	<2
6/20/10	15	25.89	171	192	8	<2
6/21/10	40	16.84	145	166	3	3

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
6/22/10	146	17.01	171	210	4	2
6/23/10	32	24.80	181	182	5	3
6/24/10	9	17.43	171	187	4	4
6/25/10	5	16.00	171	208	6	4
6/26/10	3	15.82	178	205	4	3
6/27/10	2	15.72	169	222	3	3
6/28/10	2	20.32	188	219	5	3
6/29/10	4	15.82	144	207	3	3
6/30/10	8	15.74	250	229	5	3
7/1/10	3	15.72	167	303	5	3
7/2/10	2	15.31	227	258	<2.0	3
7/3/10	5	14.85	199	256	4	3
7/4/10	2	13.53	171	217	<2.0	<1.36
7/5/10	3	14.00	164	199	6	3
7/6/10	4	14.63	159	219	7	2
7/7/10	2	14.96	205	252	4	2
7/8/10	3	15.41	204	268	3	2
7/9/10	5	15.59	190	238	4	4
7/10/10	2	25.21	231	289	6	3
7/11/10	3	15.19	186	238	4	<2
7/12/10	4	15.74	139	166	3	2
7/13/10	3	17.22	177	232	4	<2
7/14/10	5	36.05	231	268	5	3
7/15/10	3	18.95	122	115	3	2
7/16/10	4	17.79	157	214	4	<2
7/17/10	9	16.47	161	261	2	<2
7/18/10	3	15.55	163	227	4	2
7/19/10	3	22.42	195	221	2	2
7/20/10	5	16.99	149	192	3	<2
7/21/10	5	18.31	171	242	2	2
7/22/10	3	16.31	213	269	2	2
7/23/10	6	23.09	179	243	6	3
7/24/10	4	19.29	171	169	<2.0	2
7/25/10	6	15.69	141	187	2	2
7/26/10	3	15.74	174	210	2	2
7/27/10	7	14.72	179	233	<2.0	<2
7/28/10	4	16.60	247	270	2	<2
7/29/10	6	16.04	166	239	3	2
7/30/10	13	15.00	176	217	6	3
7/31/10	8	14.80	167	220	5	3
8/1/10	8	14.41	171	301	3	2
8/2/10	7	15.32	198	212	2	3
8/3/10	10	15.78	233	198	3	2

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
8/4/10	43	15.76	207	218	5	3
8/5/10	8	20.85	222	359	7	4
8/6/10	11	15.28	201	239	6	4
8/7/10	12	15.01	169	200	6	5
8/8/10	20	16.10	191	214	3	4
8/9/10	8	14.51	175	219	3	6
8/10/10	17	15.53	246	301	7	4
8/11/10	11	14.09	220	253	3	3
8/12/10	11	14.51	226	270	5	5
8/13/10	11	13.79	197	283	4	5
8/14/10	25	13.95	168	233	3	2
8/15/10	11	14.27	187	240	8	3
8/16/10	5	16.07	185	275	2	3
8/17/10	5	14.86	193	263	3	4
8/18/10	9	14.46	232	244	<2.0	3
8/19/10	30	13.87	236	244	4	3
8/20/10	10	13.69	189	239	3	2
8/21/10	5	13.61	171	228	3	2
8/22/10	6	32.50	189	231	5	4
8/23/10	4	33.38	101	148	6	4
8/24/10	3	22.58	122	164	3	3
8/25/10	7	29.77	91	124	<2.0	3
8/26/10	6	15.64	193	234	6	3
8/27/10	5	14.74	155	203	3	2
8/28/10	5	14.15	165	200	6	2
8/29/10	2	13.58	187	269	2	<2
8/30/10	2	14.19	207	228	3	2
8/31/10	5	14.09	246	198	3	<2
9/1/10	143	13.82	233	292	5	3
9/2/10	6	14.34	249	259	5	3
9/3/10	3	30.05	231	254	3	3
9/4/10	10	22.48	135	138	2	<2
9/5/10	2	13.61	147	258	3	2
9/6/10	2	14.15	163	190	3	<2
9/7/10	3	15.20	189	134	3	<2
9/8/10	3	15.67	175	238	3	2
9/9/10	6	15.00	208	233	2	<2
9/10/10	2	14.62	201	246	4	2
9/11/10	2	13.84	176	209	2	4
9/12/10	229	14.54	183	282	3	3
9/13/10	5	15.04	137	222	<2.0	4
9/14/10	9	14.41	151	225	2	4
9/15/10	28	13.92	236	269	5	3

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
9/16/10	3	18.70	219	268	6	6
9/18/10	2	14.45	154	231	2	3
9/19/10	3	13.99	175	233	3	2
9/20/10	3	13.49	184	210	3	2
9/21/10	2	13.48	199	226	4	<2
9/22/10	6	14.01	260	236	3	2
9/23/10	3	13.53	251	253	4	2
9/24/10	3	14.37	211	258	2	3
9/25/10	5	13.94	202	206	3	2
9/26/10	3	13.54	201	278	3	<2
9/27/10	6	15.84	229	290	2	<2
9/28/10	5	25.26	201	267	3	2
9/29/10	14	14.52	196	206	2	<2
9/30/10	2	15.71	213	249	<2.0	<2
10/1/10	4	25.49	226	237	6	6
10/2/10	4	15.40	110	142	4	<2
10/3/10	2	14.29	185	207	3	2
10/4/10	3	19.33	206	210	3	2
10/5/10	4	20.61	128	136	2	2
10/6/10	4	46.47	139	135	2	2
10/7/10	2	17.39	123	145	4	<2
10/8/10	3	15.91	167	203	3	2
10/9/10	4	14.80	179	263	2	<2
10/10/10	2	14.15	147	182	2	<2
10/11/10	2	15.12	192	210	4	<2
10/12/10	2	15.16	176	217	<2.0	<2
10/13/10	2	14.29	224	219	2	<2
10/14/10	3	16.79	202	239	2	3
10/15/10	7	41.20	171	177	3	3
10/16/10	2	16.58	136	199	2	<2
10/17/10	2	15.55	212	194	3	<2.0
10/18/10	2	15.90	165	189	2	<2
10/19/10	2	15.53	191	226	2	<2
10/20/10	2	15.98	215	211	6	3
10/21/10	23	16.45	222	297	3	2
10/22/10	3	15.39	206	291	4	2
10/23/10	3	14.96	201	243	2	<2
10/24/10	2	15.84	206	238	6	<2
10/25/10	4	15.98	207	213	4	<2
10/26/10	4	15.53	311	259	<2	<2
10/27/10	3	18.90	231	226	<2.0	<2
10/28/10	2	15.29	220	233	2	2
10/29/10	10	15.19	191	218	4	<2

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
10/30/10	4	14.57	193	228	7	<2
10/31/10	3	13.98	169	224	3	<2
11/1/10	4	13.89	176	305	4	<2
11/2/10	5	14.96	259	305	4	2
11/3/10	7	15.08	227	239	2	<2
11/4/10	8	27.62	251	279	17	13
11/5/10	43	28.35	133	153	9	5
11/6/10	5	15.57	171	222	2	3
11/7/10	8	15.50	169	191	5	3
11/8/10	11	34.84	173	160	14	7
11/9/10	5	23.66	107	171	7	8
11/10/10	7	17.37	170	199	3	3
11/11/10	7	16.04	175	221	3	3
11/12/10	12	16.18	167	248	3	5
11/13/10	20	15.95	191	238	5	3
11/14/10	15	15.73	199	234	5	3
11/15/10	19	16.62	215	264	4	3
11/16/10	9	15.99	297	283	5	3
11/17/10	29	39.96	202	173	5	4
11/18/10	6	17.05	148	192	3	5
11/19/10	3	16.70	185	185	3	4
11/20/10	4	16.95	165	215	3	2
11/21/10	5	15.88	177	190	4	3
11/22/10	4	16.80	179	198	3	4
11/23/10	3	16.59	190	262	4	3
11/24/10	3	16.10	205	229	5	3
11/25/10	2	16.31	217	269	3	2
11/26/10	2	17.34	185	251	2	3
11/27/10	3	15.69	203	242	8	4
11/28/10	3	14.97	213	207	11	2
11/29/10	6	15.15	200	220	2	<2
11/30/10	5	15.90	219	213	2	3
12/1/10	3	32.31	201	229	6	6
12/2/10	34	16.07	178	204	6	3
12/3/10	3	16.11	161	226	6	3
12/4/10	2	15.47	173	188	6	4
12/5/10	3	15.77	187	228	6	4
12/6/10	3	15.62	159	229	4	4
12/7/10	3	15.53	181	267	4	4
12/8/10	3	15.14	217	245	5	3
12/9/10	7	14.94	220	274	5	3
12/10/10	3	15.27	185	239	2	5
12/11/10	3	15.12	241	282	7	4

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Bucklin Point 2010 Wastewater Treatment Plant
TSS, BOD and Fecal Coliform Data

Date	Fecal Coliform Bacteria (MPN/100 ml)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
12/12/10	3	50.83	279	212	14	8
12/13/10	32	36.27	107	90	4	6
12/14/10	12	20.88	118	155	4	4
12/15/10	2	20.19	133	174	4	4
12/16/10	5	19.11	143	161	5	3
12/17/10	9	18.46	160	198	6	3
12/18/10	3	18.52	145	185	6	4
12/19/10	3	18.98	148	176	2	3
12/20/10	3	18.45	165	205	7	3
12/21/10	3	18.32	167	180	5	3
12/22/10	3	18.08	117	167	3	3
12/23/10	5	18.23	169	227	3	3
12/24/10	2	17.45	193	215	7	4
12/25/10	2	17.00	183	227	2	2
12/26/10	2	17.10	181	195	9	4
12/27/10	8	17.08	169	211	5	3
12/28/10	3	16.42	203	227	3	3
12/29/10	2	16.88	200	255	2	3
12/30/10	4	16.32	279	251	6	3
12/31/10	2	17.29	312	286	5	5

Table 2: Bucklin Point TSS,BOD and Fecal Coliform Data

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
28-May-10	54	45	
29-May-10	13	112	
30-May-10	16	19	
31-May-10	10	28	
1-Jun-10	28	16	
2-Jun-10	37	15	46
3-Jun-10	19	20	
4-Jun-10	29	11	
5-Jun-10	113	24	
6-Jun-10	11	20	
7-Jun-10	31	NOT SAMPLED	
8-Jun-10	13	33	
9-Jun-10	23	119	
10-Jun-10	33	51	
11-Jun-10	34	28	
12-Jun-10	11	42	
13-Jun-10	44	46	
14-Jun-10	20	11	
15-Jun-10	6	15	
16-Jun-10	12	33	14
17-Jun-10	15	25	
18-Jun-10	33	19	
19-Jun-10	31	20	
20-Jun-10	8	28	
21-Jun-10	12	24	
22-Jun-10	17	48	
23-Jun-10	67	24	79
24-Jun-10	26	20	
25-Jun-10	4	16	
26-Jun-10	7	11	
27-Jun-10	9	11	
28-Jun-10	NOT SAMPLED	NOT SAMPLED	
29-Jun-10	11	NOT SAMPLED	
30-Jun-10	NOT SAMPLED	5	
1-Jul-10	22	7	
2-Jul-10	11	19	
3-Jul-10	5	13	
4-Jul-10	14	22	
5-Jul-10	15	5	
6-Jul-10	2	20	
7-Jul-10	7	4	
8-Jul-10	34	8	
9-Jul-10	3	19	
10-Jul-10	9	10	
11-Jul-10	13	6	
12-Jul-10	11	12	

Table 3: Field's Point Enterococci Data 2010

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
13-Jul-10	9	NOT SAMPLED	
14-Jul-10	NOT SAMPLED	NOT SAMPLED	21
15-Jul-10	24	14	
16-Jul-10	6	15	
17-Jul-10	12	16	
18-Jul-10	22	6	
19-Jul-10	4	10	
20-Jul-10	4	12	
21-Jul-10	8	9	46
22-Jul-10	9	7	
23-Jul-10	4	16	
24-Jul-10	23	13	
25-Jul-10	8	16	
26-Jul-10	18	7	
27-Jul-10	7	16	
28-Jul-10	11	15	12
29-Jul-10	9	16	
30-Jul-10	11	10	
31-Jul-10	12	33	
1-Aug-10	32	27	
2-Aug-10	22	NOT SAMPLED	
3-Aug-10	35	8	
4-Aug-10	10	15	16
5-Aug-10	17	14	
6-Aug-10	16	6	
7-Aug-10	12	11	
8-Aug-10	20	15	
9-Aug-10	5	8	
10-Aug-10	12	10	
11-Aug-10	13	11	40
12-Aug-10	10	27	
13-Aug-10	12	14	
14-Aug-10	1	11	
15-Aug-10	10	9	
16-Aug-10	12	44	
17-Aug-10	34	10	
18-Aug-10	12	12	5
19-Aug-10	19	30	
20-Aug-10	16	17	
21-Aug-10	20	27	
22-Aug-10	40	18	
23-Aug-10	26	12	
24-Aug-10	8	NOT SAMPLED	
25-Aug-10	NOT SAMPLED	29	
26-Aug-10	19	7	
27-Aug-10	15	<1	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
28-Aug-10	16	20	
29-Aug-10	5	17	
30-Aug-10	44	10	
31-Aug-10	8	15	
1-Sep-10	8	7	8
2-Sep-10	6	6	
3-Sep-10	4	66	
4-Sep-10	15	59	
5-Sep-10	61	16	
6-Sep-10	20	13	
7-Sep-10	12	8	
8-Sep-10	4	6	
9-Sep-10	NOT SAMPLED	14	
10-Sep-10	6	25	
11-Sep-10	26	25	
12-Sep-10	4	16	
13-Sep-10	19	25	
14-Sep-10	40	32	
15-Sep-10	20	29	14
16-Sep-10	20	33	
17-Sep-10	308	54	
18-Sep-10	26	43	
19-Sep-10	46	28	
20-Sep-10	22	23	
21-Sep-10	23	23	
22-Sep-10	35	NOT SAMPLED	
23-Sep-10	NOT SAMPLED	16	
24-Sep-10	12	20	19
25-Sep-10	12	11	
26-Sep-10	20	14	
27-Sep-10	19	22	
28-Sep-10	11	19	
29-Sep-10	16	28	31
30-Sep-10	23	21	
1-Oct-10	15	21	
2-Oct-10	16	5	
3-Oct-10	17	31	
4-Oct-10	17	13	
5-Oct-10	2	NOT SAMPLED	
6-Oct-10	NOT SAMPLED	23	
7-Oct-10	27	29	
8-Oct-10	28	26	
9-Oct-10	14	17	
10-Oct-10	11	30	
11-Oct-10	16	21	
12-Oct-10	16	27	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
13-Oct-10	22	27	19
14-Oct-10	9	89	
15-Oct-10	29	37	
16-Oct-10	24	48	
17-Oct-10	32	25	
18-Oct-10	6	51	
19-Oct-10	33	NOT SAMPLED	
20-Oct-10	NOT SAMPLED	8	
21-Oct-10	19	19	
22-Oct-10	25	22	
23-Oct-10	17	12	
24-Oct-10	16	NOT SAMPLED	
25-Oct-10	18	16	
26-Oct-10	11	23	
27-Oct-10	16	8	17
28-Oct-10	15	6	
29-Oct-10	13	12	
30-Oct-10	12	14	
31-Oct-10	16	22	
1-Nov-10	21	24	
2-Nov-10	24	29	
3-Nov-10	24	NOT SAMPLED	
4-Nov-10	NOT SAMPLED	722	
5-Nov-10	52	NOT SAMPLED	
6-Nov-10	NOT SAMPLED	NOT SAMPLED	
7-Nov-10	NOT SAMPLED	NOT SAMPLED	
8-Nov-10	NOT SAMPLED	NOT SAMPLED	
9-Nov-10	NOT SAMPLED	22	
10-Nov-10	18	20	21
11-Nov-10	24	25	
12-Nov-10	22	9	
13-Nov-10	15	NOT SAMPLED	
14-Nov-10	31	34	
15-Nov-10	26	30	
16-Nov-10	23	NOT SAMPLED	
17-Nov-10	NOT SAMPLED	NOT SAMPLED	
18-Nov-10	36	NOT SAMPLED	
19-Nov-10	NOT SAMPLED	NOT SAMPLED	
20-Nov-10	NOT SAMPLED	NOT SAMPLED	
21-Nov-10	NOT SAMPLED	22	
22-Nov-10	39	NOT SAMPLED	
23-Nov-10	NOT SAMPLED	18	
24-Nov-10	25	38	22
25-Nov-10	36	47	
26-Nov-10	26	36	
27-Nov-10	49	12	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
28-Nov-10	18	61	
29-Nov-10	56	32	
30-Nov-10	58	29	
1-Dec-10	18	37	20
2-Dec-10	42	20	
3-Dec-10	23	17	
4-Dec-10	23	16	
5-Dec-10	22	18	
6-Dec-10	13	19	
7-Dec-10	27	NOT SAMPLED	
8-Dec-10	NOT SAMPLED	17	
9-Dec-10	18	29	
10-Dec-10	12	35	
11-Dec-10	24	20	
12-Dec-10	55	115	
13-Dec-10	86	24	
14-Dec-10	68	1986	
15-Dec-10	649	1203	548
16-Dec-10	35	687	
17-Dec-10	76	NOT SAMPLED	
18-Dec-10	48	36	
19-Dec-10	26	31	
20-Dec-10	15	36	
21-Dec-10	28	NOT SAMPLED	
22-Dec-10	27	NOT SAMPLED	
23-Dec-10	15	14	
24-Dec-10	19	42	
25-Dec-10	37	47	
26-Dec-10	35	59	
27-Dec-10	26	35	
28-Dec-10	43	29	
29-Dec-10	53	64	
30-Dec-10	40	20	
31-Dec-10	34	28	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
8-Jun-10	16	20	10	12	
9-Jun-10	16	9	15	6	8
10-Jun-10	47	44	16	21	
11-Jun-10	33	816	16	5	
12-Jun-10	6	4	3	4	
13-Jun-10	10	6	10	2	
14-Jun-10	1	1	3	5	
15-Jun-10	4	6	11	2	
16-Jun-10	14	5	5	4	
17-Jun-10	11	12	7	6	
18-Jun-10	3	5	6	3	
19-Jun-10	1	2	4	2	
20-Jun-10	2	2	1	1	
21-Jun-10	6	5	5	<1	
22-Jun-10	5	4	4	3	
23-Jun-10	4	8	5	2	6
24-Jun-10	1	1	1	1	
25-Jun-10	3	2	6	1	
26-Jun-10	2	1	3	1	
27-Jun-10	1	2	2	4	
28-Jun-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
29-Jun-10	1	2	3	3	
30-Jun-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
1-Jul-10	2	4	2	<1	
2-Jul-10	2	1	<1	3	
3-Jul-10	5	2	3	1	
4-Jul-10	1	2	<1	2	
5-Jul-10	2	<1	1	<1	
6-Jul-10	3	1	9	<1	
7-Jul-10	1	1	3	2	2
8-Jul-10	4	4	1	<1	
9-Jul-10	3	1	3	<1	
10-Jul-10	1	2	3	<1	
11-Jul-10	1	2	1	1	
12-Jul-10	2	1	2	<1	
13-Jul-10	<1	2	4	1	
14-Jul-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
15-Jul-10	3	3	<1	1	
16-Jul-10	1	1	<1	<1	
17-Jul-10	<1	1	3	<1	
18-Jul-10	<1	<1	1	<1	
19-Jul-10	2	<1	1	<1	
20-Jul-10	5	9	1	<1	
21-Jul-10	1	<1	<1	<1	<1
22-Jul-10	1	<1	2	<1	
23-Jul-10	2	3	3	<1	
24-Jul-10	3	<1	1	<1	
25-Jul-10	<1	<1	<1	<1	
26-Jul-10	1	1	<1	<1	
27-Jul-10	<1	<1	3	4	
28-Jul-10	2	<1	<1	<1	1

Table 4: Bucklin Point Enterococci Data 2010

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
29-Jul-10	3	1	3	1	
30-Jul-10	12	3	4	1	
31-Jul-10	8	2	1	8	
1-Aug-10	3	3	2	1	
2-Aug-10	1	3	5	2	
3-Aug-10	3	2	1	8	
4-Aug-10	1	3	2	2	3
5-Aug-10	4	2	9	2	
6-Aug-10	3	4	1	4	
7-Aug-10	3	4	1	4	
8-Aug-10	2	1	3	4	
9-Aug-10	2	2	2	1	
10-Aug-10	3	1	3	1	
11-Aug-10	2	1	4	3	2
12-Aug-10	2	1	3	1	
13-Aug-10	1	2	2	4	
14-Aug-10	1	3	2	<1	
15-Aug-10	5	1	<1	1	
16-Aug-10	1	<1	1	1	
17-Aug-10	4	NOT SAMPLED	1	5	
18-Aug-10	4	1	2	65	50
19-Aug-10	6	2	6	3	
20-Aug-10	<1	1	<1	1	
21-Aug-10	<1	<1	2	3	
22-Aug-10	1	3	2	<1	
23-Aug-10	<1	1	<1	1	
24-Aug-10	2	1	<1	<1	
25-Aug-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Aug-10	1	1	<1	<1	
27-Aug-10	<1	2	3	2	
28-Aug-10	2	1	2	2	
29-Aug-10	2	1	1	<1	
30-Aug-10	2	1	<1	1	
31-Aug-10	2	1	2	4	
1-Sep-10	3	53	17	14	11
2-Sep-10	<1	NOT SAMPLED	3	1	
3-Sep-10	2	1	2	6	
4-Sep-10	5	4	2	<1	
5-Sep-10	1	6	3	2	
6-Sep-10	<1	1	1	<1	
7-Sep-10	<1	<1	<1	1	
8-Sep-10	<1	1	1	1	
9-Sep-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Sep-10	1	1	2	<1	
11-Sep-10	1	1	2	2	
12-Sep-10	2	<1	3	2	
13-Sep-10	3	1	1	1	
14-Sep-10	3	3	4	4	
15-Sep-10	3	11	2	8	
16-Sep-10	13	2		3	
17-Sep-10	8	6	2	8	

Table 4: Bucklin Point Enterococci Data 2010

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
18-Sep-10	1	1	1	<1	
19-Sep-10	2	<1	<1	1	
20-Sep-10	<1	2	<1	3	
21-Sep-10	<1	2	1	1	
22-Sep-10	<1	1	1	1	4
23-Sep-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Sep-10	1	8	3	5	
25-Sep-10	<1	1	<1	3	
26-Sep-10	<1	3	2	1	
27-Sep-10	2	1	2	3	
28-Sep-10	<1	1	<1	<1	
29-Sep-10	2	4	88	5	8
30-Sep-10	2	5	2	3	
1-Oct-10	<1	1	1	1	
2-Oct-10	1	1	1	16	
3-Oct-10	2	1	3	1	
4-Oct-10	1	3	2	2	
5-Oct-10	3	<1	1	82	
6-Oct-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Oct-10	1	3	<1	<1	1
8-Oct-10	2	<1	1	<1	
9-Oct-10	1	3	1	3	
10-Oct-10	<1	1	5	1	
11-Oct-10	1	1	1	<1	
12-Oct-10	1	<1	<1	5	
13-Oct-10	1	1	1	1	2
14-Oct-10	<1	1	1	6	
15-Oct-10	3	4	8	2	
16-Oct-10	1	<1	3	<1	
17-Oct-10	1	<1	1	<1	
18-Oct-10	1	<1	<1	1	
19-Oct-10	1	<1	1	1	
20-Oct-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Oct-10	3	34	68	13	
22-Oct-10	<1	<1	<1	1	
23-Oct-10	3	<1	1	2	
24-Oct-10	1	1	4	1	
25-Oct-10	1	1	<1	2	
26-Oct-10	1	1	<1	1	
27-Oct-10	<1	<1	<1	1	1
28-Oct-10	1	1	1	<1	
29-Oct-10	6	3	5	2	
30-Oct-10	5	1	<1	6	
31-Oct-10	2	3	<1	1	
1-Nov-10	2	1	2	1	
2-Nov-10	3	1	5	1	
3-Nov-10	3	3	2	4	4
4-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Nov-10	88	135	7	5	
6-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	

Table 4: Bucklin Point Enterococci Data 2010

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
8-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Nov-10	4	2	12	1	2
11-Nov-10	6	5	6	8	
12-Nov-10	13	3	4	27	
13-Nov-10	5	11	13	11	
14-Nov-10	4	13	11	4	
15-Nov-10	6	7	5	5	
16-Nov-10	6	13	3	1	
17-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Nov-10	10	2	12	4	
19-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
20-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
22-Nov-10	15	4	4	2	
23-Nov-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Nov-10	4	1	1	2	3
25-Nov-10	4	3	4	1	
26-Nov-10	2	1	3	1	
27-Nov-10	7	5	13	1	
28-Nov-10	5	<1	2	1	
29-Nov-10	4	2	2	<1	
30-Nov-10	4	3	5	5	
1-Dec-10	7	6	4	4	5
2-Dec-10	5	11	8	5	
3-Dec-10	1	2	2	<1	
4-Dec-10	2	2	4	5	
5-Dec-10	10	3	2	2	
6-Dec-10	1	3	3	<1	
7-Dec-10	<1	2	3	3	
8-Dec-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Dec-10	9	10	4	9	
10-Dec-10	1	21	5	16	
11-Dec-10	3	3	11	1	
12-Dec-10	8	5	2	<1	
13-Dec-10	25	10	4	1	
14-Dec-10	15	22	4	12	
15-Dec-10	2	4	1	<1	2
16-Dec-10	1	1	3	4	
17-Dec-10	<1	<1	<1	1	
18-Dec-10	6	6	3	3	
19-Dec-10	12	4	4	7	
20-Dec-10	<1	2	4	2	
21-Dec-10	2	5	4	5	
22-Dec-10	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-Dec-10	4	9	<1	3	
24-Dec-10	3	4	<1	<1	
25-Dec-10	2	3	2	3	
26-Dec-10	6	2	2	4	
27-Dec-10	8	3	2	8	
28-Dec-10	3	1	4	8	

Table 4: Bucklin Point Enterococci Data 2010

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
29-Dec-10	2	6	5	5	
30-Dec-10	10	1	1	2	
31-Dec-10	3	3	5	<1	

Table 4: Bucklin Point Enterococci Data 2010

Field's Point Influent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
1/5/2010	Tuesday	43.38	<2.5	15.4	31.7	<10	0.036	27.2	<4	160.0	9.6	331	1360	3.53	1.4	1.56
1/6/2010	Wednesday	41.54	3.5	11.7	37.5	<10	0.036	29.4	<4	130.0	8.5	270	1260			
1/12/2010	Tuesday	39.93	<2.5	<10	35.5	<10	0.040	22.8	<4	96.4	7.4	322	1360	4.13	1.57	1.29
1/13/2010	Wednesday	38.92	3.3	24.2	69.0	<10	0.072	23.7	<4	175.0	6.1	535	1830			
1/19/2010	Tuesday	66.54	<2.5	<10	35.0	12.9	0.024	17.3	<4	72.4	5.1	529	1520	3.05	1.36	2.01
1/20/2010	Wednesday	67.66	<2.5	<10	24.1	<10	0.018	17.0	<4	52.7	5.5	251	1080			
1/26/2010	Tuesday	72.45	<2.5	<10	28.9	<10	0.027	15.9	<4	62.3	76.3	324	1110	2.65	1.34	0.908
1/27/2010	Wednesday	71.23	<2.5	<10	27.0	<10	0.023	18.0	<4	54.2	7.8	552	955			
2/2/2010	Tuesday	42.30	<2.5	<10	49.5	<10	0.038	25.8	<4	72.6	9.7	516	1400	2.48	1.4	2.82
2/3/2010	Wednesday	46.40	<2.5	12.8	69.7	12.3	0.123	90.1	<4	248.0	22.7	954	2430			
2/9/2010	Tuesday	39.42	<2.5	<10	35.1	<10	0.034	56.0	<4	86.6	31.7	276	1200	4.21	1.57	0.984
2/10/2010	Wednesday	43.89	<2.5	12.2	48.6	<10	0.100	59.5	<4	146.0	9.6	242	1580			
2/16/2010	Tuesday	41.74	<2.5	<10	43.7	10.1	0.055	18.0	<4	99.9	13.3	582	1970	4.87	2.56	1.76
2/17/2010	Wednesday	37.55	<2.5	<10	37.9	<10	0.063	22.6	<4	86.4	25.1	342	1550			
2/23/2010	Tuesday	57.20	<2.5	<10	65.0	22.8	0.074	55.7	<4	132.0	10.4	904	2300	3.99	1.86	1.32
2/24/2010	Wednesday	98.44	<2.5	<10	32.2	28.3	0.037	16.7	<4	109.0	8.2	666	2810			
3/2/2010	Tuesday	72.40	<2.5	<10	20.9	<10	0.017	13.1	<4	46.9	4.9	209	1070	2.85	1.54	1.36
3/3/2010	Wednesday	61.01	<2.5	<10	25.6	<10	0.026	16.5	<4	59.8	11.1	251	1190			
3/9/2010	Tuesday	47.92	<2.5	<10	27.5	<10	0.033	18.1	<4	60.5	35.3	256	1210	3.98	1.73	1.96
3/10/2010	Wednesday	46.13	<2.5	<10	26.2	<10	0.027	17.8	<4	54.2	5.1	217	1160			
3/16/2010	Tuesday	73.34	<2.5	<10	19.6	<10	0.022	13.6	<4	72.1	9.9	218	992	2.15	1.51	3.37
3/17/2010	Wednesday	74.27	<2.5	<10	19.8	<10	0.017	14.5	<4	39.4	55.3	208	951			
3/23/2010	Tuesday	122.56	<2.5	17.3	27.6	16.6	0.039	10.9	<4	78.6	30.6	454	1190	<1.5	1.05	1.6
3/24/2010	Wednesday	76.22	<2.5	<10	22.4	<10	0.026	15.0	<4	52.1	49.7	202	949			
3/30/2010	Tuesday	147.81	<2.5	<10	25.3	24.1	0.079	13.7	<4	67.9	<4	862	1920	1.55	1.29	1.08
3/31/2010	Wednesday	132.31	<2.5	<10	15.6	<10	0.034	15.1	<4	45.5	5.9	224	952			
4/6/2010	Tuesday	96.84	<2.5	<10	19.8	<10	0.021	26.4	<4	53.5	6.3	280	1140	2.45	1.45	3.98
4/7/2010	Wednesday	85.62	<2.5	<10	25.9	<10	0.020	16.1	<4	52.9	6.8	229	1420			
4/13/2010	Tuesday	65.05	<2.5	<10	44.8	<10	0.040	27.1	<4	62.8	7.0	378	1380	2.93	1.6	1.48
4/14/2010	Wednesday	55.98	<2.5	<10	31.4	<10	0.029	32.7	<4	66.0	6.6	243	1290			
4/20/2010	Tuesday	49.67	<2.5	<10	30.7	<10	<0.2	28.6	<4	66.8	5.3	276	1370	1.99	1.42	2.4

Table 5: Field's Point Influent Metals and Cyanide

Field's Point Influent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
4/21/2010	Wednesday	51.72	<2.5	<10	34.6	<10	<0.2	18.0	<4	80.0	6.7	335	1520			
4/27/2010	Tuesday	50.82	<2.5	15.5	44.8	10.6	<0.2	24.0	<4	130.0	4.6	437	1650	2.34	1.63	1.34
4/28/2010	Wednesday	49.22	<2.5	<10	25.9	<10	<0.2	23.9	<4	62.8	8.1	310	1390			
5/4/2010	Tuesday	48.14	<2.5	12.5	33.6	<10	0.040	21.3	<4	67.9	7.0	300	1190	2.91	1.46	1.3
5/5/2010	Wednesday	45.58	<2.5	<10	25.9	<10	0.069	14.9	<4	51.8	11.5	246	1040			
5/11/2010	Tuesday	41.51	<2.5	<10	29.4	<10	0.026	25.3	<4	71.7	6.7	304	1350	3.65	1.66	1.62
5/12/2010	Wednesday	43.26	<2.5	<10	26.0	<10	0.035	15.4	<4	56.0	8.2	287	1130			
5/18/2010	Tuesday	55.22	<2.5	<10	37.0	16.4	0.064	15.9	<4	122.0	4.0	569	1560	4.54	1.61	1.21
5/19/2010	Wednesday	63.02	<2.5	<10	20.1	<10	0.101	10.9	<4	64.1	5.5	268	929			
5/25/2010	Tuesday	40.33	<2.5	<10	51.2	<10	0.070	18.2	<4	81.3	4.4	354	1470	5.05	1.91	2.91
5/26/2010	Wednesday	45.84	<2.5	<10	60.2	14.9	0.300	25.4	<4	94.9	<4	480	1620			
6/1/2010	Tuesday	49.35	<2.5	15.1	59.5	44.8	0.366	19.2	<4	138.0	5.3	683	2200	4.24	2.67	2.51
6/2/2010	Wednesday	41.74	<2.5	<10	36.2	17.9	0.276	12.7	<4	68.5	52.6	327	1260			
6/8/2010	Tuesday	38.85	<2.5	<10	45.0	14.7	0.152	17.3	<4	80.5	10.1	404	1560	4.04	1.94	1.36
6/9/2010	Wednesday	51.99	<2.5	<10	49.9	22.0	0.146	16.2	<4	82.9	18.1	426	1450			
6/15/2010	Tuesday	49.16	<2.5	<10	30.7	12.2	0.304	18.1	<4	94.3	5.9	405	1220	4	1.83	1.64
6/16/2010	Wednesday	39.30	<2.5	<10	26.1	<10	0.155	16.5	<4	60.2	42.0	187	970			
6/22/2010	Tuesday	44.49	<2.5	<10	70.6	28.0	0.224	16.8	<4	129.0	19.9	656	1880	3.4	1.87	2.82
6/23/2010	Wednesday	49.81	<2.5	12.5	58.4	30.6	0.278	15.0	<4	86.8	4.7	525	1510			
6/29/2010	Tuesday	42.76	<2.5	10.4	39.4	13.3	0.091	14.1	<4	89.2	4.5	316	1300	6.95	1.77	3.99
6/30/2010	Wednesday	33.18	<2.5	<10	71.0	29.7	0.218	20.9	<4	120.0	29.7	436	1860			
7/6/2010	Tuesday	41.62	<2.5	<10	31.4	18.9	0.064	10.1	<4	67.8	<4	309	1220	2.83	1.75	2.96
7/7/2010	Wednesday	37.66	<2.5	12.4	72.1	32.6	0.258	15.2	<4	107.0	8.7	792	1610			
7/13/2010	Tuesday	40.17	<2.5	<10	51.5	16.4	0.149	13.1	<4	91.2	120.9	387	1500	4.33	1.61	5.53
7/14/2010	Wednesday	55.59	<2.5	<10	46.3	27.4	0.175	21.5	<4	80.8	4.7	568	1700			
7/20/2010	Tuesday	44.49	<2.5	<10	29.8	11.3	0.051	14.0	<4	71.4	17.9	353	1390	5.91	1.68	2.2057
7/21/2010	Wednesday	42.31	<2.5	15.4	61.0	29.1	0.366	17.0	<4	107.0	10.8	433	1570			
7/27/2010	Tuesday	35.34	<2.5	<10	68.8	25.8	0.437	21.2	<4	117.0	4.7	423	1500	3.41	1.86	4.223
7/28/2010	Wednesday	36.08	<2.5	<10	63.9	23.6	0.366	20.0	<4	88.1	7.0	350	1200			
8/3/2010	Tuesday	34.24	<2.5	<10	44.4	11.0	0.077	18.7	<4	92.0	34.8	392	1320	4.31	1.64	5.12
8/4/2010	Wednesday	37.29	<2.5	<10	46.4	<10	0.076	15.9	<4	115.0	8.0	476	1450			

Table 5: Field's Point Influent Metals and Cyanide

Field's Point Influent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
8/10/2010	Tuesday	34.89	<2.5	<10	46.8	11.4	0.081	17.9	<4	118.0	4.3	452	1570	4.42	2	4.67
8/11/2010	Wednesday	34.76	<2.5	<10	52.3	12.8	0.059	16.5	<4	109.0	26.4	400	1470			
8/17/2010	Tuesday	33.43	<2.5	<10	45.6	23.3	0.182	32.6	<4	101.0	<4	490	1550	5.31	1.86	5.84
8/18/2010	Wednesday	30.82	<2.5	<10	41.1	<10	0.060	29.7	<4	98.3	5.5	520	1370			
8/25/2010	Wednesday	59.12	<2.5	<10	47.1	19.0	0.075	26.8	<4	95.7	<4	309	1120	3.27	1.57	5.5
8/26/2010	Thursday	39.67	<2.5	<10	37.6	17.7	0.164	20.0	<4	88.9	4.8	292	1200			
8/31/2010	Tuesday	33.43	<2.5	<10	33.6	11.3	0.078	10.6	<4	73.1	<4	318	1150	4.83	1.63	13.7
9/1/2010	Wednesday	33.86	<2.5	<10	49.3	11.0	0.054	16.0	<4	114.0	<4	390	1470			
9/7/2010	Tuesday	35.00	<2.5	14.1	40.4	14.2	0.164	15.6	<4	106.0	6.1	426	156	7.32	2.59	5.76
9/8/2010	Wednesday	34.68	<2.5	30.9	40.7	<10	0.075	22.6	<4	137.0	10.5	387	1370			
9/14/2010	Tuesday	34.89	<2.5	<10	54.7	<10	0.054	44.8	<4	198.0	5.9	384	1260	6.26	2.54	4.39
9/15/2010	Wednesday	32.05	<2.5	<10	41.0	<10	0.047	25.4	<4	113.0	<4	368	1370			
9/21/2010	Tuesday	29.49	<2.5	18.0	57.3	11.8	0.070	39.3	<4	137.0	5.3	422	1370	7.93	2.53	5.46
9/22/2010	Wednesday	35.50	<2.5	13.4	47.9	10.3	0.098	26.8	<4	121.0	<4	448	1410			
9/28/2010	Tuesday	48.52	<2.5	17.3	50.6	24.6	0.075	95.6	<4	144.0	<4	686	1760	7.62	2.35	4.1
9/29/2010	Wednesday	36.79	<2.5	<10	44.7	<10	0.058	30.4	<4	88.1	<4	380	1290			
10/5/2010	Tuesday	47.99	<2.5	<10	45.4	17.7	0.081	28.0	<4	107.0	5.2	578	1740	5.36	2.06	3.78
10/6/2010	Wednesday	63.27	<2.5	<10	32.6	21.3	0.122	14.5	<4	79.4	4.8	548	1390			
10/12/2010	Tuesday	32.76	<2.5	<10	30.1	<10	0.056	17.8	<4	71.2	12.4	351	1320	7.92	1.64	2.88
10/13/2010	Wednesday	34.91	<2.5	22.8	40.2	<10	0.057	21.1	<4	91.9	24.8	373	1470			
10/19/2010	Tuesday	34.84	<2.5	<10	37.1	<10	0.042	17.2	<4	70.3	5.9	329	1340	3.74	1.54	4.61
10/20/2010	Wednesday	35.58	<2.5	<10	34.9	<10	0.059	17.6	<4	83.0	187.5	361	1360			
10/26/2010	Tuesday	33.43	<2.5	10.5	29.6	<10	0.082	22.0	<4	70.8	12.2	276	976	4.05	1.48	32.2
10/27/2010	Wednesday	38.74	<2.5	<10	55.1	17.4	0.078	25.0	<4	120.0	4.1	616	1850			
11/2/2010	Tuesday	32.04	<2.5	<10	49.5	<10	0.000	21.4	<4	89.8	5.7	553	1480	4.22	1.97	2.44
11/3/2010	Wednesday	31.57	<2.5	<10	63.5	<10	0.061	19.3	<4	99.8	5.9	454	1490			
11/4/2010	Thursday	62.12					0.054									
11/9/2010	Tuesday	44.25	<2.5	<10	39.8	<10	0.029	20.2	<4	83.1	294.6	284	1180	4.77	1.93	2
11/10/2010	Wednesday	35.09	<2.5	<10	29.9	<10	0.030	12.9	<4	66.1	<4	249	1080			
11/16/2010	Tuesday	45.88	<2.5	14.1	34.0	<10	0.050	14.4	<4	78.4	10.8	350	1110	5.83	1.68	4.67
11/17/2010	Wednesday	55.17	<2.5	11.2	43.2	16.9	0.101	17.5	<4	96.8	5.4	702	1690			

Table 5: Field's Point Influent Metals and Cyanide

Field's Point Influent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
11/23/2010	Tuesday	35.01	<2.5	13.9	30.5	<10	0.039	17.3	<4	71.8	76.7	304	1240	3.8	1.81	4.05
11/24/2010	Wednesday	35.55	<2.5	14.7	32.3	<10	0.035	16.1	<4	79.6	6.2	335	1310			
11/30/2010	Tuesday	35.01	<2.5	<10	42.3	<10	0.051	23.0	<4	81.7	11.0	329	1260	5.17	2	3.59
12/1/2010	Wednesday	51.69	<2.5	<10	45.8	19.2	0.106	18.6	<4	108.0	5.3	1120	1830			
12/7/2010	Tuesday	35.86	<2.5	<10	28.6	<10	0.032	26.5	<4	80.7	38.1	353	1180	4.94	2.42	20
12/8/2010	Wednesday	33.87	<2.5	30.7	30.5	<10	0.037	23.5	<4	103.0	6.6	738	1280			
12/14/2010	Tuesday	67.85	<2.5	<10	26.3	<10	0.083	30.8	<4	60.2	7.0	271	1130	4.69	1.5	3.94
12/15/2010	Wednesday	62.32	<2.5	18.5	23.1	<10	0.023	16.8	<4	64.8	67.7	295	1020			
12/21/2010	Tuesday	40.20	<2.5	13.6	34.7	<10	0.038	21.1	<4	65.1	7.3	309	1180	6.06	2.34	3.5
12/22/2010	Wednesday	38.83	<2.5	14.1	40.7	<10	0.035	27.0	<4	81.9	10.3	287	1160			
12/28/2010	Tuesday	35.50	<2.5	<10	25.5	<10	0.038	<10	<4	72.6	<4	309	1220	2.64	2.08	3.75
12/29/2010	Wednesday	36.33	<2.5	<10	26.3	<10	0.077	16.5	<4	67.0	<4	286	1160			

Table 5: Field's Point Influent Metals and Cyanide

Field's Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
1/5/2010	Tuesday	43.38	0.26	3.70	11.60	1.43	0.008	22.80	0.09	39.80	<4	52.7	346.0	3.4	1.5	1.8
1/6/2010	Wednesday	41.54	0.31	1.69	10.70	0.88	0.004	19.80	0.09	36.70	<4	27.4	189.0			
1/12/2010	Tuesday	39.93	0.18	1.35	9.87	0.66	0.006	17.30	0.07	29.60	<4	49.8	199.0			
1/13/2010	Wednesday	38.92	0.21	2.22	12.70	1.02	0.007	22.00	0.39	35.30	<4	53.3	292.0			
1/19/2010	Tuesday	66.54	0.07	2.00	8.99	1.23	0.003	13.70	0.07	25.10	<4	27.1	150.0			
1/20/2010	Wednesday	67.66	0.08	1.23	10.00	1.00	0.002	14.40	0.14	26.00	<4	21.7	122.0			
1/26/2010	Tuesday	72.45	0.07	1.60	9.93	1.68	0.005	13.20	0.15	23.50	<4	52.5	305.0			
1/27/2010	Wednesday	71.23	0.09	1.37	10.40	1.79	0.005	16.00	0.18	23.50	<4	65.5	323.0			
2/2/2010	Tuesday	42.30	0.12	1.68	15.70	0.94	0.005	21.40	0.10	27.10	<4	35.8	299.0	1.9	1.4	1.9
2/3/2010	Wednesday	46.40	0.10	1.51	12.00	0.71	0.004	40.20	0.06	22.20	<4	23.9	306.0			
2/9/2010	Tuesday	39.42	0.18	0.90	14.30	0.79	0.008	41.70	0.26	27.60	<4	25.3	272.0			
2/10/2010	Wednesday	43.89	0.26	1.72	17.70	1.09	0.010	33.30	0.13	32.10	<4	28.4	334.0			
2/16/2010	Tuesday	41.74	0.16	1.85	17.40	1.19	0.016	21.00	0.23	29.30	<4	41.7	377.0			
2/17/2010	Wednesday	37.55	0.17	1.31	16.80	1.08	0.009	23.20	0.29	35.10	<4	36.8	305.0			
2/23/2010	Tuesday	57.20	0.19	1.58	11.80	2.77	0.015	23.20	0.21	28.70	<4	77.5	318.0			
2/24/2010	Wednesday	72.20	0.20	1.67	10.70	3.22	0.017	11.80	0.13	33.30	<4	84.3	306.0			
3/2/2010	Tuesday	72.40	0.07	1.28	7.93	0.99	0.003	11.90	0.07	21.40	<4	29.8	292.0	3.0	1.6	1.6
3/3/2010	Wednesday	61.01	0.07	1.40	8.33	1.19	0.006	14.30	0.07	25.20	<4	31.3	282.0			
3/9/2010	Tuesday	47.92	0.09	1.50	9.67	0.99	0.007	18.30	0.12	22.40	<4	33.0	340.0			
3/10/2010	Wednesday	46.13	0.09	1.25	10.90	0.82	0.011	17.30	0.11	22.60	<4	30.0	326.0			
3/16/2010	Tuesday	73.34	0.11	0.93	10.90	1.17	0.009	12.70	0.11	27.60	<4	37.8	278.0			
3/17/2010	Wednesday	74.27	0.11	0.84	9.43	0.98	0.007	14.20	0.12	28.10	<4	33.2	258.0			
3/23/2010	Tuesday	74.29	0.05	0.75	5.34	0.87	0.008	8.88	0.16	20.90	6.42	30.1	133.0			
3/24/2010	Wednesday	75.62	0.06	0.83	5.53	0.87	0.008	12.80	0.15	22.80	13.39	35.2	179.0			
3/30/2010	Tuesday	74.86	0.04	11.40	5.22	1.04	0.005	13.30	0.06	18.80	<4	37.0	136.0			
3/31/2010	Wednesday	75.18	0.05	0.90	5.43	0.97	0.005	14.70	0.08	20.40	4.20	33.8	113.0			
4/6/2010	Tuesday	74.49	0.05	1.27	<10	0.66	0.005	17.40	0.06	16.00	<4	28.7	159.0	2.1	1.5	3.5
4/7/2010	Wednesday	70.54	0.05	1.26	<10	0.68	0.006	15.20	0.33	15.70	<4	28.6	180.0			
4/13/2010	Tuesday	65.05	0.05	1.18	<10	0.68	0.005	17.60	0.11	10.90	<4	28.8	170.0			
4/14/2010	Wednesday	55.98	0.14	1.73	<10	1.48	0.004	21.80	0.08	14.80	<4	30.1	186.0			
4/20/2010	Tuesday	49.67	0.06	1.31	10.50	1.20	<0.2	21.00	0.16	16.40	<4	55.6	321.0			
4/21/2010	Wednesday	51.72	0.06	1.09	<10	1.16	<0.2	15.90	0.17	14.60	<4	43.8	275.0			

Table 6: Field's Point Effluent Metals and Cyanide

Field's Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
4/27/2010	Tuesday	50.82	0.05	1.12	10.80	1.61	<0.2	14.70	0.11	18.10	<4	47.4	258.0			
4/28/2010	Wednesday	49.22	0.06	1.23	10.00	1.34	<0.2	18.70	0.13	18.50	<4	45.3	261.0			
5/4/2010	Tuesday	48.14	0.13	3.09	14.60	2.10	0.011	19.80	0.21	26.20	<4	83.7	451.0	2.4	1.5	3.3
5/5/2010	Wednesday	45.58	0.35	1.78	10.60	1.78	0.011	13.90	0.12	18.60	<4	63.9	341.0			
5/11/2010	Tuesday	41.51	0.12	1.22	11.20	1.33	0.008	15.20	0.09	22.80	6.08	45.2	243.0			
5/12/2010	Wednesday	43.26	0.08	1.64	11.30	1.15	0.007	13.70	0.09	23.00	<4	37.8	199.0			
5/18/2010	Tuesday	55.22	0.13	1.99	12.90	1.71	0.009	17.40	0.15	31.70	<4	74.8	417.0			
5/19/2010	Wednesday	63.02	0.09	1.58	10.60	1.35	0.007	14.30	0.14	25.90	<4	51.4	275.0			
5/25/2010	Tuesday	40.33	0.06	1.04	10.70	0.67	0.006	11.90	0.09	22.20	<4	25.3	156.0			
5/26/2010	Wednesday	45.84	0.06	1.80	11.10	0.72	0.004	15.40	0.13	21.40	<4	27.4	145.0			
6/1/2010	Tuesday	49.35	0.12	1.66	12.30	2.50	0.011	13.30	0.15	25.30	<4	49.5	315.0			
6/2/2010	Wednesday	41.74	0.09	0.70	11.90	1.00	0.005	14.40	0.07	22.80	<4	21.5	139.0			
6/8/2010	Tuesday	38.85	0.10	1.40	13.40	1.52	0.018	15.00	0.12	24.00	<4	35.2	211.0	4.3	1.8	3.7
6/9/2010	Wednesday	51.99	0.11	1.08	12.80	2.47	0.018	13.60	0.20	27.30	<4	66.2	330.0			
6/15/2010	Tuesday	49.16	0.12	1.10	8.92	1.23	0.016	12.00	0.14	25.60	<4	40.0	203.0			
6/16/2010	Wednesday	39.30	0.18	1.34	11.80	1.97	0.025	16.60	0.11	28.50	<4	54.8	342.0			
6/22/2010	Tuesday	44.49	0.05	1.41	8.97	1.81	0.026	11.70	0.09	47.50	<4	77.8	462.0			
6/23/2010	Wednesday	49.81	0.28	3.69	24.70	5.56	0.011	27.70	0.35	29.30	<4	46.2	188.0			
6/29/2010	Tuesday	42.76	0.05	0.93	7.81	0.72	0.005	11.80	0.12	20.40	<4	20.6	109.0			
6/30/2010	Wednesday	33.18	0.07	0.86	8.27	0.85	0.010	13.00	0.10	21.40	<4	<20	150.0			
7/6/2010	Tuesday	41.62	<0.04	2.48	8.56	1.70	0.008	9.37	0.14	34.10	<4	35.5	279.0			
7/7/2010	Wednesday	37.66	<0.04	2.45	8.31	1.74	0.013	10.30	0.11	20.20	<4	52.2	382.0			
7/13/2010	Tuesday	40.17	0.06	1.38	9.41	1.93	0.010	13.30	0.15	43.30	<4	33.1	320.0	4.0	1.6	
7/14/2010	Wednesday	55.59	0.07	1.33	9.01	2.89	0.015	9.09	0.19	21.00	<4	47.6	368.0			
7/20/2010	Tuesday	44.49	0.04	1.11	8.31	1.36	0.010	13.30	0.07	28.60	<4	30.0	218.0			
7/21/2010	Wednesday	42.31	0.12	1.38	9.87	2.15	0.009	14.40	0.08	50.50	<4	43.5	504.0			
7/27/2010	Tuesday	35.34	0.18	0.85	9.39	1.10	0.013	18.40	0.07	37.20	<4	30.2	170.0			
7/28/2010	Wednesday	36.08	0.13	1.41	10.60	1.16	0.013	21.20	0.07	30.00	<4	30.5	204.0			
8/3/2010	Tuesday	34.24	0.14	0.91	9.95	1.22	0.005	17.40	0.10	31.10	<4	23.4	1430.0	3.9	1.6	
8/4/2010	Wednesday	37.29	0.13	1.41	11.40	1.02	0.005	16.20	0.12	61.60	7.40	84.9	246.0			
8/10/2010	Tuesday	34.89	0.08	1.66	11.50	1.04	0.008	13.80	0.24	24.50	<4	29.6	239.0			
8/11/2010	Wednesday	34.76	0.08	0.94	13.20	0.96	0.007	15.60	0.24	19.80	<4	22.1	245.0			

Table 6: Field's Point Effluent Metals and Cyanide

Field's Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
8/17/2010	Tuesday	33.43	0.13	0.85	8.61	1.20	0.006	17.90	0.12	110.00	<4	302.0	1730.0			
8/18/2010	Wednesday	30.82	0.21	1.55	10.20	1.28	0.008	22.80	0.25	39.40	<4	54.5	349.0			
8/25/2010	Wednesday	59.12	0.26	1.05	9.10	1.45	0.007	16.40	0.15	24.80	<4	33.5	216.0			
8/26/2010	Thursday	39.67	0.26	1.89	9.29	1.15	0.006	16.90	0.14	25.00	<4	31.6	207.0			
8/31/2010	Tuesday	33.43	0.12	0.88	8.46	0.86	0.005	14.10	0.16	23.90	<4	27.4	75.8			
9/1/2010	Wednesday	33.86	0.13	0.86	8.81	0.79	0.007	14.10	0.09	18.30	<4	22.1	262.0			
9/7/2010	Tuesday	35.00	0.14	3.42	10.30	0.87	0.004	11.80	0.06	18.90	<4	27.2	316.0			
9/8/2010	Wednesday	34.68	0.22	1.77	12.20	1.12	0.005	16.80	0.10	33.40	<4	74.3	364.0			
9/14/2010	Tuesday	34.89	0.28	1.90	10.40	0.88	0.006	30.10	0.13	27.30	<4	31.8	410.0	6.6	2.6	
9/15/2010	Wednesday	32.05	0.27	2.18	9.99	0.77	0.004	29.70	0.15	29.20	<4	22.3	322.0			
9/21/2010	Tuesday	29.49	0.26	2.13	10.60	0.96	0.007	25.20	0.13	24.30	<4	32.8	377.0			
9/22/2010	Wednesday	35.50	0.27	1.95	10.20	0.78	0.007	22.50	0.13	25.70	<4	29.5	366.0			
9/28/2010	Tuesday	48.52	0.24	1.98	10.80	1.68	0.008	77.80	0.22	28.20	<4	56.9	561.0			
9/29/2010	Wednesday	36.79	0.18	1.67	11.50	1.35	0.008	42.90	0.19	26.30	<4	46.9	480.0			
10/5/2010	Tuesday	47.99	0.14	2.26	12.20	2.74	0.018	16.20	0.34	27.90	<4	117.0	745.0	4.6	1.7	
10/6/2010	Wednesday	63.27	0.10	1.76	7.43	1.33	0.006	14.60	0.12	21.00	<4	40.3	332.0			
10/12/2010	Tuesday	32.76	3.39	11.50	15.30	4.35	0.006	20.80	1.75	24.40	<4	48.3	410.0			
10/13/2010	Wednesday	34.91	0.09	8.07	9.22	1.01	0.009	11.80	0.33	26.70	<4	40.2	484.0			
10/19/2010	Tuesday	34.84	0.10	2.33	9.39	1.00	0.007	16.80	0.17	22.50	<4	38.0	414.0			
10/20/2010	Wednesday	35.58	0.12	1.76	9.14	0.96	0.006	18.00	0.28	24.30	<4	43.3	476.0			
10/26/2010	Tuesday	33.43	0.11	1.39	8.16	0.93	0.006	18.30	0.17	20.80	6.30	36.8	352.0			
10/27/2010	Wednesday	38.74	0.06	1.93	8.31	1.08	0.007	21.40	0.18	20.00	<4	41.1	559.0			
11/2/2010	Tuesday	32.04	0.15	2.37	16.60	1.02		17.50	0.23	36.60	<4	55.4	465.0			
11/3/2010	Wednesday	31.57	0.20	2.19	20.10	1.18	0.013	16.80	0.27	36.70	<4	60.7	480.0			
11/4/2010	Thursday	62.12					0.011									
11/9/2010	Tuesday	44.25	0.15	1.58	11.90	1.32	0.008	18.00	0.30	36.70	<4	50.9	403.0			
11/10/2010	Wednesday	35.09	0.17	1.90	9.89	1.02	0.006	15.50	0.18	30.40	<4	37.4	327.0			
11/16/2010	Tuesday	45.88	0.14	2.84	13.60	1.51	0.010	14.00	0.35	29.00	<4	55.3	385.0	5.6	1.4	
11/17/2010	Wednesday	55.17	0.12	1.76	10.90	1.72	0.007	13.70	0.27	31.00	<4	62.9	423.0			
11/23/2010	Tuesday	35.01	0.14	3.38	12.00	1.14	0.007	17.20	0.21	28.90	<4	46.8	376.0			
11/24/2010	Wednesday	35.55	0.15	3.87	13.00	1.19	0.008	15.60	0.21	27.10	<4	51.8	407.0			
11/30/2010	Tuesday	35.01	0.17	2.29	11.90	1.07	0.007	20.20	0.19	26.00	<4	36.1	355.0			

Table 6: Field's Point Effluent Metals and Cyanide

Field's Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo
12/1/2010	Wednesday	51.69	0.13	2.20	8.73	1.29	0.007	15.60	0.16	25.70	<4	44.5	335.0			
12/7/2010	Tuesday	35.86	0.12	2.00	12.40	1.08	0.008	22.50	0.20	31.20	<4	38.6	327.0	5.3	1.9	
12/8/2010	Wednesday	33.87	0.14	2.46	10.30	0.76	0.005	22.60	0.14	41.90	<4	38.6	381.0			
12/14/2010	Tuesday	67.85	0.08	2.08	8.73	1.26	0.007	25.00	0.12	31.40	<4	43.7	292.0			
12/15/2010	Wednesday	62.32	0.09	2.52	9.21	1.34	0.006	18.30	0.13	34.30	<4	50.8	304.0			
12/21/2010	Tuesday	40.20	0.21	2.76	14.30	0.79	0.005	21.80	0.11	36.40	6.35	31.5	292.0			
12/22/2010	Wednesday	38.83	0.33	2.48	13.60	1.24	0.006	24.90	0.18	38.80	<4	51.3	336.0			
12/28/2010	Tuesday	35.50	0.17	1.95	12.10	1.12	0.009	11.50	0.14	29.00	<4	51.0	443.0			
12/29/2010	Wednesday	36.33	0.14	3.35	11.50	1.08	0.010	18.90	0.18	34.80	<4	55.8	432.0			

Table 6: Field's Point Effluent Metals and Cyanide

Bucklin Point Influent Metals 2010

all analysis in ppb unless otherwise noted

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
1/5/2010	Tuesday	21.19	<2.5	21	37	149	<10	0.0481	14.8	<4.0	113	4.35	440	1070	<1.5	1.1	0.766	<1.5
1/6/2010	Wednesday	19.98	<2.5	<10	36	60.9	<10	0.042	13.6	<4.0	106	4.28	425	1010				
1/12/2010	Tuesday	18.78	<2.5	16.3	49	60.6	<10	0.0709	27.7	<4.0	128	<4.0	580	1650	<1.5	1.14	0.491	<1.5
1/13/2010	Wednesday	18.49										<4.0						
1/14/2010	Thursday	18.30	<2.5	33.5	29	72.6	<10	0.0492	25	<4.0	119		506	1170				
1/19/2010	Tuesday	25.91	<2.5	<10	39	55.7	<10	0.0329	43.8	<4.0	113	<4.0	645	1350	<1.5	1.39	1.21	<1.5
1/20/2010	Wednesday	21.03	<2.5	<10	26	48.5	10	0.0347	18.1	<4.0	105	<4.0	1700	1770				
1/26/2010	Tuesday	24.58	<2.5	25.2	16	42	13.1	0.0629	16.3	<4.0	98.5	5.03	844	1670	<1.5	1.31	0.79	<1.5
1/27/2010	Wednesday	22.56	<2.5	80.8	73	37.3	<10	0.0276	11.8	<4.0	74	4.39	336	860				
2/2/2010	Tuesday	21.12	<2.5	<10	21	50.1	<10	0.0599	11.7	<4.0	110	4.06	463	1090	<1.5	1.36	0.951	<1.5
2/3/2010	Wednesday	20.61	<2.5	<10	22	56.2	<10	0.044	13.1	<4.0	136	<4.0	438	1100				
2/9/2010	Tuesday	17.95	<2.5	<10	34	49.8	<10	0.066	13.9	<4.0	112	4.24	475	952	<1.5	1.44	1	<1.5
2/10/2010	Wednesday	20.44	<2.5	<10	37	49.9	<10	0.0552	16.5	<4.0	113	4.64	428	1020				
2/16/2010	Tuesday	19.44	<2.5	<10	36	68.4	<10	0.0743	23.1	<4.0	194	4.44	903	1430	<1.5	1.65	0.704	<1.5
2/17/2010	Wednesday	18.48	<2.5	14.3	34	60.7	<10	0.052	<10	<4.0	150	4.87	644	1490				
2/23/2010	Tuesday	24.99	<2.5	<10	36	60.9	<10	0.0587	11.1	<4.0	139	4.13	816	1280	<1.5	1.41	3.07	<1.5
2/24/2010	Wednesday	79.55	<2.5	13.1	42	54.1	20.4	0.0729	<10	<4.0	132	4.75	1190	2190				
3/2/2010	Tuesday	26.00	<2.5	<10	25	37	<10	0.053	11.5	<4.0	86.1	<4.0	323	878	<1.5	1.17	3.27	<1.5
3/3/2010	Wednesday	28.08	<2.5	<10	24	33.7	<10	0.0718	<10	<4.0	82.5	<4.0	341	984				
3/9/2010	Tuesday	21.66	<2.5	12.7	28	62	<10	0.0448	16.1	<4.0	104	4.46	326	907	<1.5	1.43	2.02	<1.5
3/10/2010	Wednesday	21.25	<2.5	14.5	26	51.2	<10	0.0629	<10	<4.0	108	4.64	390	1030				
3/16/2010	Tuesday	50.69	<2.5	<10	<12	26.7	<10	0.0333	<10	<4.0	53.9	<4.0	299	767	<1.5	1.21	1.03	<1.5
3/17/2010	Wednesday	37.23										<4.0						
3/18/2010	Thursday	31.69	<2.5	12.5	17	42.2	<10	0.161	<10	<4.0	98.8		284	867				
3/23/2010	Tuesday	77.71	<2.5	40.6	<12	57.6	17.8	0.0587	16.6	<4.0	104	20.49	1060	1760	<1.5	1.12	2.35	<1.5
3/24/2010	Wednesday	43.31	<2.5	54.1	16	39.6	11.2	0.0292	13.9	<4.0	64.4		396	950				
3/25/2010	Thursday	36.56										<4.0						
3/30/2010	Tuesday	112.83	<2.5	<10	<12	24.3	11.7	0.0252	<10	<4.0	49.5	<4.0	503	910	<1.5	0.867	1.12	<1.5
3/31/2010	Wednesday	93.67	<2.5	<10	22	21.6	<10	0.104	<10	<4.0	45.3	<4.0	429	867				
4/6/2010	Tuesday	41.05	<2.5	<10	<12	33.1	<10	0.0263	<10	<4.0	60.6	<4.0	256	718	<1.5	1.12	0.819	<1.5

Table 7: Bucklin Point Influent Metals and Cyanide

Bucklin Point Influent Metals 2010

all analysis in ppb unless otherwise noted

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
4/7/2010	Wednesday	38.62	<2.5	<10	13	32.5	<10	0.0248	<10	<4.0	61.7	4.33	270	792				
4/13/2010	Tuesday	31.03	<2.5	<10	13	37.6	<10	0.0495	<10	<4.0	67	4.13	270	900	<1.5	1.23	0.807	<1.5
4/14/2010	Wednesday	29.21	<2.5	<10.0	20	46.3	<10	0.05	<10	<4.0	86.2	4.93	289	950				
4/20/2010	Tuesday	25.75	<2.5	<10	30	50.3	<10	<0.2	12.9	<4.0	110	4.23	336	1050	<1.5	1.31	0.88	<1.5
4/21/2010	Wednesday	25.81	<2.5	17.8	30	47.9	<10	<0.2	<10	<4.0	93.4	<4.0	323	942				
4/27/2010	Tuesday	29.70	<2.5	<10	30	57.7	<10	<0.2	<10	<4.0	90.5	<4.0	471	1210	<1.5	1.18	0.971	<1.5
4/28/2010	Wednesday	24.71	<2.5	20.3	30	99.1	13.2	<0.2	17.4	<4.0	186	4.1	930	3780				
5/4/2010	Tuesday	22.17	<2.5	32.5	20	44	<10	0.0363	11.2	<4.0	64.4	15.99	278	772	<1.5	1.24	0.879	<1.5
5/5/2010	Wednesday	20.90	<2.5	<10	30	51.9	<10	0.0441	10	<4.0	88.2	<4.0	362	1030				
5/11/2010	Tuesday	20.45	<2.5	12.2	30	46.2	<10	0.0604	<10	<4.0	76.6	4.3	322	894	<1.5	1.28	0.659	<1.5
5/12/2010	Wednesday	21.79	<2.5	16.7	30	42.6	<10	0.0726	<10	<4.0	89.1	<4.0	343	992				
5/18/2010	Tuesday	33.02	<2.5	39.8	38	40.4	<10	0.0402	<10	<4.0	112	<4.0	327	1010	<1.5	1.27	0.858	<1.5
5/19/2010	Wednesday	27.80	<2.5	52.1	24	48.3	<10	0.0817	15.5	<4.0	105	<4.0	443	982				
5/25/2010	Tuesday	18.55	<2.5	<10	37	62.9	<10	0.0613	<10	<4.0	103	4.12	447	1690	<1.5	2.09	2.03	<1.5
5/26/2010	Wednesday	17.39	<2.5	<10	32	64.9	<10	0.076	14.3	<4.0	99.3	<4.0	407	1130				
6/1/2010	Tuesday	23.34	<2.5	<10	38	36.7	<10	0.0345	<10	<4.0	71.8	<4.0	344	943	<1.5	1.21	0.779	<1.5
6/2/2010	Wednesday	17.48	<2.5	27.8	31	55.1	13.4	0.0643	14.4	<4.0	93.7	<4.0	595	1300				
6/8/2010	Tuesday	16.81	<2.5	<10	46	53	<10	0.101	11.8	<4.0	91.5	5.56	402	1200	<1.5	1.3	0.476	<1.5
6/9/2010	Wednesday	27.05	<2.5	<10	35	57.9	<10	0.0895	10.6	<4.0	88.5	4.3	361	1080				
6/15/2010	Tuesday	17.45	<2.5	<10	48	64.6	<10	0.0978	11.3	<4.0	109	<4.0	410	1050	<1.5	1.55	0.854	<1.5
6/16/2010	Wednesday	17.85	<2.5	<10	30	46.4	<10	0.0522	<10	<4.0	83.2	4.01	308	948				
6/22/2010	Tuesday	17.01	<2.5	<10	29	56.3	11.4	0.0549	<10	<4.0	100	5.2	520	1380	<1.5	1.73	1.44	<1.5
6/23/2010	Wednesday	24.80	<2.5	27.4	44	49.7	10.7	0.166	14.1	<4.0	91.6	<4.0	645	1210				
6/29/2010	Tuesday	15.82	<2.5	<10	50	39.5	<10	0.0651	<10	<4.0	88.6	<4.0	339	1100	<1.5	1.87	0.829	<1.5
6/30/2010	Wednesday	15.74	<2.5	<10	66	63.3	<10	0.0863	<10	<4.0	116	<4.0	473	1140				
7/6/2010	Tuesday	14.63	<2.5	<10	70	59.9	10.3	0.0698	<10	<4.0	127	<4.0	589	1730	<1.5	1.78	1.04	<1.5
7/7/2010	Wednesday	14.96	<2.5	<10	71	76	<10	0.0699	15.7	<4.0	128	<4.0	534	1200				
7/13/2010	Tuesday	17.22	<2.5	<10	72	59.3	<10	0.0793	12.7	<4.0	116	<4.0	450	1010	<1.5	1.69	7.38	<1.5
7/14/2010	Wednesday	36.05	<2.5	<10	54	76.6	<10	0.132	11.3	<4.0	129	4.22	536	1080				
7/20/2010	Tuesday	16.99	<2.5	<10	58	54.3	10.5	0.0688	21	<4.0	109	<4.0	539	1230	<1.5	1.64	2.02	<1.5

Table 7: Bucklin Point Influent Metals and Cyanide

Bucklin Point Influent Metals 2010

all analysis in ppb unless otherwise noted

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
7/21/2010	Wednesday	18.31	<2.5	<10	84	55.8	<10	0.0727	<10	<4.0	103	<4.0	482	1010				
7/27/2010	Tuesday	14.72	<2.5	<10	47	42.5	<10	0.0562	12	<4.0	93.5	4.06	330	872	<1.5	1.68	1.49	<1.5
7/28/2010	Wednesday	16.60	<2.5	<10	76	75.1	<10	0.118	14.1	<4.0	128	4.82	520	1300				
8/3/2010	Tuesday	15.78	<2.5	<10	60	71.3	<10	0.0948	24.2	<4.0	138	8	509	1240	<1.5	1.9	8.59	<1.5
8/4/2010	Wednesday	15.76	<2.5	<10	50	71.1	10.2	0.0707	11.8	<4.0	135	<4.0	515	1460				
8/10/2010	Tuesday	15.53	<2.5	<10	59	69.5	11.2	0.101	<10	<4.0	143	<4.0	710	1560	<1.5	2.98	3.77	<1.5
8/11/2010	Wednesday	14.09	<2.5	<10	49	93.2	13	0.126	12.7	<4.0	170	<4.0	605	1830				
8/17/2010	Tuesday	14.86	<2.5	<10	50	68.1	<10	0.0855	12.1	<4.0	122	<4.0	505	1260	<1.5	1.79	5.51	<1.5
8/18/2010	Wednesday	14.46	<2.5	13.8	65	66.1	<10	0.096	11.8	<4.0	133	<4.0	524	1350				
8/24/2010	Tuesday	22.58	<2.5	<10	39	57.8	<10	0.0561	12.6	<4.0	95	<4.0	359	1150	<1.5	1.56	2.05	<1.5
8/25/2010	Wednesday	29.77	<2.5	<10	16	40.5	<10	0.107	<10	<4.0	75.3	<4.0	288	881				
8/31/2010	Tuesday	14.09	<2.5	<10	40	58	<10	0.0675	18.3	<4.0	139	<4.0	484	1190	<1.5	2.06	2.08	<1.5
9/1/2010	Wednesday	13.82	<2.5	<10	47	77.1	<10	0.102	18.4	<4.0	159	<4.0	628	1460				
9/7/2010	Tuesday	15.20	<2.5	<10	49	35.7	<10	0.029	<10	<4.0	61.7	<4.0	257	854	<1.5	1.79	2.26	<1.5
9/8/2010	Wednesday	15.67	<2.5	<10	49	80.8	<10	0.0632	<10	<4.0	113	<4.0	449	1180				
9/14/2010	Tuesday	14.41	<2.5	<10	63	68.5	<10	0.0625	12.7	<4.0	104	<4.0	420	120	<1.5	1.83	3.04	<1.5
9/15/2010	Wednesday	13.92	<2.5	<10	55	75.3	<10	0.0747	44.8	<4.0	129	<4.0	620	1410				
9/21/2010	Tuesday	13.48	<2.5	<10	66	80.4	<10	0.0789	11.3	<4.0	135	4.21	501	1160	<1.5	2.03	3.11	<1.5
9/22/2010	Wednesday	14.01	<2.5	<10	54	94	<10	0.0653	13.4	<4.0	158	<4.0	614	1390				
9/28/2010	Tuesday	25.26	<2.5	<10	56	53.3	<10	0.06	18.6	<4.0	103	<4.0	470	1160	<1.5	2.01	7.72	<1.5
9/29/2010	Wednesday	14.52	<2.5	13.1	44	51.4	15.7	0.0675	17.9	<4.0	112	<4.0	660	1430				
10/5/2010	Tuesday	20.61	<2.5	<10	33	55.6	<10	0.0618	12.7	<4.0	88.5	<4.0	437	1160	<1.5	1.56	3.5	<1.5
10/6/2010	Wednesday	46.47	<2.5	<10	29	68.3	10.8	0.0652	14.1	<4.0	103	<4.0	538	1160				
10/12/2010	Tuesday	15.16	<2.5	<10	41	47.7	<10	0.0497	<10	<4.0	107	<4.0	536	1210	<1.5	1.59	1.78	<1.5
10/13/2010	Wednesday	14.29	<2.5	<10	42	67.2	<10	0.0674	18	<4.0	123	<4.0	582	1480				
10/19/2010	Tuesday	15.53	<2.5	<10	29	60.9	<10	0.0612	<10	<4.0	105	<4.0	484	1310	<1.5	1.64	1.72	1.6
10/20/2010	Wednesday	15.98	<2.5	<10	34	74.6	<10	0.147	<10	<4.0	116	<4.0	497	1210				
10/26/2010	Tuesday	15.53	<2.5	<10	35	81.8	<10	0.122	15.8	<4.0	195	12.29	606	1400	<1.5	1.69	2.05	<1.5
10/27/2010	Wednesday	18.90	<2.5	<10	55	68.2	10.8	0.0968	13.7	<4.0	133	5.08	617	1430				
11/2/2010	Tuesday	14.96	<2.5	<10	40	101	<10	0.0901	57.8	5.8	168	<4.0	669	1640	<1.5	1.87	2.12	<1.5

Table 7: Bucklin Point Influent Metals and Cyanide

Bucklin Point Influent Metals 2010

all analysis in ppb unless otherwise noted

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
11/3/2010	Wednesday	15.08	<2.5	<10	51	59.2	<10	0.0692	16	<4.0	126	<4.0	839	1390				
11/7/2010	Sunday				54							<4.0						
11/8/2010	Monday				46							<4.0						
11/9/2010	Tuesday	23.66	<2.5	<10	65	44.5	<10	0.061	<10	<4.0	71.7		387	977	<1.5	1.47	1.92	<1.5
11/10/2010	Wednesday	17.37	<2.5	<10	49	48.6	<10	0.182	13.1	<4.0	85.8	<4.0	367	1010				
11/16/2010													613	1240	<1.5	1.79	3.2	<1.5
11/17/2010	Wednesday	39.96	<2.5	10.9	45	64.6	<10	0.0692	12.7	<4.0	122	<4.0	613	1070				
11/18/2010	Thursday	17.05	<2.5	20.2	42	54.1	11	0.0665	17.4	<4.0	100							
11/22/2010	Monday	16.80											477	1200	<1.5			
11/23/2010	Tuesday	16.59	<2.5	<10	53	46.4	<10	0.0575	<10	<4.0	93.6	4.03	592	1180		1.74	43.9	<1.5
11/24/2010	Wednesday	16.10	<2.5	<10	44	59.4	<10	0.0658	11.4	<4.0	114	<4.0						
11/30/2010	Tuesday	15.90	<2.5	<10	60	61.7	<10	0.0519	14	<4.0	110	<4.0	487	1130	<1.5	1.98	4.04	<1.5
12/1/2010	Wednesday	32.31	<2.5	<10	59	49.6	<10	0.0927	15.8	<4.0	114	<4.0	455	3390				
12/7/2010	Tuesday	15.53	<2.5	16.6	56	46.2	<10	0.0522	12.2	<4.0	96.2	<4.0	594	1110	<1.5	1.88	2.74	<1.5
12/8/2010	Wednesday	15.14	<2.5	<10	47	49.3	<10	0.0518	18.1	<4.0	106	<4.0	588	1200				
12/14/2010	Tuesday	20.88	<2.5	<10	38	55.5	<10	0.039	21.8	<4.0	86.3	<4.0	412	1390	<1.5	1.96	4.97	<1.5
12/15/2010	Wednesday	20.19	<2.5	<10	36	47.2	<10	0.0431	11.4	<4.0	84.3	<4.0	385	1250				
12/21/2010	Tuesday	18.32	<2.5	<10	43	43.6	<10	0.0461	17.7	<4.0	74.3	<4.0	652	1000	<1.5	1.6	2.14	<1.5
12/22/2010	Wednesday	18.08	<2.5	<10	55	31	<10	0.029	13.7	<4.0	55	<4.0	323	757				
12/28/2010	Tuesday	16.42	<2.5	<10	68	36.4	<10	0.0644	<10	<4.0	85.5	<4.0	398	908	<1.5	1.72	1.64	<1.5
12/29/2010	Wednesday	16.88	<2.5	<10	31	40.1	<10	0.0496	13.5	<4.0	86.7	<4.0	440	1220				

Table 7: Bucklin Point Influent Metals and Cyanide

Bucklin Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
1/5/2010	Tuesday	0.08	3.72	10.00	13.80	0.94	0.011	8.38	0.05	43.20	4	53.9	124	<1.5	1.1	1.54	<1.0
1/6/2010	Wednesday	0.06	2.68	10.00	15.70	0.92	0.007	8.68	0.05	39.00	4	58.8	134				<1.0
1/12/2010	Tuesday	0.04	3.48	10.00	12.30	0.83	0.007	13.50	0.04	39.10	4	51.4	132				<1.0
1/13/2010	Wednesday	0.04	3.70	10.00	12.40	0.96		16.30	0.04	41.40	4	57.7	140				<1.0
1/14/2010	Thursday	0.04	6.16	10.00	12.20	0.91	0.010	15.00	0.07	44.10		60.8	147				<1.0
1/19/2010	Tuesday	0.04	3.31	10.00	10.20	0.97	0.005	11.70	0.05	36.60	4	63.5	169				<1.0
1/20/2010	Wednesday	0.04	2.32	10.00	8.85	0.95	0.006	11.00	0.07	37.60	4	55.3	135				<1.0
1/26/2010	Tuesday	0.04	2.55	10.00	9.48	0.79	0.005	8.21	0.08	38.40	4	60.2	180				<1.0
1/27/2010	Wednesday	0.04	9.43	10.00	9.63	0.87	0.006	9.75	0.10	37.30	4	61.6	217				<1.0
2/2/2010	Tuesday	0.04	1.43	10.00	9.75	0.65	0.004	8.57	0.03	39.70	4	39.9	168	<1.5	1.28	2.7	<1.0
2/3/2010	Wednesday	0.04	1.58	10.00	11.10	0.66	0.005	9.10	0.04	39.80	4	39.2	178				<1.0
2/9/2010	Tuesday	0.05	1.40	10.00	10.20	0.59	0.007	8.63	0.04	43.50	4	36.6	156				<1.0
2/10/2010	Wednesday	0.04	1.19	10.00	9.95	0.56	0.005	9.64	0.04	39.20	4	34.9	148				<1.0
2/16/2010	Tuesday	0.04	1.84	10.00	10.70	0.90	0.005	8.81	0.05	40.00	4	51.3	186				<1.0
2/17/2010	Wednesday	0.04	3.09	10.00	10.40	0.63	0.010	7.51	0.05	40.20	4	39.0	160				<1.0
2/23/2010	Tuesday	0.04	1.76	10.00	8.76	0.83	0.012	9.34	0.09	43.10	4	52.2	184				<1.0
2/24/2010	Wednesday	0.04	2.00	10.00	8.84	1.16	0.010	3.07	0.05	32.60	4	82.1	174				<1.0
3/2/2010	Tuesday	0.04	1.50	10.00	6.92	0.61	0.002	6.91	0.03	30.00	4.74	30.0	129	<1.5	1.18	6.69	<1.0
3/3/2010	Wednesday	0.04	1.35	10.00	6.19	0.60	0.002	6.13	0.03	28.30	4	32.3	127				<1.0
3/9/2010	Tuesday	0.04	1.96	10.00	8.49	0.50	0.003	8.86	0.03	36.90	4	23.4	122				<1.0
3/10/2010	Wednesday	0.05	1.68	10.00	7.73	0.61	0.002	7.43	0.03	36.00	4	26.7	129				<1.0
3/16/2010	Tuesday	0.10	2.30	10.00	16.40	2.84	0.023	6.72	0.05	44.50	4	138.0	327				<1.0
3/17/2010	Wednesday	0.15	3.50	10.00	22.80	3.79		6.94	0.06	52.30	4	193.0	443				<1.0
3/18/2010	Thursday	0.04	1.97	10.00	8.65	0.86	0.007	6.00	0.03	33.40		46.2	159				<1.0
3/23/2010	Tuesday	0.19	5.55	10.00	29.20	5.84	0.068	6.77	0.12	67.20	4	673.0	1650				<1.0
3/24/2010	Wednesday	0.11	4.10	10.00	19.70	3.31	0.031	5.67	0.17	52.10		287.0	618				<1.0
3/30/2010	Tuesday	0.04	1.26	10.00	8.26	1.17	0.014	2.99	0.03	21.00	4	65.7	112				<1.0
3/31/2010	Wednesday	0.04	0.85	10.00	6.27	0.66	0.005	3.58	0.03	27.90	4	49.4	80.4				<1.0
4/6/2010	Tuesday	0.05	0.87	10.00	10.00	0.74	0.004	10.00	0.03	26.70	4	48.9	130	<1.5	1.17	1.08	<1.0
4/7/2010	Wednesday	0.04	0.69	10.00	10.00	0.52	0.005	10.00	0.04	28.70	4	47.9	134				<1.0
4/13/2010	Tuesday	0.04	0.91	10.00	10.20	0.50	0.004	10.00	0.03	25.60	4	37.6	106				<1.0
4/14/2010	Wednesday	0.04	1.28	10.00	10.00	0.50	0.003	10.00	0.03	27.60	4	37.4	105				<1.0
4/20/2010	Tuesday	0.04	2.07	10.00	10.00	0.50	1.100	10.00	0.04	29.50	4	33.2	83.6				<1.0
4/20/2010	Tuesday						0.210										

Table 8: Bucklin Point Effluent Metals and Cyanide

Bucklin Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
4/21/2010	Wednesday	0.04	1.67	10.00	10.00	0.57	0.200	10.00	0.05	26.50	4	25.5	67.7				1.11
4/27/2010	Tuesday	0.04	1.14	10.00	10.00	0.50	0.200	10.00	0.05	27.90	4	28.5	67.6				<1.0
4/28/2010	Wednesday	0.04	2.04	10.00	10.00	0.50	0.200	10.00	0.05	29.60	4	28.1	64.4				<1.0
5/4/2010	Tuesday	0.10	4.61	10.00	18.10	2.19	0.016	7.98	0.21	4.20	4	147.0	425	<1.5	1.22	2.17	<1.0
5/5/2010	Wednesday	0.12	4.80	10.00	26.10	2.72	0.024	8.43	0.10	54.60	4	204.0	606				<1.0
5/11/2010	Tuesday	0.05	2.41	10.00	11.50	0.50	0.004	7.28	0.06	37.40	4	35.7	103				<1.0
5/12/2010	Wednesday	0.05	2.50	10.00	10.60	0.52	0.004	6.67	0.06	35.30	4	40.5	120				1.77
5/18/2010	Tuesday	0.07	7.63	10.00	16.60	1.02	0.007	7.53	0.08	41.10	4	86.9	233				<1.0
5/19/2010	Wednesday	0.04	5.32	10.00	15.90	0.63	0.006	7.75	0.08	37.90	4	73.8	207				<1.0
5/25/2010	Tuesday	0.05	3.12	10.00	13.50	0.69	0.007	7.41	0.17	36.80	4	59.8	175				<1.0
5/26/2010	Wednesday	0.05	3.24	10.00	12.60	0.85	0.014	7.98	0.23	32.60	4	65.6	204				<1.0
6/1/2010	Tuesday	0.06	2.66	10.00	15.80	1.50	0.012	6.43	0.06	35.40	5.22	98.2	344				
6/2/2010	Wednesday	0.05	2.24	10.00	13.00	1.14	0.008	7.26	0.04	34.20	4.61	70.2	233				
6/8/2010	Tuesday	0.04	0.99	10.00	8.07	0.57	0.006	7.55	0.05	35.00	8	30.6	112	<1.5	1.16	1.72	
6/9/2010	Wednesday	0.04	1.63	10.00	10.20	0.72	0.008	6.68	0.12	33.70	8	42.5	147				
6/15/2010	Tuesday	0.04	0.88	10.00	6.30	0.50	0.006	6.95	0.05	30.60	4	25.5	73				
6/16/2010	Wednesday	0.04	0.72	10.00	5.79	0.50	0.008	7.07	0.03	48.40	4	30.4	97.1				
6/22/2010	Tuesday	0.04	3.32	10.00	6.80	0.50	0.002	7.47	0.06	44.30	4	41.7	84				
6/23/2010	Wednesday	0.04	2.19	10.00	6.92	0.50	0.003	7.75	0.07	40.70	4	28.8	81.9				
6/29/2010	Tuesday	0.04	0.77	10.00	8.09	0.50	0.004	6.81	0.08	31.00	4	<20.0	72.3				
6/30/2010	Wednesday	0.05	0.60	10.00	8.92	0.50	0.004	8.12	0.07	32.20	4	<20.0	58.5				
7/6/2010	Tuesday	0.04	0.60	10.00	10.80	0.50	0.003	3.61	0.07	27.70	4	<20.0	61.5				<5.0
7/7/2010	Wednesday	0.04	3.10	10.00	10.70	0.50	0.002	5.71	0.07	28.50	4	<20.0	70.8				<5.0
7/13/2010	Tuesday	0.04	0.89	10.00	11.60	1.10	0.003	8.57	0.08	29.80	4	<20.0	41.8				<5.0
7/14/2010	Wednesday	0.04	0.68	13.00	8.03	0.50	0.003	6.09	0.07	22.70	8	20.6	55.3				<5.0
7/20/2010	Tuesday	0.04	1.16	10.00	7.04	0.50	0.002	9.73	0.04	31.70	4	<20.0	38.8	<1.5	1.33		<5.0
7/21/2010	Wednesday	0.04	1.12	10.00	7.50	0.50	0.004	8.13	0.06	37.70	4	32.6	45.9				<5.0
7/27/2010	Tuesday	0.04	1.20	13.00	7.87	0.50	0.004	8.12	0.06	37.80	8	35.7	43.5				<5.0
7/28/2010	Wednesday	0.04	1.00	10.00	8.43	0.50	0.002	7.70	0.07	37.80	8	27.2	41.8				<5.0
8/3/2010	Tuesday	0.04	0.85	10.00	8.56	0.50	0.003	9.18	0.09	34.40	4	28.3	64.8	<1.5	1.61		<5.0
8/4/2010	Wednesday	0.04	1.10	14.00	9.62	0.50	0.002	8.48	0.10	35.20	4	29.8	64.6				<5.0
8/10/2010	Tuesday	0.04	0.71	10.00	9.81	0.50	0.003	4.78	0.09	28.90	8	<20.0	60.1				<5.0
8/11/2010	Wednesday	0.07	0.83	10.00	9.31	0.50	0.003	6.54	0.09	26.50	8	<20.0	50.9				<5.0
8/17/2010	Tuesday	0.04	1.52	10.00	7.93	0.50	0.003	6.71	0.07	45.90	4	44.1	51.3				<5.0

Table 8: Bucklin Point Effluent Metals and Cyanide

Bucklin Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
8/18/2010	Wednesday	0.04	2.35	10.00	8.42	0.50	0.003	7.42	0.07	45.90	4	70.0	51.3				<5.0
8/24/2010	Tuesday	0.04	0.85	10.00	8.04	0.53	0.003	7.29	0.09	23.90	4	27.8	204				<5.0
8/25/2010	Wednesday	0.04	0.66	10.00	7.32	0.50	0.005	5.58	0.08	27.00	4	24.0	69.9				<5.0
8/31/2010	Tuesday	0.04	0.51	10.00	8.20	0.50	0.002	8.71	0.06	37.30	8	<20.0	51.7				<5.0
9/1/2010	Wednesday	0.04	0.61	10.00	8.68	0.50	0.002	9.48	0.05	36.60	8	<20.0	111				<1.0
9/7/2010	Tuesday	0.04	0.67	10.00	10.30	0.50	0.002	5.06	0.03	29.80	4	<20.0	116				<1.0
9/8/2010	Wednesday	0.05	1.16	10.00	10.50	0.50	0.002	6.14	0.04	41.80	4	<20.0	124				<1.0
9/14/2010	Tuesday	0.04	0.78	10.00	8.04	0.50	0.002	7.40	0.08	33.00	8	13.7	120	<1.5	1.6		<1.0
9/15/2010	Wednesday	0.04	0.90	10.00	8.60	0.50	0.002	13.10	0.07	31.50	8	14.7	137				<1.0
9/21/2010	Tuesday	0.05	1.17	10.00	10.40	0.50	0.003	8.78	0.08	36.10	4	18.9	134				<1.0
9/22/2010	Wednesday	0.05	1.49	10.00	9.56	0.50	0.002	7.83	0.08	49.80	4	19.8	695				<1.0
9/28/2010	Tuesday	0.04	0.94	10.00	9.04	0.50	0.004	7.37	0.09	27.80	8	22.2	138				<1.0
9/29/2010	Wednesday	0.04	0.88	10.00	7.44	0.50	0.003	9.50	0.06	25.60	8	17.4	110				<1.0
10/5/2010	Tuesday	0.04	1.41	11.00	8.35	0.50	0.002	6.94	0.06	28.90	4	21.4	128	<1.5	1.52		<5.0
10/6/2010	Wednesday	0.26	1.10	10.00	6.85	0.50	0.004	4.95	0.06	25.90	4	22.9	97.2				<5.0
10/12/2010	Tuesday	0.04	0.52	10.00	9.66	0.50	0.002	6.98	0.04	29.50	4	16.3	130				<5.0
10/13/2010	Wednesday	0.05	0.53	10.00	9.15	0.50	0.002	10.00	0.04	32.00	4	16.5	136				<5.0
10/19/2010	Tuesday	0.05	0.71	10.00	8.25	0.50	0.002	7.03	0.03	32.80	4	14.6	121				<5.0
10/20/2010	Wednesday	0.05	0.58	10.00	9.83	0.50	0.003	7.37	0.05	31.10	4	17.2	132				<5.0
10/26/2010	Tuesday	0.04	0.58	10.00	12.00	0.50	0.002	7.40	0.06	32.60	8	18.8	128				<5.0
10/27/2010	Wednesday	0.04	0.71	10.00	10.20	0.50	0.002	7.14	0.06	31.60	4	20.0	123				<5.0
11/2/2010	Tuesday	0.05	0.96	10.00	11.80	0.50	0.003	15.30	0.07	33.50	8	22.8	138				<5.0
11/3/2010	Wednesday	0.04	0.86	10.00	12.20	0.50	0.003	13.10	0.06	34.30	8	21.5	135				<5.0
11/7/2010	Sunday			10.00													
11/8/2010	Monday			10.00													
11/9/2010	Tuesday	0.04	0.95	10.00	8.85	0.63	0.007	5.94	0.06	30.60	8	42.1	145				<5.0
11/10/2010	Wednesday	0.04	0.77	10.00	8.43	0.50	0.005	8.66	0.05	32.80	8	30.1	131				<5.0
11/16/2010	Tuesday	0.04	2.44	10.00	10.50	0.50	0.003	7.20	0.09	34.90		28.8	143	<1.5	1.45		<5.0
11/17/2010	Wednesday	0.04	1.08	10.00	7.28	0.50	0.003	4.78	0.09	61.40	8	29.1	114				<5.0
11/18/2010	Thursday										8						
11/22/2010	Monday											21.8	130				<5.0
11/23/2010	Tuesday	0.07	0.60	10.00	9.93	0.50	0.004	6.83	0.07	32.90	8	20.4	128				<5.0
11/24/2010	Wednesday						0.002				8						
11/30/2010	Tuesday	0.04	0.60	10.00	10.10	0.50	0.002	7.89	0.07	36.20	8	39.2	123				<5.0

Table 8: Bucklin Point Effluent Metals and Cyanide

Bucklin Point Effluent Metals 2010
all analyses in ppb unless otherwise noted

Date	Day of the Week	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Al	Fe	Se	As	Mo	Sn
12/1/2010	Wednesday	0.04	1.08	29.00	9.23	0.55	0.006	9.13	0.13	33.20	8	79.2	172				<1.0
12/7/2010	Tuesday	0.04	1.82	10.00	11.30	0.50	0.004	9.15	0.09	41.50	8	48.7	150	<1.5	1.68		<1.0
12/8/2010	Wednesday	0.04	1.52	10.00	10.00	0.50	0.003	11.10	0.11	41.20	8	38.2	150				<1.0
12/14/2010	Tuesday	0.04	0.51	12.00	6.92	0.50	0.002	9.77	0.04	33.50	8	30.0	118				<1.0
12/15/2010	Wednesday	0.04	0.61	10.00	12.10	0.52	0.002	10.40	0.07	37.50	8	37.3	137				<1.0
12/21/2010	Tuesday	0.06	0.76	10.00	9.48	0.50	0.003	11.80	0.03	34.70	8	28.0	112				<1.0
12/22/2010	Wednesday	0.04	0.59	10.00	8.88	0.50	0.003	11.00	0.04	32.70	8	25.6	102				<1.0
12/28/2010	Tuesday	0.04	0.50	10.00	7.58	0.50	0.002	6.25	0.04	36.80	8	27.3	118				<1.0
12/29/2010	Wednesday	0.04	0.50	10.00	7.13	0.50	0.002	7.72	0.05	39.40	8	26.5	118				<1.0

Table 8: Bucklin Point Effluent Metals and Cyanide

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/4/2010	0.142	0.483	11.2	21.0	2.98	21.63
1/5/2010	0.129	0.482	11.9	22.4	3.19	23.01
1/6/2010	0.127	0.515	14.5	18.5	3.11	19.14
1/11/2010	0.100	0.393	13.6	18.4	3.78	18.89
1/12/2010	0.0843	0.256	15.2	21.9	3.57	22.24
1/13/2010	0.0826	0.260	14.5	28.1	4.27	28.44
1/18/2010	0.108	0.912	9.33	16.7	3.52	17.72
1/19/2010	0.0690	0.961	7.43	13.6	4.03	14.63
1/20/2010	0.0806	0.813	8.80	12.0	5.08	12.89
1/25/2010	0.0681	0.749	8.07	16.6	3.39	17.42
1/26/2010	0.0800	1.09	7.56	13.3	2.64	14.47
1/27/2010	0.0833	0.947	7.56	12.1	2.71	13.13
2/1/2010	0.107	0.680	12.6	18.7	5.09	19.49
2/2/2010	0.130	0.766	13.4	21.4	5.36	22.30
2/3/2010	0.128	0.716	11.9	27.7	5.95	28.54
2/8/2010	0.112	0.451	14.7	20.4	4.97	20.96
2/9/2010	0.0974	0.359	16.4	26.9	4.85	27.36
2/10/2010	0.117	0.536	15.7	26.9	4.48	27.55
2/15/2010	0.101	0.318	15.2	25.3	5.50	25.72
2/16/2010	0.0985	0.436	13.6	22.1	3.79	22.63
2/17/2010	0.0957	0.470	13.6	22.1	3.97	22.67
2/22/2010	0.101	0.392	15.0	24.7	3.96	25.19
2/23/2010	0.0789	0.310	11.8	21.8	3.63	22.19
2/24/2010	0.0492	0.908	3.87	7.57	1.26	8.53
3/1/2010	0.111	1.25	6.12	11.6	1.99	12.96
3/2/2010	0.0929	1.31	6.77	13.9	2.34	15.30
3/3/2010	0.0990	1.46	7.27	12.5	2.97	14.06
3/8/2010	0.0868	0.973	10.3	18.3	3.81	19.36
3/9/2010	0.111	0.929	11.0	19.3	3.12	20.34
3/10/2010	0.1043	0.878	10.9	23.3	5.06	24.28
3/15/2010	0.0475	1.30	3.72	5.79	2.19	7.14

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/4/2010	1.11	1.27	8.62	11.2	1.38	13.58
1/5/2010	1.08	1.37	9.40	12.5	1.71	14.95
1/6/2010	1.12	1.60	10.3	11.9	1.31	14.62
1/11/2010	1.10	1.54	10.6	12.6	1.49	15.24
1/12/2010	1.13	1.51	11.4	13.2	1.42	15.84
1/13/2010	1.23	1.01	11.8	14.2	1.63	16.44
1/18/2010	0.545	0.905	7.77	10.2	1.06	11.65
1/19/2010	0.416	0.914	6.64	8.06	0.672	9.39
1/20/2010	0.410	0.690	8.01	10.1	0.868	11.20
1/25/2010	0.322	0.698	6.66	8.22	0.912	9.24
1/26/2010	0.344	0.698	7.57	9.65	0.886	10.69
1/27/2010	0.336	0.714	7.73	10.3	0.813	11.35
2/1/2010	0.639	0.561	11.0	13.5	1.11	14.70
2/2/2010	0.576	0.362	12.9	15.7	1.15	16.64
2/3/2010	0.614	0.506	7.66	12.3	1.02	13.42
2/8/2010	0.689	0.541	12.6	15.2	1.54	16.43
2/9/2010	0.705	0.385	15.6	18.6	1.69	19.69
2/10/2010	0.563	0.447	14.0	17.4	1.60	18.41
2/15/2010	0.768	0.302	13.6	16.7	1.70	17.77
2/16/2010	0.596	0.304	13.6	16.8	1.91	17.70
2/17/2010	0.541	0.539	13.4	16.3	1.79	17.38
2/22/2010	0.696	0.226	13.2	16.5	1.61	17.42
2/23/2010	0.342	0.560	9.58	11.3	1.57	12.20
2/24/2010	0.209	0.951	4.92	7.79	0.939	8.95
3/1/2010	0.224	0.936	6.86	9.62	0.670	10.78
3/2/2010	0.235	0.803	6.27	8.48	0.580	9.52
3/3/2010	0.3081	0.822	7.81	10.2	0.781	11.33
3/8/2010	0.161	0.375	11.6	13.6	1.22	14.14
3/9/2010	0.146	0.518	11.6	13.9	1.29	14.56
3/10/2010	0.146	0.598	11.7	14.1	1.16	14.84
3/15/2010	0.0851	1.02	6.36	8.47	0.895	9.58

Table 9: Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/16/2010	0.0958	1.62	6.02	11.3	2.35	13.02
3/17/2010	0.0880	1.49	5.95	8.83	2.22	10.41
3/22/2010	0.086	0.934	8.95	15.5	3.42	16.52
3/23/2010	0.05105	0.872	3.30	5.49	1.42	6.41
3/24/2010	0.0735	1.54	5.18	9.40	1.67	11.01
3/29/2010	0.0530	0.657	2.13	8.02	1.61	8.73
3/30/2010	0.0392	1.25	1.71	2.84	0.809	4.13
3/31/2010	0.06225	2.19	2.61	5.46	2.10	7.71
4/5/2010	0.109	1.36	5.20	11.5	1.58	12.97
4/6/2010	0.0618	1.18	5.90	9.60	1.58	10.84
4/7/2010	0.0942	1.24	6.49	12.1	1.66	13.43
4/12/2010	0.0742	0.875	7.16	16.8	4.32	17.75
4/13/2010	0.113	0.831	8.30	22.3	6.16	23.24
4/14/2010	0.125	0.915	9.35	26.8	5.14	27.84
4/19/2010	0.113	0.602	9.82	1.30	3.19	2.02
4/20/2010	0.125	0.548	10.7	15.2	2.80	15.87
4/21/2010	0.107	0.491	11.8	28.5	3.04	29.10
4/26/2010	0.0969	0.709	10.5	26.2	2.57	27.01
4/27/2010	0.0954	0.616	12.1	37.2	3.17	37.91
4/28/2010	0.111	0.628	12.7	22.6	3.64	23.34
5/3/2010	0.132	0.355	9.94	13.6	4.17	14.09
5/4/2010	0.112	0.411	11.7	14.5	3.48	15.02
5/5/2010	0.139	0.318	14.8	23.8	3.42	24.26
5/10/2010	0.122	0.306	12.7	25.7	3.83	26.13
5/11/2010	0.139	0.406	13.9	22.5	3.62	23.05
5/12/2010	0.108	0.16	16.9	26.9	4.12	27.17
5/17/2010	0.0478	0.173	14.2	22.4	3.48	22.62
5/18/2010	0.0572	0.206	11.6	22.5	3.00	22.76
5/19/2010	0.0747	0.442	8.61	15.0	2.01	15.52
5/24/2010	0.0674	0.104	14.5	33.9	4.42	34.07
5/25/2010	0.0854	<0.100	14.6	36.9	4.29	37.09

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/16/2010	0.0969	1.25	8.35	8.93	1.18	10.28
3/17/2010	0.0938	1.20	7.53	9.32	0.849	10.61
3/22/2010	0.116	0.400	6.84	8.71	1.01	9.23
3/23/2010	0.0679	0.786	4.70	6.04	0.801	6.89
3/24/2010	0.0932	1.16	7.09	8.93	0.749	10.18
3/29/2010	0.041	0.429	2.30	3.85	0.727	4.32
3/30/2010	0.0498	1.19	2.73	3.82	0.502	5.06
3/31/2010	0.0789	1.62	3.84	5.21	0.448	6.91
4/5/2010	0.131	0.850	6.41	6.50	0.419	7.48
4/6/2010	0.124	1.07	6.04	7.12	0.462	8.31
4/7/2010	0.143	1.06	7.13	8.60	0.605	9.80
4/12/2010	0.1633	0.619	7.62	9.32	2.13	10.10
4/13/2010	0.1741	0.484	9.25	9.88	0.681	10.54
4/14/2010	0.202	0.793	10.3	11.7	0.824	12.70
4/19/2010	0.192	0.371	11.1	13.0	0.913	13.56
4/20/2010	0.192	0.531	12.5	14.2	0.882	14.92
4/21/2010	0.175	0.377	13.4	15.6	0.977	16.15
4/26/2010	0.159	0.233	11.5	15.4	0.993	15.79
4/27/2010	0.134	0.697	13.1	18.1	1.27	18.93
4/28/2010	0.130	0.393	13.8	16.6	1.40	17.12
5/3/2010	0.148	0.138	11.3	14.8	1.09	15.09
5/4/2010	0.144	<0.100	12.7	17.4	1.40	17.64
5/5/2010	0.185	0.287	13.6	17.8	1.04	18.27
5/10/2010	0.219	0.117	12.0	14.8	0.764	15.14
5/11/2010	0.274	0.461	15.5	17.8	0.775	18.54
5/12/2010	0.252	0.338	15.3	17.9	0.994	18.49
5/17/2010	0.223	0.199	14.6	18.9	1.98	19.32
5/18/2010	0.208	0.503	10.3	14.4	2.36	15.11
5/19/2010	0.230	0.399	8.92	11.9	1.28	12.53
5/24/2010	0.570	<0.100	13.4	17.4	1.75	18.07
5/25/2010	0.704	<0.100	14.3	17.4	1.89	18.20

Table 9: Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
5/26/2010	0.0770	<0.100	14.1	13.4	4.24	13.58
5/31/2010	0.186	<0.100	12.1	16.9	2.56	17.19
6/1/2010	0.218	<0.100	13.2	19.6	2.62	19.92
6/2/2010	0.236	0.149	11.5	16.9	2.60	17.29
6/7/2010	0.258	0.119	14.6	19.4	3.25	19.78
6/8/2010	0.0458	<0.100	14.4	24.0	3.28	24.15
6/9/2010	0.0240	0.105	12.2	17.1	1.15	17.23
6/14/2010	0.0461	0.149	9.70	12.7	0.971	12.90
6/15/2010	0.0287	<0.100	10.4	12.6	1.46	12.73
6/16/2010	0.0196	<0.100	14.3	18.1	1.47	18.22
6/21/2010	0.0413	<0.100	13.9	19.3	1.31	19.44
6/22/2010	0.0550	<0.100	14.0	20.4	1.58	20.56
6/23/2010	0.107	<0.100	9.52	13.0	2.36	13.21
6/28/2010	0.127	<0.100	11.0	16.6	2.89	16.83
6/29/2010	0.214	<0.100	12.3	16.9	3.57	17.21
6/30/2010	0.120	<0.100	18.1	23.6	3.65	23.82
7/5/2010	0.203	<0.100	13.7	20.1	3.15	20.40
7/6/2010	0.222	<0.100	12.8	18.2	2.89	18.52
7/7/2010	0.203	<0.100	11.9	18.4	2.93	18.70
7/12/2010	0.231	0.15	11.8	17.7	3.05	18.08
7/13/2010	0.120	0.161	12.1	18.9	3.38	19.18
7/14/2010	0.110	0.273	8.97	12.3	2.22	12.68
7/19/2010	0.0166	<0.100	12.1	16.8	2.80	16.92
7/20/2010	0.0233	<0.100	13.0	17.3	2.81	17.42
7/21/2010	0.0167	<0.100	13.2	19.1	3.02	19.22
7/26/2010	0.111	<0.100	13.0	19.9	3.49	20.11
7/27/2010	0.0672	<0.100	14.5	20.7	3.42	20.87
7/28/2010	0.117	<0.100	14.5	20.3	3.58	20.52
8/2/2010	0.0487	<0.100	16.3	23.6	3.91	23.75
8/3/2010	0.0136	<0.100	16.4	24.3	4.48	24.41
8/4/2010	<0.01	<0.100	14.0	18.8	3.27	18.91

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
5/26/2010	0.769	2.401	12.2	13.5	1.82	16.67
5/31/2010	2.20	<0.100	10.7	11.2	1.12	13.50
6/1/2010	1.49	0.1	9.43	8.00	1.85	9.59
6/2/2010	1.89	0.24	9.29	9.52	1.49	11.65
6/7/2010	1.46	0.24	9.31	12.0	1.70	13.70
6/8/2010	1.44	0.24	10.3	20.0	1.67	21.68
6/9/2010	1.43	0.440	7.08	9.85	1.51	11.72
6/14/2010	0.516	0.113	7.86	9.60	1.31	10.23
6/15/2010	1.48	0.78	7.89	14.2	0.969	16.46
6/16/2010	1.23	0.51	11.0	35.3	1.63	37.04
6/21/2010	0.980	<0.100	13.6	13.9	1.50	14.98
6/22/2010	0.709	0.661	11.1	11.5	1.61	12.87
6/23/2010	0.736	0.504	8.24	10.0	1.12	11.24
6/28/2010	0.600	0.189	6.72	8.37	1.70	9.16
6/29/2010	1.26	0.17	8.46	8.83	1.42	10.26
6/30/2010	1.68	<0.100	12.2	13.9	1.60	15.68
7/5/2010	0.558	<0.100	10.5	12.4	1.82	13.06
7/6/2010	0.566	0.714	11.1	12.5	1.84	13.78
7/7/2010	1.14	0.5	8.22	10.4	1.60	12.04
7/12/2010	0.991	<0.100	9.11	10.9	1.32	11.99
7/13/2010	0.541	0.299	12.2	14.3	1.75	15.14
7/14/2010	0.926	0.394	6.92	8.95	1.22	10.27
7/19/2010	0.774	0.217	8.29	9.75	1.07	10.74
7/20/2010	0.0883	0.367	11.0	11.9	1.02	12.36
7/21/2010	0.592	<0.100	10.3	14.4	1.64	15.09
7/26/2010	0.818	<0.100	11.2	13.6	1.11	14.52
7/27/2010	1.19	<0.100	11.5	13.7	1.28	14.99
7/28/2010	1.52	0.16	10.6	13.5	1.63	15.18
8/2/2010	2.06	<0.100	10.6	12.5	1.98	14.66
8/3/2010	1.69	<0.100	9.84	12.9	2.36	14.69
8/4/2010	0.438	<0.100	10.8	11.5	1.90	12.04

Table 9: Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
8/9/2010	0.0115	<0.100	14.3	20.5	3.20	20.61
8/10/2010	0.0146	<0.100	15.2	18.8	3.82	18.91
8/11/2010	<0.01	<0.100	14.7	20.2	3.74	20.31
8/16/2010						
8/17/2010	0.0459	<0.100	15.0	21.0	3.41	21.15
8/18/2010	0.0235	<0.100	16.1	20.8	3.56	20.92
8/19/2010	0.0951	<0.100	15.8	22.2	3.34	22.40
8/20/2010						
8/23/2010						
8/24/2010	0.209	<0.100	11.9	15.0	2.28	15.31
8/25/2010	0.199	0.369	9.47	11.6	1.84	12.17
8/26/2010	0.227	<0.100	13.9	18.2	2.66	18.53
8/30/2010	0.162	<0.100	18.6	28.6	4.35	28.86
8/31/2010	0.186	0.169	15.8	21.9	3.54	22.26
9/1/2010	0.221	<0.100	16.2	22.1	2.69	22.42
9/6/2010	0.198	<0.100	16.0	22.9	3.16	23.20
9/7/2010	0.0644	<0.100	15.2	20.5	3.69	20.66
9/8/2010	0.101	<0.100	16.3	26.8	3.67	27.00
9/13/2010	0.0447	0.118	17.4	23.7	4.26	23.86
9/14/2010	0.0440	0.132	16.9	22.7	4.10	22.88
9/15/2010	0.0193	<0.100	18.7	24.1	4.20	24.22
9/20/2010	0.0228	<0.100	18.3	24.4	4.47	24.52
9/21/2010	0.0165	<0.100	18.2	24.2	3.88	24.32
9/22/2010	0.0131	<0.100	18.3	26.1	3.99	26.21
9/27/2010	0.0135	0.104	18.7	27.6	4.29	27.72
9/28/2010	0.0292	<0.100	13.8	20.8	3.17	20.93
9/29/2010	0.0492	<0.100	15.8	16.9	3.27	17.05
10/4/2010	0.0185	<0.100	17.3	23.0	4.00	23.12
10/5/2010	0.0571	<0.100	13.1	14.2	3.43	14.36
10/6/2010	0.140	0.552	7.45	10.2	1.54	10.89
10/11/2010	0.0112	<0.100	16.1	17.3	3.84	17.41

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
8/9/2010	0.797	0.263	9.91	12.7	1.92	13.76
8/10/2010	1.30	0.22	10.3	12.5	1.22	14.02
8/11/2010	0.235	<0.100	12.5	14.5	3.08	14.84
8/16/2010	0.629	0.115	13.8	16.8	2.48	17.54
8/17/2010	1.06	<0.100	11.8	13.6	1.63	14.76
8/18/2010	1.97	<0.100	10.5	12.2	1.50	14.27
8/19/2010						
8/20/2010			11.0	13.2	1.68	13.20
8/23/2010	1.49	<0.100	6.16	8.61	1.39	10.20
8/24/2010	0.884	0.106	10.9	9.86	0.966	10.85
8/25/2010	1.22	<0.100	7.51	9.57	0.743	10.89
8/26/2010						
8/30/2010	0.612	<0.100	14.5	20.2	2.50	20.91
8/31/2010	0.885	<0.100	13.8	16.4	1.34	17.39
9/1/2010	1.58	0.43	13.4	14.9	1.31	16.91
9/6/2010	1.10	0.173	11.4	13.5	1.11	14.77
9/7/2010	1.78	<0.100	10.8	12.3	1.16	14.18
9/8/2010	2.72	<0.100	11.1	13.9	1.55	16.72
9/13/2010	1.17	0.267	12.6	15.1	2.40	16.54
9/14/2010	0.856	<0.100	13.1	14.9	2.72	15.86
9/15/2010	1.08	<0.100	12.5	14.7	1.78	15.88
9/20/2010	0.731	0.238	13.2	17.4	1.46	18.37
9/21/2010	1.89	<0.100	13.4	16.8	1.86	18.79
9/22/2010	1.32	0.155	14.1	16.6	2.39	18.08
9/27/2010	1.58	0.344	12.7	15.1	2.13	17.02
9/28/2010	1.10	<0.100	8.99	11.2	2.18	12.40
9/29/2010	2.53	<0.100	10.1	12.4	1.44	15.03
10/4/2010	0.389	<0.100	13.7	19.3	2.19	19.79
10/5/2010	0.840	<0.100	9.94	13.9	1.62	14.84
10/6/2010	0.612	0.458	6.87	8.38	0.898	9.45
10/11/2010	0.478	<0.100	14.2	17.1	2.33	17.68

Table 9: Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
10/12/2010	<0.01	<0.100	19.6	20.9	3.80	21.01
10/13/2010	0.0105	<0.100	18.0	25.3	4.16	25.41
10/18/2010	0.0111	<0.100	19.6	26.5	3.95	26.61
10/19/2010	<0.01	<0.100	19.5	23.9	3.66	24.01
10/20/2010	0.0107	<0.100	16.0	24.5	3.72	24.61
10/25/2010	<0.01	<0.100	19.2	26.1	3.52	26.21
10/26/2010	<0.01	<0.100	18.5	23.0	3.48	23.11
10/27/2010	0.0326	<0.100	17.0	28.7	3.80	28.83
11/1/2010	0.0175	<0.100	16.2	21.3	3.08	21.42
11/2/2010	0.0405	0.121	18.8	26.2	3.54	26.36
11/3/2010	0.0346	0.193	19.9	27.3	4.35	27.53
11/8/2010	0.149	0.352	9.73	12.6	2.19	13.10
11/9/2010	0.162	0.158	13.6	14.5	2.44	14.82
11/10/2010	0.190	<0.100	18.5	24.0	3.38	24.29
11/15/2010	0.0114	<0.100	18.2	24.3	3.91	24.41
11/16/2010	0.0167	<0.100	16.0	21.5	2.92	21.62
11/17/2010	<0.01	<0.100	9.82	17.4	2.79	17.51
11/22/2010	0.0102	<0.100	15.4	21.6	3.50	21.71
11/23/2010	0.0139	<0.100	16.5	23.5	3.44	23.61
11/24/2010	0.0147	<0.100	16.3	24.3	3.84	24.41
11/29/2010	0.0190	<0.100	17.8	18.3	4.53	18.42
11/30/2010	0.0145	<0.100	18.2	25.2	4.41	25.31
12/1/2010	0.0498	0.2142	11.6	16.8	2.64	17.06
12/6/2010	0.0262	<0.100	17.9	23.4	3.39	23.53
12/7/2010	0.0209	<0.100	19.3	21.1	3.59	21.22
12/8/2010	0.0238	<0.100	19.9	26.1	3.98	26.22
12/13/2010	0.0797	1.6803	6.49	11.0	1.71	12.76
12/14/2010	0.0725	0.9575	8.13	12.1	1.75	13.13
12/15/2010	0.0766	0.8214	8.49	13.9	2.55	14.80
12/20/2010	0.128	0.361	14.3	19.7	2.86	20.19
12/21/2010	0.0912	0.3488	13.0	17.8	2.86	18.24

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
10/12/2010	0.696	<0.100	16.6	17.8	2.11	18.60
10/13/2010	0.403	<0.100	17.3	19.6	2.91	20.10
10/18/2010	0.0668	<0.100	14.6	19.4	1.73	19.57
10/19/2010	0.0802	<0.100	17.8	20.9	2.43	21.08
10/20/2010	0.232	<0.100	16.6	18.4	1.10	18.73
10/25/2010	0.0721	<0.100	18.9	22.3	2.41	22.47
10/26/2010	0.107	<0.100	17.3	19.0	1.53	19.21
10/27/2010	0.0357	<0.100	16.7	19.0	2.72	19.14
11/1/2010	0.263	<0.100	16.8	18.7	1.42	19.06
11/2/2010	0.198	<0.100	18.7	22.5	2.72	22.80
11/3/2010	0.494	<0.100	17.0	20.3	1.61	20.89
11/8/2010	0.570	0.147	7.66	10.4	1.05	11.12
11/9/2010	0.0934	<0.100	12.4	15.1	1.21	15.29
11/10/2010	1.07	0.84	14.5	17.2	0.728	19.11
11/15/2010	0.942	<0.100	16.4	20.3	2.44	21.34
11/16/2010	0.512	<0.100	13.0	15.2	2.44	15.81
11/17/2010	1.02	0.27	8.41	10.3	1.17	11.59
11/22/2010	0.187	<0.100	14.9	17.2	2.39	17.49
11/23/2010	0.791	<0.100	15.7	19.9	1.97	20.79
11/24/2010	2.26	<0.100	13.3	16.6	1.86	18.96
11/29/2010	2.02	<0.100	13.6	17.2	2.45	19.32
11/30/2010	1.42	<0.100	11.5	13.7	2.00	15.22
12/1/2010	1.21	0.28	8.84	12.3	1.83	13.79
12/6/2010	1.44	0.14	16.9	19.5	2.64	21.08
12/7/2010	2.78	<0.100	12.7	14.9	2.34	17.78
12/8/2010	3.44	0.1	12.4	14.1	2.07	17.64
12/13/2010	0.454	0.606	8.30	10.5	0.997	11.56
12/14/2010	0.836	0.564	7.17	10.2	0.887	11.60
12/15/2010	0.557	0.473	6.74	8.68	1.20	9.71
12/20/2010	1.05	0.15	8.59	11.1	0.864	12.30
12/21/2010	1.47	0.26	9.81	10.6	1.15	12.33

Table 9: Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2010

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
12/22/2010	0.132	0.161	15.4	21.7	2.96	21.99
12/27/2010	0.123	<0.100	15.7	22.3	3.02	22.52
12/28/2010	0.0540	<0.100	14.0	19.7	3.01	19.85
12/29/2010	0.0617	<0.100	14.1	20.5	2.57	20.66

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
12/22/2010	1.72	0.25	10.9	13.6	1.19	15.57
12/27/2010	3.56	0.41	8.70	12.6	1.85	16.57
12/28/2010	3.37	0.31	7.52	11.0	1.73	14.68
12/29/2010	3.38	0.48	5.96	10.6	1.72	14.46

Table 9: Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/4/2010	0.145	0.239	14.8	24.9	3.78	25.28
1/5/2010	0.149	<0.10	14.5	28.5	4.08	28.75
1/6/2010	0.119	<0.10	15.3	30.0	3.86	30.22
1/7/2010						
1/11/2010	0.0884	<0.10	16.4	29.0	5.73	29.19
1/12/2010	0.182	<0.10	16.5	22.7	5.40	22.98
1/13/2010	0.128	0.239	16.8	23.3	5.36	23.67
1/14/2010						
1/15/2010						
1/18/2010	0.0783	0.457	7.31	11.0	3.86	11.54
1/19/2010	0.249	0.432	13.8	21.6	6.06	22.28
1/20/2010	0.123	0.866	13.1	19.6	4.11	20.59
1/25/2010	0.165	<0.10	13.6	25.4	5.29	25.67
1/26/2010	0.164	0.817	8.37	13.9	3.09	14.88
1/27/2010	0.194	0.986	12.2	16.0	4.18	17.18
2/1/2010	0.147	0.595	13.8	22.2	5.99	22.94
2/2/2010	0.216	0.614	14.2	18.3	6.06	19.13
2/3/2010	0.327	0.146	14.4	25.9	5.80	26.37
2/4/2010						
2/5/2010						
2/8/2010	0.232	<0.10	16.1	22.0	4.92	22.33
2/9/2010	0.216	<0.10	15.5	25.5	5.25	25.82
2/10/2010	0.170	<0.10	16.0	21.5	5.04	21.77
2/15/2010	0.227	0.132	16.9	29.6	6.30	29.96
2/16/2010	0.226	0.161	16.5	27.9	5.05	28.29
2/17/2010	0.264	<0.10	15.5	25.1	3.87	25.46
2/22/2010	0.123	<0.10	16.8	30.4	4.07	30.62
2/23/2010	0.236	<0.10	17.3	27.8	5.14	28.14
2/24/2010	0.103	0.357	6.63	14.3	2.74	14.76
3/1/2010	0.147	1.51	9.86	13.3	2.10	14.96
3/2/2010	0.229	1.53	10.8	18.1	4.69	19.86

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/4/2010	<0.0100	9.25	0.428	2.69	1.88	11.95
1/5/2010	0.0866	9.18	0.282	2.20	2.04	11.47
1/6/2010	0.0954	8.82	0.451	2.63	2.14	11.55
1/7/2010	0.0787	9.30	0.576	2.61		11.99
1/11/2010	0.0918	7.93	1.12	3.77	2.40	11.79
1/12/2010	0.0944	6.64	0.770	3.01	2.18	9.74
1/13/2010	0.0768	6.70	0.417	3.19	2.19	9.97
1/14/2010	0.0922	6.82	0.792	3.26		10.17
1/15/2010			0.433	4.41		4.41
1/18/2010	0.0560	6.35	1.17	3.29	2.12	9.70
1/19/2010	0.0892	6.07	1.21	3.36	1.86	9.52
1/20/2010	0.136	4.25	2.57	4.93	2.17	9.32
1/25/2010	0.0690	4.50	0.679	3.08	2.08	7.65
1/26/2010	0.0561	6.45	0.142	2.01	1.50	8.52
1/27/2010	0.0894	7.36	0.226	2.31	1.92	9.76
2/1/2010	0.0342	7.56	0.121	1.97	1.96	9.56
2/2/2010	0.0301	7.27	0.191	1.89	2.07	9.19
2/3/2010	0.0288	7.62	0.135	1.73	2.33	9.38
2/4/2010	0.0260	8.08	0.102	1.85		9.96
2/5/2010			0.119	1.70		1.70
2/8/2010	0.0225	7.49	<0.1	1.50	2.12	9.01
2/9/2010	0.0232	7.25	0.124	2.04	2.59	9.31
2/10/2010	0.0937	6.31	0.321	2.71	2.62	9.11
2/15/2010	0.0368	6.75	<0.1	1.80	2.45	8.59
2/16/2010	0.0459	6.69	0.139	1.52	2.44	8.26
2/17/2010	0.0647	6.56	0.202	1.82	2.37	8.44
2/22/2010	0.0292	6.80	<0.1	1.65	2.26	8.48
2/23/2010	0.0780	6.54	0.210	2.27	2.59	8.89
2/24/2010	0.0268	3.55	0.202	2.44	1.57	6.02
3/1/2010	0.139	4.15	0.115	1.66	0.665	5.95
3/2/2010	0.117	3.47	0.229	1.88	0.772	5.47

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/3/2010	0.210	1.38	11.0	19.7	3.67	21.29
3/8/2010	0.186	0.874	12.2	18.5	5.58	19.56
3/9/2010	0.240	0.830	12.9	18.2	8.67	19.27
3/10/2010	0.242	0.626	13.2	21.8	5.60	22.67
3/15/2010	0.09152	1.24	4.12	8.55	1.16	9.88
3/16/2010	0.0928	1.62	4.68	8.50	2.43	10.21
3/17/2010						
3/18/2010						
3/19/2010						
3/22/2010	0.156	0.964	10.4	24.0	3.28	25.12
3/23/2010	0.108	0.588	6.53	13.8	4.00	14.50
3/24/2010	0.0866	1.49	5.33	13.6	1.74	15.18
3/29/2010	0.1043	0.956	6.70	12.6	2.09	13.66
3/30/2010	0.0594	0.647	1.61	5.22	1.19	5.93
3/31/2010	0.0435	1.81	1.88	3.97	1.01	5.82
4/5/2010	0.155	2.04	6.09	7.88	1.22	10.08
4/6/2010	0.174	1.94	6.67	11.6	1.57	13.71
4/7/2010	0.157	1.76	6.84	14.4	1.67	16.32
4/8/2010						
4/9/2010						
4/12/2010	1.65	<0.100	8.34	11.7	1.75	13.45
4/13/2010	0.142	1.30	9.07	16.2	6.78	17.64
4/14/2010	0.127	1.12	9.09	45.0	4.91	46.25
4/19/2010	0.165	0.875	10.4	14.2	3.05	15.24
4/20/2010	0.164	0.727	10.2	20.3	3.88	21.19
4/21/2010	0.124	0.73	10.6	44.6	3.14	45.45
4/26/2010	0.0936	0.547	12.2	20.9	3.02	21.54
4/27/2010	0.165	0.655	10.8	36.3	3.09	37.12
4/28/2010	0.152	0.755	11.6	32.7	4.08	33.61
5/3/2010	0.127	0.285	11.5	22.2	4.18	22.61
5/4/2010	0.188	0.367	12.5	16.4	3.76	16.96

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/3/2010	0.156	4.75	0.680	2.02	1.49	6.93
3/8/2010	0.0329	4.73	<0.1	1.18	1.66	5.94
3/9/2010	0.0289	4.65	0.131	1.32	1.95	6.00
3/10/2010	0.0297	5.19	<0.1	1.16	1.96	6.38
3/15/2010	0.0442	5.04	0.109	3.12	1.50	8.20
3/16/2010	0.242	5.65	0.941	6.99	2.30	12.88
3/17/2010	0.287	5.36	1.56	7.86	5.92	13.51
3/18/2010	0.184	4.86	0.467	3.71		8.75
3/19/2010			0.196	1.24		1.24
3/22/2010	0.0696	4.25	0.157	1.38	1.44	5.70
3/23/2010	0.0366	3.33	0.101	12.6	5.21	15.97
3/24/2010	0.242	4.67	1.50	8.27	2.96	13.18
3/29/2010	0.0218	2.47	<0.1	2.98	1.80	5.47
3/30/2010	0.0122	2.90	<0.1	2.62	1.08	5.53
3/31/2010	0.0128	4.96	0.149	1.04	0.598	6.01
4/5/2010	0.349	3.51	1.06	2.06	0.708	5.92
4/6/2010	0.322	3.35	0.813	1.88	0.691	5.55
4/7/2010	0.249	3.76	0.696	1.81	0.708	5.82
4/8/2010	0.235	3.68	0.636	1.65		5.57
4/9/2010			0.472	1.72		1.72
4/12/2010	0.176	4.21	0.409	1.54	0.666	5.93
4/13/2010	0.270	3.89	0.964	1.88	0.763	6.04
4/14/2010	0.278	3.73	1.05	2.69	3.93	6.70
4/19/2010	0.108	2.262	0.258	0.916	0.536	3.29
4/20/2010	0.117	2.283	0.405	1.01	0.853	3.41
4/21/2010	0.0937	2.716	0.389	0.977	1.23	3.79
4/26/2010	0.0815	3.129	0.224	1.36	1.89	4.57
4/27/2010	0.115	3.185	0.253	1.26	1.59	4.56
4/28/2010	0.120	2.8	0.372	1.53	1.08	4.45
5/3/2010	0.0496	3.16	0.271	3.35	2.50	6.56
5/4/2010	0.0525	2.988	0.286	5.70	2.68	8.74

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
5/5/2010	0.304	0.11	12.1	18.7	4.84	19.11
5/10/2010	0.369	<0.100	13.3	19.0	3.55	19.47
5/11/2010	0.0512	<0.100	13.4	25.0	4.03	25.15
5/12/2010	0.0541	0.104	14.0	25.5	4.24	25.66
5/17/2010	0.0443	<0.100	14.0	24.3	2.90	24.44
5/18/2010	0.0391	<0.100	14.5	21.9	3.12	22.04
5/19/2010	0.553	<0.100	10.4	20.5	2.57	21.15
5/24/2010	0.0848	<0.100	14.2	27.5	4.72	27.68
5/25/2010	0.0390	<0.100	14.1	27.9	4.39	28.04
5/26/2010	0.0544	<0.100	13.3	25.0	3.53	25.15
5/31/2010	0.116	<0.100	14.2	22.6	2.91	22.82
6/1/2010	0.0194	<0.100	15.2	23.5	3.22	23.62
6/2/2010	0.317	<0.100	12.3	20.3	3.23	20.72
6/7/2010	0.0297	<0.100	15.9	24.0	3.34	24.13
6/8/2010	0.0224	<0.100	16.0	20.3	3.73	20.42
6/9/2010	0.025	<0.100	16.0	26.2	2.42	26.33
6/14/2010	0.136	<0.100	15.6	27.1	1.53	27.34
6/15/2010	0.0290	<0.100	15.4	25.6	2.01	25.73
6/16/2010	0.0259	<0.100	14.9	28.1	2.50	28.23
6/21/2010	0.573	0.399	11.3	16.4	1.36	17.37
6/22/2010	0.261	<0.100	14.1	22.1	2.23	22.46
6/23/2010	0.0307	0.147	13.1	18.5	3.53	18.68
6/28/2010	0.0231	<0.100	17.0	25.7	4.01	25.82
6/29/2010	0.0415	<0.100	22.2	27.7	4.14	27.84
6/30/2010	0.0255	<0.100	17.9	24.9	4.71	25.03
7/5/2010	0.0208	0.135	16.7	24.2	4.03	24.36
7/6/2010	0.0200	<0.100	17.3	25.8	3.93	25.92
7/7/2010	0.0256	<0.100	16.7	27.1	4.63	27.23
7/12/2010	0.0293	<0.100	16.4	24.6	3.88	24.73
7/13/2010	0.0238	<0.100	16.4	27.4	4.40	27.52
7/14/2010	0.0505	<0.100	14.5	23.7	4.86	23.85

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
5/5/2010	0.0656	3.224	0.415	5.32	3.16	8.61
5/10/2010	0.103	4.797	0.194	1.38	2.23	6.28
5/11/2010	0.128	4.722	0.389	1.53	2.45	6.38
5/12/2010	0.107	5.013	0.379	1.46	2.63	6.58
5/17/2010	0.0714	4.329	0.168	1.60	2.26	6.00
5/18/2010	0.0916	3.928	0.369	2.87	2.47	6.89
5/19/2010	0.179	4.401	0.789	2.46	1.98	7.04
5/24/2010	0.0723	4.638	0.333	2.24	2.35	6.95
5/25/2010	0.0724	4.388	0.311	1.70	2.38	6.16
5/26/2010	0.0938	4.496	0.556	0.805	2.54	5.39
5/31/2010	0.0852	7.305	0.331	2.17	2.45	9.56
6/1/2010	0.108	5.192	0.867	1.09	2.39	6.39
6/2/2010	0.0911	5.709	0.254	<0.5	2.33	6.30
6/7/2010	0.0454	5.785	0.309	1.37	2.15	7.20
6/8/2010	0.0828	5.087	0.455	1.86	2.40	7.03
6/9/2010	0.0940	4.44	0.970	1.99	2.41	6.52
6/14/2010	0.0642	7.526	0.416	2.29	1.76	9.88
6/15/2010	0.0727	5.487	0.567	1.42	2.72	6.98
6/16/2010	0.0749	1.325	6.46	7.04	3.48	8.44
6/21/2010	0.186	4.054	0.383	1.56	1.69	5.80
6/22/2010	0.0582	4.372	0.106	1.20	2.26	5.63
6/23/2010	0.0660	4.024	0.406	1.10	2.06	5.19
6/28/2010	0.0534	4.957	0.287	0.913	2.38	5.92
6/29/2010	0.0696	5.12	0.298	0.931	2.40	6.12
6/30/2010	0.0442	6.166	1.02	1.12	2.51	7.33
7/5/2010	0.0276	7.382	0.161	0.804	2.26	8.21
7/6/2010	0.0318	7.248	0.210	0.922	2.29	8.20
7/7/2010	0.0397	6.12	0.256	0.927	2.42	7.09
7/12/2010	0.0500	4.71	0.334	1.02	2.00	5.78
7/13/2010	0.0486	5.291	0.249	0.984	2.17	6.32
7/14/2010	0.0454	4.995	0.750	1.34	1.90	6.38

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
7/19/2010	0.0419	<0.100	15.6	24.2	4.20	24.34
7/20/2010	0.0522	<0.100	12.2	19.2	3.43	19.35
7/21/2010	0.0494	<0.100	15.9	26.4	4.20	26.55
7/26/2010	0.0497	<0.100	15.5	24.0	4.44	24.15
7/27/2010	0.0382	<0.100	15.9	24.3	4.07	24.44
7/28/2010	0.135	<0.100	16.8	27.2	5.22	27.44
8/2/2010	0.0367	<0.100	17.1	26.5	4.60	26.64
8/3/2010	0.0651	<0.100	17.1	27.8	4.78	27.97
8/4/2010	0.146	<0.100	16.1	23.6	4.87	23.85
8/9/2010	0.0666	0.206	17.1	25.3	4.31	25.57
8/10/2010	0.0247	<0.100	15.7	29.0	4.90	29.12
8/11/2010	0.0381	<0.100	16.6	27.2	5.28	27.34
8/16/2010	0.0273	<0.100	18.4	26.5	4.21	26.63
8/17/2010	0.0363	0.265	19.0	28.1	4.79	28.40
8/18/2010	0.0337	0.185	18.7	28.0	4.77	28.22
8/23/2010	0.0654	0.371	12.3	14.2	2.42	14.64
8/24/2010	0.129	0.197	13.1	19.0	2.71	19.33
8/25/2010	0.0569	0.286	9.54	12.4	1.90	12.74
8/30/2010	0.0259	<0.100	17.8	30.2	4.14	30.33
8/31/2010	0.0258	<0.100	16.9	27.1	4.86	27.23
9/1/2010	0.0321	<0.100	17.6	30.0	4.96	30.13
9/6/2010	0.0326	<0.100	18.1	27.9	3.54	28.03
9/7/2010	0.0293	<0.100	17.5	22.0	3.20	22.13
9/8/2010	0.0420	<0.100	18.2	29.1	4.56	29.24
9/13/2010	0.0366	0.114	19.7	29.0	4.40	29.15
9/14/2010	0.0472	<0.100	19.4	30.0	4.73	30.15
9/15/2010	0.0362	<0.100	19.3	30.7	5.41	30.84
9/20/2010	0.0821	<0.100	19.4	28.9	4.78	29.08
9/21/2010	0.0611	<0.100	19.4	30.8	5.27	30.96
9/22/2010	0.0526	<0.100	18.7	27.7	5.03	27.85
9/27/2010	0.0434	<0.100	20.2	32.4	5.24	32.54

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
7/19/2010	0.0458	4.644	0.738	1.47	1.89	6.16
7/20/2010	0.0440	4.756	0.457	0.942	1.81	5.74
7/21/2010	0.0490	4.091	0.603	1.15	2.08	5.29
7/26/2010	0.0502	4.36	0.538	1.36	2.02	5.77
7/27/2010	0.0477	4.492	0.285	1.08	2.44	5.62
7/28/2010	0.0524	4.568	1.21	1.15	2.22	5.77
8/2/2010	0.0625	4.138	0.999	1.75	1.89	5.95
8/3/2010	0.0616	4.518	0.324	1.29	2.14	5.87
8/4/2010	0.0629	4.347	0.358	1.39	2.33	5.80
8/9/2010	0.0869	5.053	0.754	1.84	2.28	6.98
8/10/2010	0.0759	4.514	0.617	1.51	2.21	6.10
8/11/2010	0.0785	4.942	0.444	1.52	2.35	6.54
8/16/2010	0.0717	3.488	1.15	2.05	1.09	5.61
8/17/2010	0.0618	3.668	1.10	2.12	1.33	5.85
8/18/2010	0.0518	4.108	0.516	1.53	1.39	5.69
8/23/2010	0.0381	5.192	0.761	1.27	1.36	6.50
8/24/2010	0.0594	6.931	0.422	1.44	2.37	8.43
8/25/2010	0.0463	5.464	0.532	1.05	2.22	6.56
8/30/2010	0.0418	5.718	0.164	1.17	2.56	6.93
8/31/2010	0.0511	4.979	0.159	1.19	2.69	6.22
9/1/2010	0.0837	4.506	1.57	1.66	2.86	6.25
9/6/2010	0.0447	6.385	0.125	0.715	2.39	7.14
9/7/2010	0.0478	6.422	0.229	0.956	2.45	7.43
9/8/2010	0.0500	6.59	0.237	1.03	2.78	7.67
9/13/2010	0.0658	5.184	0.427	1.29	2.20	6.54
9/14/2010	0.0981	4.121	0.555	1.48	1.99	5.70
9/15/2010	0.0547	5.865	0.306	1.11	1.86	7.03
9/20/2010	0.0313	6.009	0.141	1.11	1.76	7.15
9/21/2010	0.0291	5.611	0.239	1.12	2.16	6.76
9/22/2010	0.0367	5.893	0.325	1.09	2.33	7.02
9/27/2010	0.0296	5.4	0.207	0.935	1.48	6.36

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/28/2010	0.0318	<0.100	19.7	30.8	4.76	30.93
9/29/2010	0.513	0.394	13.1	23.2	4.29	24.11
10/4/2010	0.336	<0.100	17.0	26.2	4.34	26.64
10/5/2010	0.450	<0.100	18.8	21.2	3.66	21.75
10/6/2010	0.309	<0.100	10.9	14.9	3.19	15.31
10/11/2010	0.248	<0.100	18.3	26.1	4.73	26.45
10/12/2010	0.276	<0.100	18.0	27.5	4.77	27.88
10/13/2010	0.169	<0.100	18.7	26.3	5.05	26.57
10/18/2010	0.318	0.234	17.4	22.7	3.88	23.25
10/19/2010	0.266	<0.100	16.6	20.1	4.48	20.47
10/20/2010	0.167	<0.100	16.0	28.9	5.01	29.17
10/25/2010	0.0215	<0.100	18.3	30.2	4.29	30.32
10/26/2010	0.0242	0.127	19.9	26.5	5.09	26.65
10/27/2010	0.0305	<0.100	17.3	29.9	4.57	30.03
11/1/2010	0.0280	0.165	20.6	30.4	4.14	30.59
11/2/2010	0.0227	0.114	20.5	31.9	5.22	32.04
11/3/2010	0.0299	<0.100	21.3	58.3	5.21	58.43
11/8/2010	0.0496	0.185	14.8	21.4	3.05	21.63
11/9/2010	0.102	0.404	12.4	17.9	2.43	18.41
11/10/2010	0.0738	<0.100	16.6	26.0	4.31	26.17
11/15/2010	0.0464	0.101	19.8	28.5	4.72	28.65
11/16/2010	0.0302	<0.100	18.4	31.3	5.70	31.43
11/17/2010	0.253	<0.100	11.4	19.1	3.47	19.45
11/22/2010	0.189	<0.100	19.0	29.3	4.04	29.59
11/23/2010	0.0457	<0.100	18.7	30.6	5.04	30.75
11/24/2010	0.106	<0.100	18.4	30.3	4.64	30.51
11/29/2010	0.193	<0.100	20.6	31.6	4.34	31.89
11/30/2010	0.114	<0.100	19.5	32.5	4.98	32.71
12/1/2010	0.0622	<0.100	20.0	33.3	5.19	33.46
12/6/2010	0.274	<0.100	20.2	26.7	4.61	27.07
12/7/2010	0.266	<0.100	20.5	27.5	5.93	27.87

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/28/2010	0.0404	4.48	0.262	1.07	2.06	5.59
9/29/2010	0.0435	5.02	0.169	0.876	1.20	5.94
10/4/2010	0.0277	5.832	0.181	0.753	2.34	6.61
10/5/2010	0.0351	6.345	0.182	1.01	2.52	7.39
10/6/2010	0.0234	4.477	0.157	0.728	1.61	5.23
10/11/2010	0.0223	6.368	0.171	0.765	2.35	7.16
10/12/2010	0.0181	5.902	0.298	0.942	2.49	6.86
10/13/2010	0.0397	6.15	1.17	1.2	2.79	7.39
10/18/2010	0.0188	5.421	0.201	0.930	1.90	6.37
10/19/2010	0.0200	6.02	0.133	0.938	2.30	6.98
10/20/2010	0.0208	6.829	0.224	0.993	2.68	7.84
10/25/2010	0.0289	6.551	0.108	0.825	2.60	7.40
10/26/2010	0.0325	5.347	0.147	0.902	2.84	6.28
10/27/2010	0.0433	5.947	0.121	1.08	2.94	7.07
11/1/2010	0.0269	6.213	0.133	0.922	2.52	7.16
11/2/2010	0.0309	6.309	0.126	0.931	2.62	7.27
11/3/2010	0.0344	5.936	0.121	1.05	2.56	7.02
11/8/2010	0.0769	4.523	0.922	2.24	1.51	6.84
11/9/2010	0.122	4.029	2.18	2.99	1.32	7.14
11/10/2010	0.0663	6.164	0.179	1.19	1.95	7.42
11/15/2010	0.0407	5.249	<0.1	0.995	2.05	6.28
11/16/2010	0.0508	5.629	0.110	1.09	2.23	6.77
11/17/2010	0.0477	4.632	0.280	1.13	1.38	5.81
11/22/2010	0.0450	6.605	<0.1	1.07	2.54	7.72
11/23/2010	0.0412	6.109	<0.1	1.06	2.71	7.21
11/24/2010	0.0377	5.692	<0.1	1.20	2.63	6.93
11/29/2010	0.0547	6.295	0.125	1.08	2.39	7.43
11/30/2010	0.118	5.742	2.41	3.58	3.37	9.44
12/1/2010	0.115	6.145	2.99	4.19	3.62	10.45
12/6/2010	0.0503	7.4897	0.170	1.31	2.23	8.85
12/7/2010	0.0370	8.653	<0.1	1.34	2.72	10.03

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2010

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
12/8/2010	0.130	<0.100	20.4	31.5	6.33	31.73
12/13/2010	0.398	0.832	5.40	9.09	1.60	10.32
12/14/2010	0.682	1.368	12.8	19.6	2.70	21.65
12/15/2010	0.646	0.624	14.3	20.6	3.57	21.87
12/20/2010	0.396	0.215	18.5	26.5	4.21	27.11
12/21/2010	0.409	<0.100	16.7	24.6	4.18	25.11
12/22/2010	0.340	<0.100	16.4	18.9	3.21	19.34
12/27/2010	0.440	<0.100	19.1	28.6	4.28	29.14
12/28/2010	0.259	<0.100	18.8	28.8	4.54	29.16
12/29/2010	0.116	0.165	16.7	30.0	4.57	30.28

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
12/8/2010	0.0432	9.0068	0.138	1.14	2.90	10.19
12/13/2010	0.0842	5.9158	0.776	1.83	0.971	7.83
12/14/2010	0.0625	6.6475	0.256	0.996	1.01	7.71
12/15/2010	0.0793	6.1807	0.385	1.43	1.44	7.69
12/20/2010	0.0561	6.1639	0.360	1.26	1.86	7.48
12/21/2010	0.0440	5.676	0.271	1.12	1.79	6.84
12/22/2010	0.0603	5.7397	0.310	1.36	1.97	7.16
12/27/2010	0.0396	6.2904	0.201	1.13	1.94	7.46
12/28/2010	0.0248	5.1452	<0.1	1.02	1.71	6.19
12/29/2010	0.0620	4.588	0.143	1.07	1.99	5.72

Table 10: Bucklin Point Infuent and Effluent Nutrients

Bucklin Point Oil& Grease 2010

Date	Influent Flow	Effluent Flow	Infleuent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/5/2010	21.19	21.19	21.08	<4.5
2/2/2010	21.12	21.12	25.88	<4.5
3/2/2010	26.00	26.00	20.95	<4.5
4/6/2010	41.05	41.05	18.78	<4.5
5/4/2010	22.17	22.17	22.61	<4.5
6/8/2010	16.81	16.81	10.7	<4.5
7/20/2010	16.99	16.99	17.92	<4.5
8/3/2010	15.78	15.78	31.93	<4.5
9/14/2010	14.41	14.41	29.33	<4.5
10/13/2010	14.29	14.29	27.09	<4.5
11/16/2010	15.99	15.99	23.26	<4.5
12/7/2010	15.53	15.53	31.82	<4.5

Field's Point Oil & Grease 2010

Date	Influent Flow	Effluent Flow	Infleuent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/5/2010	43.38	43.38	23.11	<4.5
2/2/2010	42.30	42.30	12.42	<4.5
3/3/2010	61.01	61.01	16.79	<4.5
4/6/2010	96.84	74.49	15.49	<4.5
5/4/2010	48.14	48.14	19.27	<4.5
6/8/2010	38.85	38.85	21.93	<4.5
7/13/2010	40.17	40.17	18.16	<4.5
8/3/2010	34.24	34.24	16.75	<4.5
9/14/2010	34.89	34.89	20.43	<4.5
10/5/2010	47.99	47.99	27.34	<4.5
11/16/2010	45.88	45.88	19.3	<4.5
12/7/2010	35.86	35.86	18.14	<4.5

Table 11: Bucklin Point and Field's Point Oil and Grease Data

Field's Point Effluent Dissolved Metals 2010
all results in ppb
MDL = Method Detection Limit

Date	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL	Al	Al MDL	Fe
1/5/2010	0.16	0.020	4.24	0.500	7.80	0.500	<0.5	0.500	17.60	0.500	0.04	0.010	26.10	1.000	5.15	2.000	127
2/2/2010	0.12	0.020	4.33	0.500	12.40	0.500	<0.5	0.500	19.00	0.500	0.09	0.010	22.90	1.000	7.28	2.000	113
3/2/2010	0.06	0.020	4.28	0.500	7.19	0.500	<0.5	0.500	11.20	0.500	0.04	0.010	19.80	1.000	9.37	2.000	166
4/6/2010	0.05	0.020	4.05	0.500	5.50	0.500	<0.5	0.500	18.50	0.500	0.06	0.010	15.80	1.000	6.91	2.000	164
5/4/2010	0.09	0.020	2.11	0.500	11.20	0.500	<0.5	0.500	20.20	0.500	0.06	0.010	17.70	1.000	5.99	2.000	161
6/8/2010	0.09	0.020	3.29	0.500	11.00	0.500	<0.5	0.500	13.10	0.500	0.06	0.010	23.30	1.000	5.47	2.000	182
7/13/2010	0.05	0.020	1.01	0.500	7.42	0.500	<0.5	0.500	12.90	0.500	0.04	0.010	2.23	1.000	4.11	2.000	130
8/3/2010	0.13	0.020	1.66	0.500	9.30	0.500	0.53	0.500	18.70	0.500	0.04	0.010	20.40	1.000	3.78	2.000	130
9/14/2010	0.21	0.020	2.59	0.500	8.48	0.500	<0.5	0.500	27.90	0.500	0.03	0.010	21.70	1.000	4.63	2.000	214
10/5/2010	0.11	0.020	2.32	0.500	7.61	0.500	<0.5	0.500	14.80	0.500	0.05	0.010	17.40	1.000	6.07	2.000	159
11/16/2010	0.13	0.020	2.75	0.500	10.50	0.500	<0.5	0.500	13.90	0.500	0.10	0.010	23.90	1.000	12.5	2.000	123
12/7/2010	0.10	0.020	1.09	0.500	11.50	0.500	<0.5	0.500	16.10	0.500	0.08	0.010	23.00	1.000	8.42	2.000	167

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average	0.11	2.81	9.16	0.50	16.99	0.06	19.52	6.64	153.00
yearly median	0.11	2.67	8.89	0.50	16.85	0.05	21.05	6.03	160.00
yearly minimum	0.05	1.01	5.50	0.53	11.20	0.03	2.23	3.78	113.00
yearly maximum	0.21	4.33	12.40	0.53	27.90	0.10	26.10	12.50	214.00

Table 12: Field's Point Effluent Dissolved Metals

Bucklin Point Dissolved Metals 2010
all results in ppb
MDL = Method Detection Limit

Date	Cd	Cd MDL*	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL*	Zn	Zn MDL	Al	Al MDL	Fe	Fe MDL
1/5/2010	0.054	0.020	4.87	0.500	9.2	0.500	<0.5	0.500	6.73	0.500	0.033	0.010	32.5	1.000	14.8	2.000	93.8	2.000
2/2/2010	0.04	0.020	4.04	0.500	7.19	0.500	<0.5	0.500	7.18	0.500	0.022	0.010	36.7	1.000	12.5	2.000	84.8	2.000
3/2/2010	0.035	0.020	3.79	0.500	5.15	0.500	<0.5	0.500	5.77	0.500	0.017	0.010	29.7	1.000	10.5	2.000	84.7	2.000
4/6/2010	0.032	0.020	3.34	0.500	5.24	0.500	<0.5	0.500	5.11	0.500	0.013	0.010	26.9	1.000	8.89	2.000	85.7	2.000
5/4/2010	0.032	0.020	1.86	0.500	6.04	0.500	<0.5	0.500	6.21	0.500	0.018	0.010	30	1.000	10.9	2.000	104	2.000
6/8/2010	0.034	0.020	2.86	0.500	6.13	0.500	<0.5	0.500	6.53	0.500	0.052	0.010	28.7	1.000	8.63	2.000	113	2.000
7/20/2010	0.048	0.020	1.17	0.500	6.81	0.500	<0.5	0.500	23.8	0.500	0.038	0.010	31	1.000	8.37	2.000	75.1	2.000
8/3/2010	0.034	0.020	1.27	0.500	7	0.500	<0.5	0.500	8.67	0.500	0.030	0.010	30.5	1.000	8.23	2.000	91.4	2.000
9/14/2010	<0.04	0.040	1.48	0.500	7.35	0.500	<0.5	0.500	7.3	0.500	<0.03	0.030	34.8	1.000	8.26	2.000	112	2.000
10/5/2010	0.046	0.040	2.09	0.500	7.29	0.500	<0.5	0.500	6.82	0.500	<0.03	0.030	31.1	1.000	13.6	2.000	98.4	2.000
11/16/2010	<0.04	0.040	2.70	0.500	8.31	0.500	<0.5	0.500	7.46	0.500	<0.03	0.030	43.1	1.000	11	2.000	82.6	2.000
12/7/2010	<0.04	0.040	1.71	0.500	9.68	0.500	<0.5	0.500	7.91	0.500	0.040	0.030	41.4	1.000	17.1	2.000	90.8	2.000

*MDL's for Cadmium and Silver changed in October 2010

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average concentration	0.04	2.60	7.12	0.50	8.29	0.03	33.03	11.07	93.0
yearly median concentration	0.03	2.40	7.10	0.50	7.00	0.03	31.05	10.70	91.1
yearly minimum	0.03	1.17	5.15	0.00	5.11	0.01	26.90	8.23	75.1
yearly maximum concentration	0.05	4.87	9.68	0.00	23.80	0.05	43.10	17.10	113.0

Table 13: Bucklin Point Effluent Dissolved Metals

Field's Point WWTF Bioassay Results - 2010 *Americamysis bahia*						
Acute	**1st Quarter, 2010**			**2nd Quarter, 2010**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
LC_{50}	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A
	3rd Quarter, 2010			**4th Quarter, 2010**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
LC_{50}	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A

* NOTE - % indicates Percent Effluent

** No permit limit exists for A-NOEC

LC_{50} - LC_{50} is the effluent concentration that causes 50% mortality during the acute toxicity test duration.

A-NOEC - No observable effect concentration: Highest concentration of the effluent in which 90% or more of the test animals survive

Acute Test - Continuous exposure to effluent for 48 hours

Field's Point WWTF Bioassay Results - 2010 *Arbacia punctulata*						
Chronic	**1st Quarter, 2010**			**2nd Quarter, 2010**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	13%	Required	Y	100%	Required	Y
	3rd Quarter, 2010			**4th Quarter, 2010**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	100%	Required	Y	100%	Required	Y

* NOTE - % indicates Percent Effluent

C-NOEC - Highest concentration of effluent with no observed effect on fertilization rates

Chronic test - Tests for sublethal effects of effluent on specifically on fertilization rates of *A. punculata* eggs. Exposure rate is 60 minutes

Bucklin Point WWTF Bioassay Results - 2010 *Americamysis bahia*						
Acute	**1st Quarter, 2010**					
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
LC_{50}	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A
	3rd Quarter, 2010					
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
LC_{50}	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A

* NOTE - % indicates Percent Effluent

** No permit limit exists for A-NOEC

LC_{50} - LC_{50} is the effluent concentration that causes 50% mortality during the acute toxicity test

A-NOEC - No observable effect concentration: Highest concentration of the effluent in which 90% or more of the test animals survive

Acute Test - Continuous exposure to effluent for 48 hours

Bucklin Point WWTF Bioassay Results - 2010 *Arbacia punctulata*						
Chronic	**1st Quarter, 2010**					
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	25%	50%	N	100%	50%	Y
	3rd Quarter, 2010					
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	50%	50%	Y	100%	50%	Y

* NOTE - % indicates Percent Effluent

C-NOEC - Highest concentration of effluent with no observed effect on fertilization rates

Chronic test - Tests for sublethal effects of effluent on specifically on fertilization rates of *A. punculata* eggs. Exposure rate is 60 minutes

Field's Point Dry Sludge Analysis for Metals 2010

	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper		Molybdenum		Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
Date	**Tons**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**
1/5/2010	38.08	8.45		4.41		2.11		8.45		27.66		202.27		21.11		45.39		74.32		3.63		628.96				9.31	
1/19/2010	30.61	7.88		3.39		1.97		5.12		57.70		503.39		19.69		62.83		103.40		1.99		662.33				9.29	
Monthly Avg:	**34.35**	**8.16**		**3.90**		**2.04**		**6.78**		**42.68**		**352.83**		**20.40**		**54.11**		**88.86**		**2.81**		**645.65**		**4.16**		**9.30**	
Monthly Total in lbs.	**1374997**		**11.22**		**5.36**		**2.81**		**9.33**		**58.69**		**485.14**		**28.06**		**74.40**		**122.18**		**3.86**		**887.76**		**5.72**		**12.79**
2/2/2010	28.41	7.37		2.69		1.84		4.05		34.46		191.08		18.43		55.10		63.39		0.94		484.62				6.22	
2/16/2010	27.92	7.16		1.86		1.79		4.83		49.96		186.41		17.91		65.36		43.87		2.45		527.36				6.15	
Monthly Avg:	**28.17**	**7.27**		**2.28**		**1.82**		**4.44**		**42.21**		**188.75**		**18.17**		**60.23**		**53.63**		**1.70**		**505.99**		**4.16**		**6.19**	
Monthly Total in lbs.	**1381675**		**10.04**		**3.14**		**2.51**		**6.14**		**58.32**		**260.79**		**25.11**		**83.22**		**74.10**		**2.34**		**699.12**		**5.75**		**8.55**
3/2/2010	18.17	6.91		2.69		1.50		3.91		56.34		199.98		15.03		39.67		109.23		0.75		478.85				7.71	
3/16/2010	17.53	6.78		2.78		1.69		2.88		58.62		286.33		16.94		40.66		111.65		1.42		510.64				4.77	
Monthly Avg:	**17.85**	**6.84**		**2.74**		**1.60**		**3.39**		**57.48**		**243.16**		**15.98**		**40.16**		**110.44**		**1.09**		**494.75**		**4.16**		**6.24**	
Monthly Total in lbs.	**1216621**		**8.33**		**3.33**		**1.94**		**4.13**		**69.93**		**295.83**		**19.45**		**48.86**		**134.37**		**1.32**	0.00	**601.92**		**5.06**		**7.59**
4/6/2010	23.06	10.59		4.02		1.54		4.14		74.45		458.54		15.35		68.77		118.97		0.77		668.84				4.65	
4/20/2010	19.01	6.69		2.27		1.39		3.20		45.40		291.37		13.93		35.24		68.11		0.70		478.28				2.19	
Monthly Avg:	**21.03**	**8.64**		**3.15**		**1.46**		**3.67**		**59.93**		**374.95**		**14.64**		**52.00**		**93.54**		**0.74**		**573.56**		**4.16**		**3.42**	
Monthly Total in lbs.	**1271163**		**10.98**		**4.00**		**1.86**		**4.67**		**76.18**		**476.62**		**18.61**		**66.11**		**118.90**		**0.93**		**729.09**		**5.29**		**4.35**
5/4/2010	43.87	7.74		1.59		1.89		7.18		43.26		258.41		18.89		57.05		105.02		0.94		591.04				3.50	
5/18/2010	26.87	6.80		1.42		2.06		8.45		44.94		396.42		20.61		57.72		114.41		1.03		628.55				2.92	
Monthly Avg:	**35.37**	**7.27**		**1.51**		**1.98**		**7.82**		**44.10**		**327.41**		**19.75**		**57.38**		**109.72**		**0.99**		**609.79**		**4.16**		**3.21**	
Monthly Total in lbs.	**1436449**		**10.45**		**2.16**		**2.84**		**11.23**		**63.35**		**470.31**		**28.37**		**82.43**		**157.60**		**1.41**		**875.94**		**5.98**		**4.61**
6/1/2010	27.19	10.38		5.77		1.82		7.65		95.22		457.34		18.21		84.84		237.77		3.71		930.15		3.88		3.78	
6/15/2010	21.55	9.06		3.65		2.06		4.33		70.04		482.42		20.60		50.67		208.25		1.87		766.27		4.23		3.85	
Monthly Avg:	**24.37**	**9.72**		**4.71**		**1.94**		**5.99**		**82.63**		**469.88**		**19.40**		**67.76**		**223.01**		**2.79**		**848.21**		**4.05**		**3.82**	
Monthly Total in lbs.	**1182095**		**11.49**		**5.57**		**2.29**		**7.08**		**97.67**		**555.44**		**22.94**		**80.09**		**263.62**		**3.30**		**1002.66**		**4.79**		**4.51**
7/6/2010	15.18	20.98		3.30		1.98		3.56		88.26		595.43		19.79		53.63		198.28		4.39		761.25		4.66		9.71	
7/20/2010	25.58	16.00		3.41		2.05		3.90		77.34		578.75		20.52		52.52		264.86		1.03		790.68		3.98		9.47	
Monthly Avg:	**20.38**	**18.49**		**3.36**		**2.02**		**3.73**		**82.80**		**587.09**		**20.15**		**53.07**		**231.57**		**2.71**		**775.97**		**4.32**		**9.59**	
Monthly Total in lbs.	**1131673**		**20.92**		**3.80**		**2.28**		**4.22**		**93.70**		**664.39**		**22.81**		**60.06**		**262.06**		**3.07**		**878.14**		**4.89**		**10.85**
8/3/2010	18.49	14.21		2.99		2.37		6.40		72.73		593.45		23.69		86.00		185.26		3.44		913.51		4.69		11.56	
8/17/2010	13.12	10.34		2.64		2.03		3.04		42.78		378.36		20.28		52.52		129.57		1.78		637.29		4.57		9.93	
Monthly Avg:	**15.80**	**12.28**		**2.82**		**2.20**		**4.72**		**57.76**		**485.90**		**21.98**		**69.26**		**157.41**		**2.61**		**775.40**		**4.63**		**10.75**	
Monthly Total in lbs.	**1049187**		**12.88**		**2.95**		**2.31**		**4.95**		**60.60**		**509.80**		**23.06**		**72.66**		**165.16**		**2.74**		**813.54**		**4.85**		**11.27**
9/7/2010	25.10	7.65		3.93		2.07		10.75		83.13		525.25		20.68		101.53		207.00		3.08		879.07		4.34		10.50	
9/21/2010	26.01	24.34		8.45		2.67		4.01		139.08		963.10		26.75		100.56		144.69		7.11		1341.54		5.21		4.54	
Monthly Avg:	**26.01**	**15.99**		**6.19**		**2.37**		**7.38**		**111.10**		**744.17**		**23.71**		**101.05**		**175.85**		**5.10**		**1110.31**		**4.77**		**7.52**	
Monthly Total in lbs.	**1093737**		**17.49**		**6.77**		**2.59**		**8.07**		**121.52**		**813.93**		**25.93**		**110.52**		**192.33**		**5.57**		**1214.38**		**5.22**		**8.22**
10/5/2010	24.79	11.82		2.94		2.00		4.01		64.89		365.29		20.03		82.51		111.95		3.70		687.52		4.43		2.66	
10/19/2010	25.60	13.22		2.58		2.10		3.15		64.41		349.09		20.98		41.96		95.25		1.17		591.20		4.56		4.82	
Monthly Avg:	**25.19**	**12.52**		**2.76**		**2.05**		**3.58**		**64.65**		**357.19**		**20.50**		**62.23**		**103.60**		**2.44**		**639.36**		**4.49**		**3.74**	
Monthly Total in lbs.	**1154995**		**14.46**		**3.19**		**2.37**		**4.13**		**74.67**		**412.56**		**23.68**		**71.88**		**119.66**		**2.81**		**738.46**		**5.19**		**4.32**
11/2/2010	23.86	8.87		1.71		1.71		2.56		69.97		323.73		17.07		54.27		52.39		1.98		516.57		3.40		8.56	
11/16/2010	7.60	12.20		2.14		1.65		3.79		38.07		351.54		16.48		44.33		68.23		2.88		517.51		3.65		5.56	
Monthly Avg:	**15.73**	**10.54**		**1.93**		**1.68**		**3.18**		**54.02**		**337.64**		**16.77**		**49.30**		**60.31**		**2.43**		**517.04**		**3.53**		**7.06**	
Monthly Total in lbs.	**1110870**		**11.70**		**2.14**		**1.86**		**3.53**		**60.01**		**375.07**		**18.63**		**54.77**		**67.00**		**2.70**		**574.37**		**3.92**		**7.84**
12/7/2010	22.42	8.26		2.15		1.62		3.56		75.76		428.68		16.19		43.55		71.23		3.29		683.49		3.31		8.68	
12/21/2010	16.55	10.59		1.95		1.71		6.66		84.72		917.88		17.08		73.96		87.45		1.76		818.47		3.35		7.88	
Monthly Avg:	**19.49**	**9.42**		**2.05**		**1.66**		**5.11**		**80.24**		**673.28**		**16.63**		**58.75**		**79.34**		**2.53**		**750.98**		**3.33**		**8.28**	
Monthly Total in lbs.	**1174949**		**11.07**		**2.41**		**1.95**		**6.01**		**94.28**		**791.07**		**19.54**		**69.03**		**93.22**		**2.97**		**882.37**		**3.91**		**9.73**
YEARLY TOTAL LBS	**14578412**		**151.04**		**44.82**		**27.62**		**73.48**		**928.91**		**6110.96**		**276.19**		**874.03**		**1770.19**		**33.03**		**9897.74**		**60.56**		**94.64**

Table 16: Field's Point Sludge Analysis

NM- Not Measured Yearly Average concentrations were used to calculate monthly pounds when no data was available

Field's Point Metals Loading from Final Sludge (lbs/yr)

Year	Arsenic	Beryllium	Cadmium	Copper	Chromium	Lead	Mercury	Molybdeum	Nickel	Selenium	Silver	Zinc	Cyanide
1994			202.7	13386.0	2628.1	4297.2	74.0		4626.2		1113.9	15683.7	281.0
1995			203.5	14962.8	2824.5	3700.2	55.0		4202.3		818.1	13071.5	189.3
1996	132.3	4.9	186.4	12461.8	3473.3	3389.6	47.8	205.1	3860.3		757.7	11615.1	239.8
1997			189.7	13674.5	3654.7	4122.1	53.9		3400.3		867.9	12323.5	189.6
1998	44.6		208.7	11207.8	2655.5	2879.9	36.9		2188.6		698.3	10101.5	127.1
1999	35.4		233.3	13490.2	2315.0	2516.8	28.8	164.7	1887.7	74.9	677.4	11549.1	90.1
2000	42.4	32.3	352.8	15019.4	1747.7	2544.9	12.0	84.1	1191.9	23.5	384.0	6482.0	49.6
2001	88.1	16.9	205.7	15120.0	2379.0	2611.1	26.3	204.6	2008.3	282.0	634.9	13297.6	111.0
2002	84.9	7.6	154.5	15758.0	1757.0	3156.0	27.9	190.1	1555.0	190.4	651.5	15148.0	79.6
2003	53.6	9.7	183.8	12993.4	1976.2	3008.8	28.4	98.1	1485.4	118.2	466.3	12773.9	60.8
2004	43.4	12.1	221.0	20910.1	3774.2	2608.5	23.8	103.2	2472.9	163.4	501.2	14645.1	95.9
2005	79.5	13.9	250.7	30477.9	4970.6	2867.9	29.6	190.3	3092.9	167.2	478.5	20592.3	78.6
2006	85.2	11.7	131.8	5889.2	1448.6	2616.6	16.7	193.4	1181.6	136.4	452.8	12290.6	56.9
2007	18.5	12.2	64.5	3862.6	612.1	1033.7	6.8	157.1	526.2	41.8	173.4	6833.0	67.5
2008	32.9	48.3	66.7	5426.0	856.5	1793.2	74.0	294.3	841.1	39.2	195.7	9914.5	113.8
2009	38.0	33.0	82.5	4792.0	919.6	1771.9	8.4	300.2	769.1	26.5	132.2	10442.8	121.1
2010	44.8	27.6	73.5	6111.0	928.9	1770.2	60.6	276.2	874.0	33.0	151.0	9897.7	94.6

Table 17: Field's Point Sludge Summary

Bucklin Point Dry Sludge Analysis for Metals 2010

	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper		Molybdenum		Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
Date	**Tons**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**	**ppm**	**lbs**
1/5/2010	6.62	16.47		5.07		1.83		3.48		181.92		737.95		18.30		73.03		107.80		4.92		1013.39		1.60		3.62	
1/19/2010	7.57	14.49		4.81		1.65		2.96		169.45		740.86		16.47		72.13		101.77		4.28		941.43				3.50	
Monthly Avg:	**7.10**	**15.48**		**4.94**		**1.74**		**3.22**		**175.69**		**739.40**		**17.38**		**72.58**		**104.78**		**4.60**		**977.41**		**1.60**		**3.56**	
Monthly Total in lbs.	**320360**		**4.96**		**1.58**		**0.56**		**1.03**		**56.28**		**236.87**		**5.57**		**23.25**		**33.57**		**1.47**		**313.12**		**0.51**		**1.14**
2/2/2010	NM	11.97		4.86		1.81		2.72		182.53		633.40		18.14		68.58		98.88		2.63		941.85				4.77	
2/16/2010	NM	11.61		4.95		1.93		2.90		174.33		558.78		19.35		65.01		95.00		3.31		895.05				5.10	
Monthly Avg:	**#DIV/0!**	**11.79**		**4.91**		**1.87**		**2.81**		**178.43**		**596.09**		**18.75**		**66.80**		**96.94**		**2.97**		**918.45**		**3.52**		**4.94**	
Monthly Total in lbs.	**279640**		**3.30**		**1.37**		**0.52**		**0.79**		**49.90**		**166.69**		**5.24**		**18.68**		**27.11**		**0.83**		**256.83**		**0.99**		**1.38**
3/2/2010	6.90	10.70		4.57		1.60		2.72		170.27		613.04		15.97		65.65		103.18		3.23		930.42				4.75	
3/16/2010		13.76		4.74		1.74		3.48		172.40		685.42		17.41		67.91		114.24		2.94		1000.61				8.87	
Monthly Avg:		**12.23**		**4.66**		**1.67**		**3.10**		**171.33**		**649.23**		**16.69**		**66.78**		**108.71**		**3.09**		**965.51**		**3.52**		**6.81**	
Monthly Total in lbs.	**322440**		**3.94**		**1.50**		**0.54**		**1.00**		**55.25**		**209.34**		**5.38**		**21.53**		**35.05**		**0.99**		**311.32**		**1.14**		**2.20**
4/6/2010	7.99	14.26		4.93		1.76		3.52		172.54		780.12		17.61		85.39		121.13		2.39		970.44				4.20	
4/20/2010	7.65	12.87		5.40		1.67		3.68		158.15		776.39		16.72		78.07		125.55		2.02		961.13				3.03	
Monthly Avg:	**7.82**	**13.57**		**5.17**		**1.72**		**3.60**		**165.35**		**778.26**		**17.16**		**81.73**		**123.34**		**2.21**		**965.79**		**3.52**		**3.62**	
Monthly Total in lbs.	**351840**		**4.77**		**1.82**		**0.60**		**1.27**		**58.18**		**273.82**		**6.04**		**28.76**		**43.40**		**0.78**		**339.80**		**1.24**		**1.27**
5/4/2010	7.87	12.35		4.70		1.58		3.01		141.88		613.92		15.84		61.91		102.61		2.26		817.40		3.62		3.83	
5/18/2010	7.66	12.20		3.96		1.77		2.65		191.03		627.74		17.69		66.86		85.08		2.58		769.94		3.52		1.61	
Monthly Avg:		**12.28**		**4.33**		**1.68**		**2.83**		**166.45**		**620.83**		**16.76**		**64.39**		**93.84**		**2.42**		**793.67**		**3.57**		**2.72**	
Monthly Total in lbs.	**348560**		**4.28**		**1.51**		**0.58**		**0.99**		**58.02**		**216.40**		**5.84**		**22.44**		**32.71**		**0.84**		**276.64**		**1.24**		**0.95**
6/1/2010	6.52	10.89		5.02		1.85		3.32		249.27		731.18		18.46		83.27		110.78		3.58		980.08		3.86		3.65	
6/15/2010	8.13	11.93		5.19		1.59		3.82		228.28		688.83		15.91		78.59		118.83		3.39		970.88		3.55		3.37	
Monthly Avg:	**7.33**	**11.41**		**5.11**		**1.72**		**3.57**		**238.77**		**710.00**		**17.19**		**80.93**		**114.81**		**3.49**		**975.48**		**3.70**		**3.51**	
Monthly Total in lbs.	**391780**		**4.47**		**2.00**		**0.67**		**1.40**		**93.55**		**278.17**		**6.73**		**31.71**		**44.98**		**1.37**		**382.17**		**1.45**		**1.38**
7/6/2010	7.78	14.41		5.03		1.68		3.02		191.03		771.99		16.76		70.38		116.80		2.70		951.62		3.55		3.33	
7/20/2010	7.08	13.71		5.05		1.71		2.74		163.64		891.21		17.14		70.26		129.20		2.21		976.72		3.57		3.78	
Monthly Avg:	**7.43**	**14.06**		**5.04**		**1.69**		**2.88**		**177.34**		**831.60**		**16.95**		**70.32**		**123.00**		**2.46**		**964.17**		**3.56**		**3.56**	
Monthly Total in lbs.	**354200**		**4.98**		**1.79**		**0.60**		**1.02**		**62.81**		**294.55**		**6.00**		**24.91**		**43.57**		**0.87**		**341.51**		**1.26**		**1.26**
8/3/2010		16.07		5.21		1.85		2.77		134.62		729.25		18.47		89.75		116.71		2.88		1050.75		3.86		8.39	
8/17/2010	6.83	16.84		5.07		1.74		2.60		127.26		705.76		17.36		73.09		110.42		3.39		961.84		3.77		8.61	
Monthly Avg:	**6.83**	**16.45**		**5.14**		**1.79**		**2.69**		**130.94**		**717.50**		**17.91**		**81.42**		**113.56**		**3.14**		**1006.30**		**3.82**		**8.50**	
Monthly Total in lbs.	**311080**		**5.12**		**1.60**		**0.56**		**0.84**		**40.73**		**223.20**		**5.57**		**25.33**		**35.33**		**0.98**		**313.04**		**1.19**		**2.64**
9/7/2010	8.08	19.00		6.26		1.83		3.11		147.22		680.37		18.27		99.36		137.72		4.84		1042.02		3.46		3.19	
9/28/2010	6.97	8.39		2.14		1.91		5.53		76.47		305.67		19.07		60.26		96.87		2.57		577.98		3.83		1.51	
Monthly Avg:	**7.52**	**13.69**		**4.20**		**1.87**		**4.32**		**111.84**		**493.02**		**18.67**		**79.81**		**117.29**		**3.71**		**810.00**		**3.64**		**2.35**	
Monthly Total in lbs.	**368680**		**5.05**		**1.55**		**0.69**		**1.59**		**41.23**		**181.77**		**6.88**		**29.42**		**43.24**		**1.37**		**298.63**		**1.34**		**0.87**
10/5/2010	8.11	16.26		6.25		1.81		2.71		116.33		829.87		18.06		90.86		106.04		5.17		993.17		3.75		2.27	
10/19/2010	7.00	16.99		5.97		1.75		2.10		100.74		794.37		17.52		84.80		105.47		4.52		977.81		3.90		0.42	
Monthly Avg:	**7.55**	**16.63**		**6.11**		**1.78**		**2.41**		**108.54**		**812.12**		**17.79**		**87.83**		**105.75**		**4.85**		**985.49**		**3.83**		**1.35**	
Monthly Total in lbs.	**352740**		**5.86**		**2.16**		**0.63**		**0.85**		**38.29**		**286.47**		**6.28**		**30.98**		**37.30**		**1.71**		**347.62**		**1.35**		**0.47**
11/2/2010	7.09	17.32		5.89		1.97		29.53		93.30		762.78		19.68		93.11		94.68		4.74		991.90		4.26		3.85	
11/16/2010	6.09	15.22		5.96		0.53		3.11		100.96		1028.84		31.06		93.50		103.13		6.62		1042.20		3.83		3.72	
Monthly Avg:	**6.59**	**16.27**		**5.93**		**1.25**		**16.32**		**97.13**		**895.81**		**25.37**		**93.31**		**98.91**		**5.68**		**1017.05**		**4.04**		**3.79**	
Monthly Total in lbs.	**337500**		**5.49**		**2.00**		**0.42**		**5.51**		**32.78**		**302.34**		**8.56**		**31.49**		**33.38**		**1.92**		**343.26**		**1.36**		**1.28**
12/7/2010	7.02	16.93		5.73		1.86		3.35		93.77		1214.31		18.60		89.67		105.86		4.24		1252.82		4.02		3.97	
12/21/2010	6.99	17.37		5.21		1.75		3.68		93.50		1163.58		17.54		83.85		105.78		4.51		1242.17		3.89		9.40	
Monthly Avg:	**7.00**	**17.15**		**5.47**		**1.81**		**3.52**		**93.63**		**1188.95**		**18.07**		**86.76**		**105.82**		**4.38**		**1247.50**		**3.95**		**6.69**	
Monthly Total in lbs.	**341140**		**5.85**		**1.87**		**0.62**		**1.20**		**31.94**		**405.60**		**6.17**		**29.60**		**36.10**		**1.49**		**425.57**		**1.35**		**2.28**
YEARLY TOTAL LBS	**4079960**		**58.08**		**20.74**		**6.99**		**17.47**		**618.95**		**3075.21**		**74.27**		**318.10**		**445.74**		**14.61**		**3949.52**		**14.42**		**17.11**

Table 18: Bucklin Point Sludge Analysis

NM- Not Measured Yearly Average Concentrations were used to calculate monthly pounds when no data was available

Bucklin Point Metals Loading from Final Sludge (lbs/yr)

Year	Arsenic	Beryllium	Cadmium	Copper	Chromium	Lead	Mercury	Molybdeum	Nickel	Selenium	Silver	Zinc	Cyanide
1994	16.2		35.4	3839.7	655.5	723.4	84.2		627.6		171.3	4234.5	64.3
1995			35.8	4306.7	681.0	551.8	55.9		539.8		126.2	3495.8	57.6
1996													
1997	16.0		52.9	4589.3	1177.6	1183.6	16.0		1074.4		339.8	4349.4	58.9
1998	12.2		44.8	4743.4	1263.0	1128.3	12.2		977.8		463.4	5838.9	27.7
1999	11.1		44.4	3906.8	993.6	930.3	11.1		716.9		473.0	5945.8	24.3
2000	38.3		60.8	5164.7	1304.1	1073.2	16.8	171.8	1345.4		467.7	7104.0	24.8
2001	57.8	13.6	38.6	4132.9	1003.3	900.1	12.0	167.4	985.3	44.4	371.2	6336.5	33.6
2002	43.7	6.1	27.1	4565.0	755.0	1034.3	18.0	148.9	840.7	37.6	385.8	7226.0	13.3
2003	30.2	6.6	29.2	3439.4	2669.3	772.3	10.0	69.3	868.1	32.1	273.0	5973.1	8.9
2004	27.6	7.3	45.5	3733.7	851.5	739.0	11.6	62.0	794.7	36.1	225.0	6759.2	7.6
2005	18.8	5.9	30.9	4468.6	969.5	682.1	8.9	77.4	781.5	32.5	153.0	5469.7	10.3
2006	25.5	2.0	24.4	3657.0	2398.8	713.0	6.8	37.1	1089.2	33.9	165.4	4953.9	12.0
2007	11.2	5.2	25.7	4676.1	4143.3	633.5	9.3	70.7	1389.7	14.4	177.5	5635.0	22.8
2008	8.9	14.1	23.3	4209.5	5594.6	585.4	36.0	84.7	1568.6	17.4	116.8	5519.0	27.4
2009	18.1	8.2	20.6	3132.4	1054.3	516.6	4.6	79.6	438.2	14.6	62.5	4895.0	19.3
2010	20.7	7.0	17.5	3075.2	619.0	445.7	14.4	74.3	318.1	14.6	58.1	3949.5	17.1

Table 19: Bucklin Point Sludge Summary

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	<1.0	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	3.97	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	2.58	ppb
1/5/2010	Toluene	1.34	ppb
1/5/2010	Trichlorethene	1.91	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb
1/17/2010	1,1-Dichloroethane	<1.0	ppb
1/17/2010	1,1-Dichloroethene	<1.0	ppb
1/17/2010	1,2-Dichlorobenzene	<1.0	ppb
1/17/2010	1,2-Dichloroethane	<1.0	ppb
1/17/2010	1,2-Dichloropropane	<1.0	ppb
1/17/2010	1,3-Dichlorobenzene	<1.0	ppb
1/17/2010	1,4-Dichlorobenzene	<1.0	ppb
1/17/2010	111-Trichloroethane	<1.0	ppb
1/17/2010	1122Tetrachlorethane	<1.0	ppb
1/17/2010	112-Trichloroethane	<1.0	ppb
1/17/2010	Benzene	<1.0	ppb
1/17/2010	Bromodichloromethane	<1.0	ppb
1/17/2010	Bromoform	<5.0	ppb
1/17/2010	Bromomethane	<1.0	ppb
1/17/2010	CarbonTetrachloride	<1.0	ppb
1/17/2010	Chlorobenzene	<1.0	ppb
1/17/2010	Chloroethane	<1.0	ppb
1/17/2010	Chloroform	1.18	ppb
1/17/2010	Chloromethane	<1.0	ppb
1/17/2010	cis13Dichloropropene	<1.0	ppb
1/17/2010	Dibromochloromethane	<1.0	ppb
1/17/2010	Ethylbenzene	<1.0	ppb
1/17/2010	Methylene Chloride	<1.0	ppb
1/17/2010	o-xylene	<1.0	ppb
1/17/2010	p-m xylene	<2.0	ppb
1/17/2010	T-1,2-Dichloroethene	<1.0	ppb
1/17/2010	T-13-Dichloropropene	<1.0	ppb
1/17/2010	Tetrachlorethene	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	1.92	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	1.92	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	<1.0	ppb
1/5/2010	Toluene	<1.0	ppb
1/5/2010	Trichlorethene	<1.0	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/17/2010	Toluene	<1.0	ppb
1/17/2010	Trichlorethene	<1.0	ppb
1/17/2010	Vinyl Chloride	<1.0	ppb
1/18/2010	1,1-Dichloroethane	<1.0	ppb
1/18/2010	1,1-Dichloroethene	<1.0	ppb
1/18/2010	1,2-Dichlorobenzene	<1.0	ppb
1/18/2010	1,2-Dichloroethane	<1.0	ppb
1/18/2010	1,2-Dichloropropane	<1.0	ppb
1/18/2010	1,3-Dichlorobenzene	<1.0	ppb
1/18/2010	1,4-Dichlorobenzene	<1.0	ppb
1/18/2010	111-Trichloroethane	<1.0	ppb
1/18/2010	1122Tetrachlorethane	<1.0	ppb
1/18/2010	112-Trichloroethane	<1.0	ppb
1/18/2010	Benzene	<1.0	ppb
1/18/2010	Bromodichloromethane	<1.0	ppb
1/18/2010	Bromoform	<5.0	ppb
1/18/2010	Bromomethane	<1.0	ppb
1/18/2010	CarbonTetrachloride	<1.0	ppb
1/18/2010	Chlorobenzene	<1.0	ppb
1/18/2010	Chloroethane	<1.0	ppb
1/18/2010	Chloroform	1.7	ppb
1/18/2010	Chloromethane	<1.0	ppb
1/18/2010	cis13Dichloropropene	<1.0	ppb
1/18/2010	Dibromochloromethane	<1.0	ppb
1/18/2010	Ethylbenzene	<1.0	ppb
1/18/2010	Methylene Chloride	1.01	ppb
1/18/2010	o-xylene	<1.0	ppb
1/18/2010	p-m xylene	<2.0	ppb
1/18/2010	T-1,2-Dichloroethene	<1.0	ppb
1/18/2010	T-13-Dichloropropene	<1.0	ppb
1/18/2010	Tetrachlorethene	<1.0	ppb
1/18/2010	Toluene	<1.0	ppb
1/18/2010	Trichlorethene	<1.0	ppb
1/18/2010	Vinyl Chloride	<1.0	ppb
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	1.19	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	<1.0	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	5.63	ppb
2/2/2010	Chloromethane	<1.0	ppb
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	<1.0	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	1.04	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	2.23	ppb
2/2/2010	Chloromethane	1.12	ppb
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	3.35	ppb
2/2/2010	Toluene	2.15	ppb
2/2/2010	Trichlorethene	2.61	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	1.22	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	3.75	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	2.97	ppb
3/2/2010	Toluene	1.28	ppb
3/2/2010	Trichlorethene	1.78	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	1.15	ppb
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	6.18	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	<1.0	ppb
2/2/2010	Toluene	<1.0	ppb
2/2/2010	Trichlorethene	<1.0	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	<1.0	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	1.52	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	1.15	ppb
3/2/2010	Toluene	<1.0	ppb
3/2/2010	Trichlorethene	<1.0	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	<1.0	ppb
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	1.9	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	3.24	ppb
4/6/2010	Toluene	1.16	ppb
4/6/2010	Trichlorethene	1.85	ppb
4/6/2010	TTO	13.58	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb
7/13/2010	1,1-Dichloroethane	<1.0	ppb
7/13/2010	1,1-Dichloroethene	<1.0	ppb
7/13/2010	1,2-Dichlorobenzene	<1.0	ppb
7/13/2010	1,2-Dichloroethane	<1.0	ppb
7/13/2010	1,2-Dichloropropane	<1.0	ppb
7/13/2010	1,3-Dichlorobenzene	<1.0	ppb
7/13/2010	1,4-Dichlorobenzene	1.47	ppb
7/13/2010	111-Trichloroethane	<1.0	ppb
7/13/2010	1122Tetrachlorethane	<1.0	ppb
7/13/2010	112-Trichloroethane	<1.0	ppb
7/13/2010	Benzene	<1.0	ppb
7/13/2010	Bromodichloromethane	<1.0	ppb
7/13/2010	Bromoform	<5.0	ppb
7/13/2010	Bromomethane	<1.0	ppb
7/13/2010	CarbonTetrachloride	<1.0	ppb
7/13/2010	Chlorobenzene	<1.0	ppb
7/13/2010	Chloroethane	<1.0	ppb
7/13/2010	Chloroform	7.14	ppb
7/13/2010	Chloromethane	<1.0	ppb
7/13/2010	cis13Dichloropropene	<1.0	ppb
7/13/2010	Dibromochloromethane	<1.0	ppb
7/13/2010	Ethylbenzene	<1.0	ppb
7/13/2010	Methylene Chloride	<1.0	ppb
7/13/2010	o-xylene	<1.0	ppb
7/13/2010	p-m xylene	<2.0	ppb
7/13/2010	T-1,2-Dichloroethene	<1.0	ppb
7/13/2010	T-13-Dichloropropene	<1.0	ppb
7/13/2010	Tetrachlorethene	2.64	ppb
7/13/2010	Toluene	2.94	ppb
7/13/2010	Trichlorethene	1.87	ppb
7/13/2010	Vinyl Chloride	<1.0	ppb
8/3/2010	1,1-Dichloroethane	<1.0	ppb
8/3/2010	1,1-Dichloroethene	<1.0	ppb
8/3/2010	1,2-Dichlorobenzene	<1.0	ppb
8/3/2010	1,2-Dichloroethane	<1.0	ppb
8/3/2010	1,2-Dichloropropane	<1.0	ppb
8/3/2010	1,3-Dichlorobenzene	<1.0	ppb
8/3/2010	1,4-Dichlorobenzene	1.12	ppb
8/3/2010	111-Trichloroethane	<1.0	ppb
8/3/2010	1122Tetrachlorethane	<1.0	ppb
8/3/2010	112-Trichloroethane	<1.0	ppb
8/3/2010	Benzene	<1.0	ppb
8/3/2010	Bromodichloromethane	<1.0	ppb
8/3/2010	Bromoform	<5.0	ppb
8/3/2010	Bromomethane	<1.0	ppb
8/3/2010	CarbonTetrachloride	<1.0	ppb
8/3/2010	Chlorobenzene	<1.0	ppb
8/3/2010	Chloroethane	<1.0	ppb
8/3/2010	Chloroform	6.46	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	1.1	ppb
4/6/2010	Toluene	<1.0	ppb
4/6/2010	Trichlorethene	<1.0	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb
7/13/2010	1,1-Dichloroethane	<1.0	ppb
7/13/2010	1,1-Dichloroethene	<1.0	ppb
7/13/2010	1,2-Dichlorobenzene	<1.0	ppb
7/13/2010	1,2-Dichloroethane	<1.0	ppb
7/13/2010	1,2-Dichloropropane	<1.0	ppb
7/13/2010	1,3-Dichlorobenzene	<1.0	ppb
7/13/2010	1,4-Dichlorobenzene	<1.0	ppb
7/13/2010	111-Trichloroethane	<1.0	ppb
7/13/2010	1122Tetrachlorethane	<1.0	ppb
7/13/2010	112-Trichloroethane	<1.0	ppb
7/13/2010	Benzene	<1.0	ppb
7/13/2010	Bromodichloromethane	<1.0	ppb
7/13/2010	Bromoform	<5.0	ppb
7/13/2010	Bromomethane	19.62	ppb
7/13/2010	CarbonTetrachloride	<1.0	ppb
7/13/2010	Chlorobenzene	<1.0	ppb
7/13/2010	Chloroethane	3.83	ppb
7/13/2010	Chloroform	3.23	ppb
7/13/2010	Chloromethane	9.64	ppb
7/13/2010	cis13Dichloropropene	<1.0	ppb
7/13/2010	Dibromochloromethane	<1.0	ppb
7/13/2010	Ethylbenzene	<1.0	ppb
7/13/2010	Methylene Chloride	<1.0	ppb
7/13/2010	o-xylene	<1.0	ppb
7/13/2010	p-m xylene	<2.0	ppb
7/13/2010	T-1,2-Dichloroethene	<1.0	ppb
7/13/2010	T-13-Dichloropropene	<1.0	ppb
7/13/2010	Tetrachlorethene	<1.0	ppb
7/13/2010	Toluene	<1.0	ppb
7/13/2010	Trichlorethene	<1.0	ppb
7/13/2010	Vinyl Chloride	<1.0	ppb
8/3/2010	1,1-Dichloroethane	<1.0	ppb
8/3/2010	1,1-Dichloroethene	<1.0	ppb
8/3/2010	1,2-Dichlorobenzene	<1.0	ppb
8/3/2010	1,2-Dichloroethane	<1.0	ppb
8/3/2010	1,2-Dichloropropane	<1.0	ppb
8/3/2010	1,3-Dichlorobenzene	<1.0	ppb
8/3/2010	1,4-Dichlorobenzene	<1.0	ppb
8/3/2010	111-Trichloroethane	<1.0	ppb
8/3/2010	1122Tetrachlorethane	<1.0	ppb
8/3/2010	112-Trichloroethane	<1.0	ppb
8/3/2010	Benzene	<1.0	ppb
8/3/2010	Bromodichloromethane	<1.0	ppb
8/3/2010	Bromoform	<5.0	ppb
8/3/2010	Bromomethane	<1.0	ppb
8/3/2010	CarbonTetrachloride	<1.0	ppb
8/3/2010	Chlorobenzene	<1.0	ppb
8/3/2010	Chloroethane	<1.0	ppb
8/3/2010	Chloroform	2.06	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/3/2010	Chloromethane	<1.0	ppb
8/3/2010	cis13Dichloropropene	<1.0	ppb
8/3/2010	Dibromochloromethane	<1.0	ppb
8/3/2010	Ethylbenzene	<1.0	ppb
8/3/2010	Methylene Chloride	<1.0	ppb
8/3/2010	o-xylene	<1.0	ppb
8/3/2010	p-m xylene	<2.0	ppb
8/3/2010	T-1,2-Dichloroethene	<1.0	ppb
8/3/2010	T-13-Dichloropropene	<1.0	ppb
8/3/2010	Tetrachlorethene	13.09	ppb
8/3/2010	Toluene	3.09	ppb
8/3/2010	Trichlorethene	1.22	ppb
8/3/2010	Vinyl Chloride	<1.0	ppb
9/14/2010	1,1-Dichloroethane	<1.0	ppb
9/14/2010	1,1-Dichloroethene	<1.0	ppb
9/14/2010	1,2-Dichlorobenzene	<1.0	ppb
9/14/2010	1,2-Dichloroethane	<1.0	ppb
9/14/2010	1,2-Dichloropropane	<1.0	ppb
9/14/2010	1,3-Dichlorobenzene	<1.0	ppb
9/14/2010	1,4-Dichlorobenzene	<1.0	ppb
9/14/2010	111-Trichloroethane	<1.0	ppb
9/14/2010	1122Tetrachlorethane	<1.0	ppb
9/14/2010	112-Trichloroethane	<1.0	ppb
9/14/2010	Benzene	<1.0	ppb
9/14/2010	Bromodichloromethane	<1.0	ppb
9/14/2010	Bromoform	<5.0	ppb
9/14/2010	Bromomethane	<1.0	ppb
9/14/2010	CarbonTetrachloride	<1.0	ppb
9/14/2010	Chlorobenzene	<1.0	ppb
9/14/2010	Chloroethane	<1.0	ppb
9/14/2010	Chloroform	5.59	ppb
9/14/2010	Chloromethane	<1.0	ppb
9/14/2010	cis13Dichloropropene	<1.0	ppb
9/14/2010	Dibromochloromethane	<1.0	ppb
9/14/2010	Ethylbenzene	<1.0	ppb
9/14/2010	Methylene Chloride	2.17	ppb
9/14/2010	o-xylene	<1.0	ppb
9/14/2010	p-m xylene	<2.0	ppb
9/14/2010	T-1,2-Dichloroethene	<1.0	ppb
9/14/2010	T-13-Dichloropropene	<1.0	ppb
9/14/2010	Tetrachlorethene	1.42	ppb
9/14/2010	Toluene	1.97	ppb
9/14/2010	Trichlorethene	<1.0	ppb
9/14/2010	Vinyl Chloride	<1.0	ppb
11/16/2010	1,1-Dichloroethane	<1.0	ppb
11/16/2010	1,1-Dichloroethene	<1.0	ppb
11/16/2010	1,2-Dichlorobenzene	<1.0	ppb
11/16/2010	1,2-Dichloroethane	<1.0	ppb
11/16/2010	1,2-Dichloropropane	<1.0	ppb
11/16/2010	1,3-Dichlorobenzene	<1.0	ppb
11/16/2010	1,4-Dichlorobenzene	<1.0	ppb
11/16/2010	111-Trichloroethane	<1.0	ppb
11/16/2010	1122Tetrachlorethane	<1.0	ppb
11/16/2010	112-Trichloroethane	<1.0	ppb
11/16/2010	Benzene	<1.0	ppb
11/16/2010	Bromodichloromethane	<1.0	ppb
11/16/2010	Bromoform	<5.0	ppb
11/16/2010	Bromomethane	<1.0	ppb
11/16/2010	CarbonTetrachloride	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/3/2010	Chloromethane	<1.0	ppb
8/3/2010	cis13Dichloropropene	<1.0	ppb
8/3/2010	Dibromochloromethane	<1.0	ppb
8/3/2010	Ethylbenzene	<1.0	ppb
8/3/2010	Methylene Chloride	<1.0	ppb
8/3/2010	o-xylene	<1.0	ppb
8/3/2010	p-m xylene	<2.0	ppb
8/3/2010	T-1,2-Dichloroethene	<1.0	ppb
8/3/2010	T-13-Dichloropropene	<1.0	ppb
8/3/2010	Tetrachlorethene	<1.0	ppb
8/3/2010	Toluene	<1.0	ppb
8/3/2010	Trichlorethene	<1.0	ppb
8/3/2010	Vinyl Chloride	<1.0	ppb
9/14/2010	1,1-Dichloroethane	<1.0	ppb
9/14/2010	1,1-Dichloroethene	<1.0	ppb
9/14/2010	1,2-Dichlorobenzene	<1.0	ppb
9/14/2010	1,2-Dichloroethane	<1.0	ppb
9/14/2010	1,2-Dichloropropane	<1.0	ppb
9/14/2010	1,3-Dichlorobenzene	<1.0	ppb
9/14/2010	1,4-Dichlorobenzene	<1.0	ppb
9/14/2010	111-Trichloroethane	<1.0	ppb
9/14/2010	1122Tetrachlorethane	<1.0	ppb
9/14/2010	112-Trichloroethane	<1.0	ppb
9/14/2010	Benzene	<1.0	ppb
9/14/2010	Bromodichloromethane	<1.0	ppb
9/14/2010	Bromoform	<5.0	ppb
9/14/2010	Bromomethane	<1.0	ppb
9/14/2010	CarbonTetrachloride	<1.0	ppb
9/14/2010	Chlorobenzene	<1.0	ppb
9/14/2010	Chloroethane	<1.0	ppb
9/14/2010	Chloroform	1.88	ppb
9/14/2010	Chloromethane	<1.0	ppb
9/14/2010	cis13Dichloropropene	<1.0	ppb
9/14/2010	Dibromochloromethane	<1.0	ppb
9/14/2010	Ethylbenzene	<1.0	ppb
9/14/2010	Methylene Chloride	<1.0	ppb
9/14/2010	o-xylene	<1.0	ppb
9/14/2010	p-m xylene	<2.0	ppb
9/14/2010	T-1,2-Dichloroethene	<1.0	ppb
9/14/2010	T-13-Dichloropropene	<1.0	ppb
9/14/2010	Tetrachlorethene	<1.0	ppb
9/14/2010	Toluene	<1.0	ppb
9/14/2010	Trichlorethene	<1.0	ppb
9/14/2010	Vinyl Chloride	<1.0	ppb
11/16/2010	1,1-Dichloroethane	<1.0	ppb
11/16/2010	1,1-Dichloroethene	<1.0	ppb
11/16/2010	1,2-Dichlorobenzene	<1.0	ppb
11/16/2010	1,2-Dichloroethane	<1.0	ppb
11/16/2010	1,2-Dichloropropane	<1.0	ppb
11/16/2010	1,3-Dichlorobenzene	<1.0	ppb
11/16/2010	1,4-Dichlorobenzene	<1.0	ppb
11/16/2010	111-Trichloroethane	<1.0	ppb
11/16/2010	1122Tetrachlorethane	<1.0	ppb
11/16/2010	112-Trichloroethane	<1.0	ppb
11/16/2010	Benzene	<1.0	ppb
11/16/2010	Bromodichloromethane	<1.0	ppb
11/16/2010	Bromoform	<5.0	ppb
11/16/2010	Bromomethane	<1.0	ppb
11/16/2010	CarbonTetrachloride	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
11/16/2010	Chlorobenzene	<1.0	ppb
11/16/2010	Chloroethane	<1.0	ppb
11/16/2010	Chloroform	3.74	ppb
11/16/2010	Chloromethane	<1.0	ppb
11/16/2010	cis13Dichloropropene	<1.0	ppb
11/16/2010	Dibromochloromethane	<1.0	ppb
11/16/2010	Ethylbenzene	<1.0	ppb
11/16/2010	Methylene Chloride	<1.0	ppb
11/16/2010	o-xylene	<1.0	ppb
11/16/2010	p-m xylene	<2.0	ppb
11/16/2010	T-1,2-Dichloroethene	<1.0	ppb
11/16/2010	T-13-Dichloropropene	<1.0	ppb
11/16/2010	Tetrachlorethene	<1.0	ppb
11/16/2010	Toluene	2.78	ppb
11/16/2010	Trichlorethene	<1.0	ppb
11/16/2010	Vinyl Chloride	<1.0	ppb
12/7/2010	1,1-Dichloroethane	<1.0	ppb
12/7/2010	1,1-Dichloroethene	<1.0	ppb
12/7/2010	1,2-Dichlorobenzene	<1.0	ppb
12/7/2010	1,2-Dichloroethane	<1.0	ppb
12/7/2010	1,2-Dichloropropane	<1.0	ppb
12/7/2010	1,3-Dichlorobenzene	<1.0	ppb
12/7/2010	1,4-Dichlorobenzene	<1.0	ppb
12/7/2010	111-Trichloroethane	<1.0	ppb
12/7/2010	1122Tetrachlorethane	<1.0	ppb
12/7/2010	112-Trichloroethane	<1.0	ppb
12/7/2010	Benzene	<1.0	ppb
12/7/2010	Bromodichloromethane	<1.0	ppb
12/7/2010	Bromoform	<5.0	ppb
12/7/2010	Bromomethane	<1.0	ppb
12/7/2010	CarbonTetrachloride	<1.0	ppb
12/7/2010	Chlorobenzene	<1.0	ppb
12/7/2010	Chloroethane	<1.0	ppb
12/7/2010	Chloroform	3.69	ppb
12/7/2010	Chloromethane	<1.0	ppb
12/7/2010	cis13Dichloropropene	<1.0	ppb
12/7/2010	Dibromochloromethane	<1.0	ppb
12/7/2010	Ethylbenzene	<1.0	ppb
12/7/2010	Methylene Chloride	<1.0	ppb
12/7/2010	o-xylene	<1.0	ppb
12/7/2010	p-m xylene	<2.0	ppb
12/7/2010	T-1,2-Dichloroethene	<1.0	ppb
12/7/2010	T-13-Dichloropropene	<1.0	ppb
12/7/2010	Tetrachlorethene	4.55	ppb
12/7/2010	Toluene	1.95	ppb
12/7/2010	Trichlorethene	1.07	ppb
12/7/2010	Vinyl Chloride	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
11/16/2010	Chlorobenzene	<1.0	ppb
11/16/2010	Chloroethane	<1.0	ppb
11/16/2010	Chloroform	1.43	ppb
11/16/2010	Chloromethane	<1.0	ppb
11/16/2010	cis13Dichloropropene	<1.0	ppb
11/16/2010	Dibromochloromethane	<1.0	ppb
11/16/2010	Ethylbenzene	<1.0	ppb
11/16/2010	Methylene Chloride	<1.0	ppb
11/16/2010	o-xylene	<1.0	ppb
11/16/2010	p-m xylene	<2.0	ppb
11/16/2010	T-1,2-Dichloroethene	<1.0	ppb
11/16/2010	T-13-Dichloropropene	<1.0	ppb
11/16/2010	Tetrachlorethene	1.15	ppb
11/16/2010	Toluene	<1.0	ppb
11/16/2010	Trichlorethene	<1.0	ppb
11/16/2010	Vinyl Chloride	<1.0	ppb
12/7/2010	1,1-Dichloroethane	<1.0	ppb
12/7/2010	1,1-Dichloroethene	<1.0	ppb
12/7/2010	1,2-Dichlorobenzene	<1.0	ppb
12/7/2010	1,2-Dichloroethane	<1.0	ppb
12/7/2010	1,2-Dichloropropane	<1.0	ppb
12/7/2010	1,3-Dichlorobenzene	<1.0	ppb
12/7/2010	1,4-Dichlorobenzene	<1.0	ppb
12/7/2010	111-Trichloroethane	<1.0	ppb
12/7/2010	1122Tetrachlorethane	<1.0	ppb
12/7/2010	112-Trichloroethane	<1.0	ppb
12/7/2010	Benzene	<1.0	ppb
12/7/2010	Bromodichloromethane	<1.0	ppb
12/7/2010	Bromoform	<5.0	ppb
12/7/2010	Bromomethane	1.76	ppb
12/7/2010	CarbonTetrachloride	<1.0	ppb
12/7/2010	Chlorobenzene	<1.0	ppb
12/7/2010	Chloroethane	<1.0	ppb
12/7/2010	Chloroform	1.18	ppb
12/7/2010	Chloromethane	2.86	ppb
12/7/2010	cis13Dichloropropene	<1.0	ppb
12/7/2010	Dibromochloromethane	<1.0	ppb
12/7/2010	Ethylbenzene	<1.0	ppb
12/7/2010	Methylene Chloride	<1.0	ppb
12/7/2010	o-xylene	<1.0	ppb
12/7/2010	p-m xylene	<2.0	ppb
12/7/2010	T-1,2-Dichloroethene	<1.0	ppb
12/7/2010	T-13-Dichloropropene	<1.0	ppb
12/7/2010	Tetrachlorethene	<1.0	ppb
12/7/2010	Toluene	<1.0	ppb
12/7/2010	Trichlorethene	<1.0	ppb
12/7/2010	Vinyl Chloride	<1.0	ppb

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	<1.0	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	10.14	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	7.75	ppb
1/5/2010	Toluene	1.45	ppb
1/5/2010	Trichlorethene	<1.0	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	<1.0	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	<1.0	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	3.66	ppb
2/2/2010	Chloromethane	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	<1.0	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	1.06	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	<1.0	ppb
1/5/2010	Toluene	<1.0	ppb
1/5/2010	Trichlorethene	<1.0	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	<1.0	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	<1.0	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	1.25	ppb
2/2/2010	Chloromethane	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	16.87	ppb
2/2/2010	Toluene	1.62	ppb
2/2/2010	Trichlorethene	<1.0	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	1.23	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	4.09	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	10.62	ppb
3/2/2010	Toluene	4.41	ppb
3/2/2010	Trichlorethene	<1.0	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	1.22	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	<1.0	ppb
2/2/2010	Toluene	<1.0	ppb
2/2/2010	Trichlorethene	<1.0	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	<1.0	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	<1.0	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	1.36	ppb
3/2/2010	Toluene	<1.0	ppb
3/2/2010	Trichlorethene	<1.0	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	2.86	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	7.05	ppb
4/6/2010	Toluene	1.6	ppb
4/6/2010	Trichlorethene	<1.0	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb
7/20/2010	1,1-Dichloroethane	<1.0	ppb
7/20/2010	1,1-Dichloroethene	<1.0	ppb
7/20/2010	1,2-Dichlorobenzene	<1.0	ppb
7/20/2010	1,2-Dichloroethane	<1.0	ppb
7/20/2010	1,2-Dichloropropane	<1.0	ppb
7/20/2010	1,3-Dichlorobenzene	<1.0	ppb
7/20/2010	1,4-Dichlorobenzene	<1.0	ppb
7/20/2010	111-Trichloroethane	<1.0	ppb
7/20/2010	1122Tetrachlorethane	<1.0	ppb
7/20/2010	112-Trichloroethane	<1.0	ppb
7/20/2010	Benzene	<1.0	ppb
7/20/2010	Bromodichloromethane	<1.0	ppb
7/20/2010	Bromoform	<5.0	ppb
7/20/2010	Bromomethane	<1.0	ppb
7/20/2010	CarbonTetrachloride	<1.0	ppb
7/20/2010	Chlorobenzene	<1.0	ppb
7/20/2010	Chloroethane	<1.0	ppb
7/20/2010	Chloroform	1.95	ppb
7/20/2010	Chloromethane	<1.0	ppb
7/20/2010	cis13Dichloropropene	<1.0	ppb
7/20/2010	Dibromochloromethane	<1.0	ppb
7/20/2010	Ethylbenzene	<1.0	ppb
7/20/2010	Methylene Chloride	<1.0	ppb
7/20/2010	o-xylene	<1.0	ppb
7/20/2010	p-m xylene	<2.0	ppb
7/20/2010	T-1,2-Dichloroethene	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	2.71	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	2.48	ppb
4/6/2010	Toluene	<1.0	ppb
4/6/2010	Trichlorethene	<1.0	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb
4/20/2010	1,1-Dichloroethane	<1.0	ppb
4/20/2010	1,1-Dichloroethene	<1.0	ppb
4/20/2010	1,2-Dichlorobenzene	<1.0	ppb
4/20/2010	1,2-Dichloroethane	<1.0	ppb
4/20/2010	1,2-Dichloropropane	<1.0	ppb
4/20/2010	1,3-Dichlorobenzene	<1.0	ppb
4/20/2010	1,4-Dichlorobenzene	<1.0	ppb
4/20/2010	111-Trichloroethane	<1.0	ppb
4/20/2010	1122Tetrachlorethane	<1.0	ppb
4/20/2010	112-Trichloroethane	<1.0	ppb
4/20/2010	Benzene	<1.0	ppb
4/20/2010	Bromodichloromethane	<1.0	ppb
4/20/2010	Bromoform	<5.0	ppb
4/20/2010	Bromomethane	<1.0	ppb
4/20/2010	CarbonTetrachloride	<1.0	ppb
4/20/2010	Chlorobenzene	<1.0	ppb
4/20/2010	Chloroethane	<1.0	ppb
4/20/2010	Chloroform	4.35	ppb
4/20/2010	Chloromethane	<1.0	ppb
4/20/2010	cis13Dichloropropene	<1.0	ppb
4/20/2010	Dibromochloromethane	<1.0	ppb
4/20/2010	Ethylbenzene	<1.0	ppb
4/20/2010	Methylene Chloride	<1.0	ppb
4/20/2010	o-xylene	<1.0	ppb
4/20/2010	p-m xylene	<2.0	ppb
4/20/2010	T-1,2-Dichloroethene	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	<1.0	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	10.14	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	7.75	ppb
1/5/2010	Toluene	1.45	ppb
1/5/2010	Trichlorethene	<1.0	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	<1.0	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	<1.0	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	3.66	ppb
2/2/2010	Chloromethane	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/5/2010	1,1-Dichloroethane	<1.0	ppb
1/5/2010	1,1-Dichloroethene	<1.0	ppb
1/5/2010	1,2-Dichlorobenzene	<1.0	ppb
1/5/2010	1,2-Dichloroethane	<1.0	ppb
1/5/2010	1,2-Dichloropropane	<1.0	ppb
1/5/2010	1,3-Dichlorobenzene	<1.0	ppb
1/5/2010	1,4-Dichlorobenzene	<1.0	ppb
1/5/2010	111-Trichloroethane	<1.0	ppb
1/5/2010	1122Tetrachlorethane	<1.0	ppb
1/5/2010	112-Trichloroethane	<1.0	ppb
1/5/2010	Benzene	<1.0	ppb
1/5/2010	Bromodichloromethane	<1.0	ppb
1/5/2010	Bromoform	<5.0	ppb
1/5/2010	Bromomethane	<1.0	ppb
1/5/2010	CarbonTetrachloride	<1.0	ppb
1/5/2010	Chlorobenzene	<1.0	ppb
1/5/2010	Chloroethane	<1.0	ppb
1/5/2010	Chloroform	1.06	ppb
1/5/2010	Chloromethane	<1.0	ppb
1/5/2010	cis13Dichloropropene	<1.0	ppb
1/5/2010	Dibromochloromethane	<1.0	ppb
1/5/2010	Ethylbenzene	<1.0	ppb
1/5/2010	Methylene Chloride	<1.0	ppb
1/5/2010	o-xylene	<1.0	ppb
1/5/2010	p-m xylene	<2.0	ppb
1/5/2010	T-1,2-Dichloroethene	<1.0	ppb
1/5/2010	T-13-Dichloropropene	<1.0	ppb
1/5/2010	Tetrachlorethene	<1.0	ppb
1/5/2010	Toluene	<1.0	ppb
1/5/2010	Trichlorethene	<1.0	ppb
1/5/2010	Vinyl Chloride	<1.0	ppb
2/2/2010	1,1-Dichloroethane	<1.0	ppb
2/2/2010	1,1-Dichloroethene	<1.0	ppb
2/2/2010	1,2-Dichlorobenzene	<1.0	ppb
2/2/2010	1,2-Dichloroethane	<1.0	ppb
2/2/2010	1,2-Dichloropropane	<1.0	ppb
2/2/2010	1,3-Dichlorobenzene	<1.0	ppb
2/2/2010	1,4-Dichlorobenzene	<1.0	ppb
2/2/2010	111-Trichloroethane	<1.0	ppb
2/2/2010	1122Tetrachlorethane	<1.0	ppb
2/2/2010	112-Trichloroethane	<1.0	ppb
2/2/2010	Benzene	<1.0	ppb
2/2/2010	Bromodichloromethane	<1.0	ppb
2/2/2010	Bromoform	<5.0	ppb
2/2/2010	Bromomethane	<1.0	ppb
2/2/2010	CarbonTetrachloride	<1.0	ppb
2/2/2010	Chlorobenzene	<1.0	ppb
2/2/2010	Chloroethane	<1.0	ppb
2/2/2010	Chloroform	1.25	ppb
2/2/2010	Chloromethane	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	16.87	ppb
2/2/2010	Toluene	1.62	ppb
2/2/2010	Trichlorethene	<1.0	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	1.23	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	4.09	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	10.62	ppb
3/2/2010	Toluene	4.41	ppb
3/2/2010	Trichlorethene	<1.0	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	1.22	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/2/2010	cis13Dichloropropene	<1.0	ppb
2/2/2010	Dibromochloromethane	<1.0	ppb
2/2/2010	Ethylbenzene	<1.0	ppb
2/2/2010	Methylene Chloride	<1.0	ppb
2/2/2010	o-xylene	<1.0	ppb
2/2/2010	p-m xylene	<2.0	ppb
2/2/2010	T-1,2-Dichloroethene	<1.0	ppb
2/2/2010	T-13-Dichloropropene	<1.0	ppb
2/2/2010	Tetrachlorethene	<1.0	ppb
2/2/2010	Toluene	<1.0	ppb
2/2/2010	Trichlorethene	<1.0	ppb
2/2/2010	Vinyl Chloride	<1.0	ppb
3/2/2010	1,1-Dichloroethane	<1.0	ppb
3/2/2010	1,1-Dichloroethene	<1.0	ppb
3/2/2010	1,2-Dichlorobenzene	<1.0	ppb
3/2/2010	1,2-Dichloroethane	<1.0	ppb
3/2/2010	1,2-Dichloropropane	<1.0	ppb
3/2/2010	1,3-Dichlorobenzene	<1.0	ppb
3/2/2010	1,4-Dichlorobenzene	<1.0	ppb
3/2/2010	111-Trichloroethane	<1.0	ppb
3/2/2010	1122Tetrachlorethane	<1.0	ppb
3/2/2010	112-Trichloroethane	<1.0	ppb
3/2/2010	Benzene	<1.0	ppb
3/2/2010	Bromodichloromethane	<1.0	ppb
3/2/2010	Bromoform	<5.0	ppb
3/2/2010	Bromomethane	<1.0	ppb
3/2/2010	CarbonTetrachloride	<1.0	ppb
3/2/2010	Chlorobenzene	<1.0	ppb
3/2/2010	Chloroethane	<1.0	ppb
3/2/2010	Chloroform	<1.0	ppb
3/2/2010	Chloromethane	<1.0	ppb
3/2/2010	cis13Dichloropropene	<1.0	ppb
3/2/2010	Dibromochloromethane	<1.0	ppb
3/2/2010	Ethylbenzene	<1.0	ppb
3/2/2010	Methylene Chloride	<1.0	ppb
3/2/2010	o-xylene	<1.0	ppb
3/2/2010	p-m xylene	<2.0	ppb
3/2/2010	T-1,2-Dichloroethene	<1.0	ppb
3/2/2010	T-13-Dichloropropene	<1.0	ppb
3/2/2010	Tetrachlorethene	1.36	ppb
3/2/2010	Toluene	<1.0	ppb
3/2/2010	Trichlorethene	<1.0	ppb
3/2/2010	Vinyl Chloride	<1.0	ppb
4/6/2010	1,1-Dichloroethane	<1.0	ppb
4/6/2010	1,1-Dichloroethene	<1.0	ppb
4/6/2010	1,2-Dichlorobenzene	<1.0	ppb
4/6/2010	1,2-Dichloroethane	<1.0	ppb
4/6/2010	1,2-Dichloropropane	<1.0	ppb
4/6/2010	1,3-Dichlorobenzene	<1.0	ppb
4/6/2010	1,4-Dichlorobenzene	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	2.86	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	7.05	ppb
4/6/2010	Toluene	1.6	ppb
4/6/2010	Trichlorethene	<1.0	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/6/2010	111-Trichloroethane	<1.0	ppb
4/6/2010	1122Tetrachlorethane	<1.0	ppb
4/6/2010	112-Trichloroethane	<1.0	ppb
4/6/2010	Benzene	<1.0	ppb
4/6/2010	Bromodichloromethane	<1.0	ppb
4/6/2010	Bromoform	<5.0	ppb
4/6/2010	Bromomethane	<1.0	ppb
4/6/2010	CarbonTetrachloride	<1.0	ppb
4/6/2010	Chlorobenzene	<1.0	ppb
4/6/2010	Chloroethane	<1.0	ppb
4/6/2010	Chloroform	2.71	ppb
4/6/2010	Chloromethane	<1.0	ppb
4/6/2010	cis13Dichloropropene	<1.0	ppb
4/6/2010	Dibromochloromethane	<1.0	ppb
4/6/2010	Ethylbenzene	<1.0	ppb
4/6/2010	Methylene Chloride	<1.0	ppb
4/6/2010	o-xylene	<1.0	ppb
4/6/2010	p-m xylene	<2.0	ppb
4/6/2010	T-1,2-Dichloroethene	<1.0	ppb
4/6/2010	T-13-Dichloropropene	<1.0	ppb
4/6/2010	Tetrachlorethene	2.48	ppb
4/6/2010	Toluene	<1.0	ppb
4/6/2010	Trichlorethene	<1.0	ppb
4/6/2010	Vinyl Chloride	<1.0	ppb
4/20/2010	1,1-Dichloroethane	<1.0	ppb
4/20/2010	1,1-Dichloroethene	<1.0	ppb
4/20/2010	1,2-Dichlorobenzene	<1.0	ppb
4/20/2010	1,2-Dichloroethane	<1.0	ppb
4/20/2010	1,2-Dichloropropane	<1.0	ppb
4/20/2010	1,3-Dichlorobenzene	<1.0	ppb
4/20/2010	1,4-Dichlorobenzene	<1.0	ppb
4/20/2010	111-Trichloroethane	<1.0	ppb
4/20/2010	1122Tetrachlorethane	<1.0	ppb
4/20/2010	112-Trichloroethane	<1.0	ppb
4/20/2010	Benzene	<1.0	ppb
4/20/2010	Bromodichloromethane	<1.0	ppb
4/20/2010	Bromoform	<5.0	ppb
4/20/2010	Bromomethane	<1.0	ppb
4/20/2010	CarbonTetrachloride	<1.0	ppb
4/20/2010	Chlorobenzene	<1.0	ppb
4/20/2010	Chloroethane	<1.0	ppb
4/20/2010	Chloroform	4.35	ppb
4/20/2010	Chloromethane	<1.0	ppb
4/20/2010	cis13Dichloropropene	<1.0	ppb
4/20/2010	Dibromochloromethane	<1.0	ppb
4/20/2010	Ethylbenzene	<1.0	ppb
4/20/2010	Methylene Chloride	<1.0	ppb
4/20/2010	o-xylene	<1.0	ppb
4/20/2010	p-m xylene	<2.0	ppb
4/20/2010	T-1,2-Dichloroethene	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/20/2010	1,1-Dichloroethane	<1.0	ppb
7/20/2010	1,1-Dichloroethene	<1.0	ppb
7/20/2010	1,2-Dichlorobenzene	<1.0	ppb
7/20/2010	1,2-Dichloroethane	<1.0	ppb
7/20/2010	1,2-Dichloropropane	<1.0	ppb
7/20/2010	1,3-Dichlorobenzene	<1.0	ppb
7/20/2010	1,4-Dichlorobenzene	<1.0	ppb
7/20/2010	111-Trichloroethane	<1.0	ppb
7/20/2010	1122Tetrachlorethane	<1.0	ppb
7/20/2010	112-Trichloroethane	<1.0	ppb
7/20/2010	Benzene	<1.0	ppb
7/20/2010	Bromodichloromethane	<1.0	ppb
7/20/2010	Bromoform	<5.0	ppb
7/20/2010	Bromomethane	<1.0	ppb
7/20/2010	CarbonTetrachloride	<1.0	ppb
7/20/2010	Chlorobenzene	<1.0	ppb
7/20/2010	Chloroethane	<1.0	ppb
7/20/2010	Chloroform	1.95	ppb
7/20/2010	Chloromethane	<1.0	ppb
7/20/2010	cis13Dichloropropene	<1.0	ppb
7/20/2010	Dibromochloromethane	<1.0	ppb
7/20/2010	Ethylbenzene	<1.0	ppb
7/20/2010	Methylene Chloride	<1.0	ppb
7/20/2010	o-xylene	<1.0	ppb
7/20/2010	p-m xylene	<2.0	ppb
7/20/2010	T-1,2-Dichloroethene	<1.0	ppb
7/20/2010	T-13-Dichloropropene	<1.0	ppb
7/20/2010	Tetrachlorethene	<1.0	ppb
7/20/2010	Toluene	3.35	ppb
7/20/2010	Trichlorethene	<1.0	ppb
7/20/2010	Vinyl Chloride	<1.0	ppb
8/3/2010	1,1-Dichloroethane	<1.0	ppb
8/3/2010	1,1-Dichloroethene	<1.0	ppb
8/3/2010	1,2-Dichlorobenzene	<1.0	ppb
8/3/2010	1,2-Dichloroethane	<1.0	ppb
8/3/2010	1,2-Dichloropropane	<1.0	ppb
8/3/2010	1,3-Dichlorobenzene	<1.0	ppb
8/3/2010	1,4-Dichlorobenzene	<1.0	ppb
8/3/2010	111-Trichloroethane	<1.0	ppb
8/3/2010	1122Tetrachlorethane	<1.0	ppb
8/3/2010	112-Trichloroethane	<1.0	ppb
8/3/2010	Benzene	<1.0	ppb
8/3/2010	Bromodichloromethane	<1.0	ppb
8/3/2010	Bromoform	<5.0	ppb
8/3/2010	Bromomethane	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/20/2010	T-13-Dichloropropene	<1.0	ppb
4/20/2010	Tetrachlorethene	<1.0	ppb
4/20/2010	Toluene	<1.0	ppb
4/20/2010	Trichlorethene	<1.0	ppb
4/20/2010	Vinyl Chloride	<1.0	ppb
7/20/2010	1,1-Dichloroethane	<1.0	ppb
7/20/2010	1,1-Dichloroethene	<1.0	ppb
7/20/2010	1,2-Dichlorobenzene	<1.0	ppb
7/20/2010	1,2-Dichloroethane	<1.0	ppb
7/20/2010	1,2-Dichloropropane	<1.0	ppb
7/20/2010	1,3-Dichlorobenzene	<1.0	ppb
7/20/2010	1,4-Dichlorobenzene	<1.0	ppb
7/20/2010	111-Trichloroethane	<1.0	ppb
7/20/2010	1122Tetrachlorethane	<1.0	ppb
7/20/2010	112-Trichloroethane	<1.0	ppb
7/20/2010	Benzene	<1.0	ppb
7/20/2010	Bromodichloromethane	<1.0	ppb
7/20/2010	Bromoform	<5.0	ppb
7/20/2010	Bromomethane	<1.0	ppb
7/20/2010	CarbonTetrachloride	<1.0	ppb
7/20/2010	Chlorobenzene	<1.0	ppb
7/20/2010	Chloroethane	<1.0	ppb
7/20/2010	Chloroform	<1.0	ppb
7/20/2010	Chloromethane	<1.0	ppb
7/20/2010	cis13Dichloropropene	<1.0	ppb
7/20/2010	Dibromochloromethane	<1.0	ppb
7/20/2010	Ethylbenzene	<1.0	ppb
7/20/2010	Methylene Chloride	<1.0	ppb
7/20/2010	o-xylene	<1.0	ppb
7/20/2010	p-m xylene	<2.0	ppb
7/20/2010	T-1,2-Dichloroethene	<1.0	ppb
7/20/2010	T-13-Dichloropropene	<1.0	ppb
7/20/2010	Tetrachlorethene	<1.0	ppb
7/20/2010	Toluene	<1.0	ppb
7/20/2010	Trichlorethene	<1.0	ppb
7/20/2010	Vinyl Chloride	<1.0	ppb
8/3/2010	1,1-Dichloroethane	<1.0	ppb
8/3/2010	1,1-Dichloroethene	<1.0	ppb
8/3/2010	1,2-Dichlorobenzene	<1.0	ppb
8/3/2010	1,2-Dichloroethane	<1.0	ppb
8/3/2010	1,2-Dichloropropane	<1.0	ppb
8/3/2010	1,3-Dichlorobenzene	<1.0	ppb
8/3/2010	1,4-Dichlorobenzene	<1.0	ppb
8/3/2010	111-Trichloroethane	<1.0	ppb
8/3/2010	1122Tetrachlorethane	<1.0	ppb
8/3/2010	112-Trichloroethane	<1.0	ppb
8/3/2010	Benzene	<1.0	ppb
8/3/2010	Bromodichloromethane	<1.0	ppb
8/3/2010	Bromoform	<5.0	ppb
8/3/2010	Bromomethane	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/3/2010	CarbonTetrachloride	<1.0	ppb
8/3/2010	Chlorobenzene	<1.0	ppb
8/3/2010	Chloroethane	<1.0	ppb
8/3/2010	Chloroform	3.53	ppb
8/3/2010	Chloromethane	<1.0	ppb
8/3/2010	cis13Dichloropropene	<1.0	ppb
8/3/2010	Dibromochloromethane	<1.0	ppb
8/3/2010	Ethylbenzene	<1.0	ppb
8/3/2010	Methylene Chloride	<1.0	ppb
8/3/2010	o-xylene	<1.0	ppb
8/3/2010	p-m xylene	<2.0	ppb
8/3/2010	T-1,2-Dichloroethene	<1.0	ppb
8/3/2010	T-13-Dichloropropene	<1.0	ppb
8/3/2010	Tetrachlorethene	1.02	ppb
8/3/2010	Toluene	2.6	ppb
8/3/2010	Trichlorethene	<1.0	ppb
8/3/2010	Vinyl Chloride	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/3/2010	CarbonTetrachloride	<1.0	ppb
8/3/2010	Chlorobenzene	<1.0	ppb
8/3/2010	Chloroethane	<1.0	ppb
8/3/2010	Chloroform	<1.0	ppb
8/3/2010	Chloromethane	<1.0	ppb
8/3/2010	cis13Dichloropropene	<1.0	ppb
8/3/2010	Dibromochloromethane	<1.0	ppb
8/3/2010	Ethylbenzene	<1.0	ppb
8/3/2010	Methylene Chloride	<1.0	ppb
8/3/2010	o-xylene	<1.0	ppb
8/3/2010	p-m xylene	<2.0	ppb
8/3/2010	T-1,2-Dichloroethene	<1.0	ppb
8/3/2010	T-13-Dichloropropene	<1.0	ppb
8/3/2010	Tetrachlorethene	<1.0	ppb
8/3/2010	Toluene	<1.0	ppb
8/3/2010	Trichlorethene	<1.0	ppb
8/3/2010	Vinyl Chloride	<1.0	ppb
9/8/2010	1,1-Dichloroethane	<1.0	ppb
9/8/2010	1,1-Dichloroethene	<1.0	ppb
9/8/2010	1,2-Dichlorobenzene	<1.0	ppb
9/8/2010	1,2-Dichloroethane	<1.0	ppb
9/8/2010	1,2-Dichloropropane	<1.0	ppb
9/8/2010	1,3-Dichlorobenzene	<1.0	ppb
9/8/2010	1,4-Dichlorobenzene	<1.0	ppb
9/8/2010	111-Trichloroethane	<1.0	ppb
9/8/2010	1122Tetrachlorethane	<1.0	ppb
9/8/2010	112-Trichloroethane	<1.0	ppb
9/8/2010	Benzene	<1.0	ppb
9/8/2010	Bromodichloromethane	<1.0	ppb
9/8/2010	Bromoform	<5.0	ppb
9/8/2010	Bromomethane	<1.0	ppb
9/8/2010	CarbonTetrachloride	<1.0	ppb
9/8/2010	Chlorobenzene	<1.0	ppb
9/8/2010	Chloroethane	<1.0	ppb
9/8/2010	Chloroform	<1.0	ppb
9/8/2010	Chloromethane	<1.0	ppb
9/8/2010	cis13Dichloropropene	<1.0	ppb
9/8/2010	Dibromochloromethane	<1.0	ppb
9/8/2010	Ethylbenzene	<1.0	ppb
9/8/2010	Methylene Chloride	<1.0	ppb
9/8/2010	o-xylene	<1.0	ppb
9/8/2010	p-m xylene	<2.0	ppb
9/8/2010	T-1,2-Dichloroethene	<1.0	ppb
9/8/2010	T-13-Dichloropropene	<1.0	ppb
9/8/2010	Tetrachlorethene	<1.0	ppb
9/8/2010	Toluene	<1.0	ppb
9/8/2010	Trichlorethene	<1.0	ppb
9/8/2010	Vinyl Chloride	<1.0	ppb
9/9/2010	1,1-Dichloroethane	<1.0	ppb
9/9/2010	1,1-Dichloroethene	<1.0	ppb

Table 21: EPA Priority Pollutants Data Bucklin Point

Sanitary Manhole Sampling Data 2010

Date	Location		Cd (ppb)	Cr (ppb)	Cu (ppb)	Pb (ppb)	Hg (ppt)	Mo (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	As (ppb)	Se (ppb)	Sn (ppb)	Cyanide (ppb)	BOD (ppm)	TSS (ppm)
1/7/2010	BS03 -	Bridal & Suffolk Way	0.0628	12.9	26.2	1.30	20.40	0.306	5.50	<0.03	63.2	0.291	<1.5	<1	<4.00	89	91
1/14/2010	FS30 -	Vermont Avenue	0.108	1.91	24.6	17.5	33.60	0.900	4.79	0.0394	72.5	0.626	<1.5	2.26	<4.00	498.4	182
1/21/2010	BS16 -	Floral at Woodhaven	0.122	1.54	34.1	6.46	111.00	0.653	5.86	0.146	98.3	0.788	<1.5	1.41	<4.00	297.06	201
1/28/2010	FS33 -	Ellery Street	0.0751	3.27	24.0	5.05	29.90	1.52	6.64	0.158	163	0.544	<1.5	2.31	<4.00	358.3	256
2/4/2010	FS34 -	Oak Street	0.0589	1.08	12.6	1.93	39.50	0.336	2.98	<0.03	83.8	0.465	<1.5	1.43	<4.00	203.1	98
2/11/2010	BS04 -	Countryside Drive	0.0492	0.576	7.70	<0.5	21.50	<0.2	4.09	0.0636	30.5	0.449	<1.5	<1	<2.00	91.5	54
2/18/2010	BS11 -	Don Avenue	0.150	8.72	45.3	10.1	157.00	0.647	7.10	0.161	97.7	0.988	<1.5	1.73	15.09	308.6	78
2/25/2010	FS24 -	180 Indiana Avenue	0.163	2.61	28.1	27.1	124.00	0.876	6.02	0.0715	166	0.868	<1.5	3.98	<2.00	453.6	412
3/4/2010	FS17 -	Ohio Avenue	0.192	1.07	25.1	11.8	56.40	0.341	3.74	0.0202	131	0.640	<0.600	1.13	<4.00	322.2	318
5/13/2010	FS37 -	Whittier	0.357	1.26	15.6	5.40	18.50	0.655	5.54	0.0607	52.3	0.498	<1.5	1.30	<2.00	237.1	86
5/20/2010	BS02 -	Sayles Avenue	0.105	1.46	40.8	7.94	22.80	1.11	3.94	0.450	104	0.610	<3.00	3.69	2.04	191.4	169
5/27/2010	FS43 -	Washington Avenue	0.124	1.29	26.4	43.3	254.00	0.602	4.91	0.138	140	0.920	<1.5	1.84	<8.00	288.7	331
6/3/2010	BS05 -	Weeden & Larchwood	0.150	1.32	27.4	2.13	26.50	1.14	4.21	0.0872	96.7	0.608	<1.5	<5.00	<4.00	268.4	176
6/10/2010	BS13 -	Erica at Bridle	0.0983	1.90	37.7	12.3	29.50	0.584	4.39	0.137	102	0.395	<1.5	<5.00	<2.00	134.2	198
6/17/2010	FS19 -	California Avenue	0.267	4.41	35.2	25.4	183.00	1.06	6.83	0.352	156	2.47	0.607		<4.00	217.2	228
6/24/2010	FS26 -	167 Vermont Avenue	0.210	2.96	42.4	38.5	123.00	1.80	4.64	1.11	180	0.808	0.710		<2.00	514	548
7/15/2010	FS14 -	Teakwood Drive	0.290	1.11	32.4	16.4	12.50	0.455	2.74	0.124	57.8	0.543	<1.5		<4.00	57.8	80
7/22/2010	FS42 -	Ford Street	0.132	2.21	18.6	19.0	83.20	0.768	3.22	0.181	241	0.715	<1.5		<4.00		152
7/29/2010	BS03 -	Bridal & Suffolk Way	0.101	1.83	28.3	2.31	48.50	0.641	3.67	0.232	105	0.707	<1.5	<5.00	<4.00	221.9	162
8/12/2010	BS04 -	Countryside Drive	0.352	1.68	29.4	2.96	35.50	0.837	3.99	0.525	128	0.516	<1.5	<5.00	<4.00	245.4	44
8/19/2010	FS41 -	Bellevue Avenue	0.230	5.22	33.7	19.5	135.00	0.834	7.56	0.500	152	0.854	<1.5		8.95	800.8	178
8/26/2010	BS17 -	Oregon at Byron Ave	0.133	1.18	17.4	3.27	16.90	0.488	4.96	0.170	72.5	0.552	<1.5	<5.00	<4.00	134.8	86
9/9/2010	BS12 -	Jenks Avenue	0.199	3.03	39.3	41.2	121.00	<3	5.20	0.498	163	0.64	0.7583	<1.0	5.34	374.6	326
9/22/2010	BS09 -	Legion Drive	0.0846	1.25	41.6	3.27	31.40	1.08	3.37	0.248	57.5	0.704	<1.5	1.58	<4.00	201.2	117
9/30/2010	FS26 -	167 Vermont Avenue	0.0695	1.56	15.7	9.24	33.10	0.853	3.34	0.0849	48.1	0.719	0.699		2.87	213.1	70
10/7/2010	BS22 -	Buclin Street	0.0487	1.0028	9.32	4.39	19.50	0.275	1.20	0.167	28.2	0.356	<1.5	<5.00	<4.00	31.5	34
10/14/2010	FS05 -	Farm Street	0.496	0.675	16.3	9.96	76.60	1.73	1.98	0.5221	66.7	0.821	<1.5		<4.00	326.5	223
10/28/2010	FS38 -	Webb Street	<0.04	<0.5	1.68	<0.5	5.52	0.546	0.912	<0.03	6.56	0.435	<1.5		<4.00	<7.62	<2
11/3/2010	BS13 -	Erica at Bridle	0.0503	1.39	21.2	0.574	24.50	0.449	5.65	0.0352	29.0	0.762	<1.5	<5.00	<4.00	160.8	100
11/18/2010	BS14 -	Overland at Atwood	0.141	0.926	3.52	2.11	4.74	0.446	1.26	0.0737	16.4	0.398	<1.5	<5.00	<4.00	4.3	4
11/24/2010	BS06 -	Coyle Avenue	0.253	3.31	66.1	19.0	73.60	1.16	5.73	0.360	182	1.16	<1.5	<5.00	<4.00	304.2	280
12/2/2010	FS24 -	180 Indiana Avenue	0.130	1.18	19.6	8.40	36.40	0.866	4.41	0.100	97.0	0.853	<1.5		<4.00	293.65	202
12/9/2010	FS15 -	Wood Street	0.229	2.18	43.7	36.9	76.60	1.58	6.26	0.105	363	1.05	<1.5		<4.00	428	370
12/16/2010	FS16 -	Chapin Street	0.216	2.09	36.1	31.5	84.70	1.04	5.31	0.386	168	0.636	<1.5		<4.00	246.4	400

Table: 22 Sanitary Manhole Sampling Data

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Vol	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
A & F Plating Company	Sample Location # 1	11	1/14/2010	C	600			0.015	0.075	0.422	0.075	0.762	0.102	0.114	0.025					
A & F Plating Company	Sample Location # 1	11	6/28/2010	C	700			0.015	0.075	0.186	0.075	0.391	0.09	0.039	0.025					
A. Harrison & Company, Inc.	Sample Location # 1	22	10/5/2010	C	0	1		0.015	0.075	0.02	0.075	0.05	0.06	0.008	0.025			0.035	4.88	
A. Harrison & Company, Inc.	Sample Location # 1	22	6/16/2010	G				0.015	0.075	0.021	0.075	0.05	0.06	0	0.025				4.5	
A. Harrison & Company, Inc.	Sample Location # 1	22	10/5/2010	G				0.015	0.075	0.02	0.075	0.05	0.06	0.008	0.025			0.035	4.88	
A.T. Cross Company	Sample Location # 3	59	5/24/2010	G				0.015	0.075	0.191	0.075	0.05	0.06		0.025					
A.T. Cross Company	Sample Location # 3	59	10/27/2010	G				0.015	0.015	0.247	0.08	0.05	0.06		0.025					
AG&G Incorporated	Sample Location # 1	11	6/28/2010	C	1870			0.033	0.611	0.54	0.075	0.537	0.099	0.018	0.061					
AG&G Incorporated	Sample Location # 1	11	1/6/2010	C	1646			0.015	1.14	0.54	0.075	0.673	0.06	0.011	0.049					
Accent Plating Company	Sample Location # 1	11	9/22/2010	C	1992			0.015	0.075	0.136	0.075	0.05	0.257	0.008	0.02					
Accent Plating Company	Sample Location # 1	11	8/5/2010	C	1341			0.015	0.075	1.253	0.075	0.165	0.484	0.025	0.02					
Accent Plating Company	Sample Location # 1	11	1/11/2010	C	2854			0.015	0.075	0.037	0.075	0.05	0.06	0.015	0.04					
Al-Jac Produce	Sample Location # 1	81	7/19/2010	C	0	1										761	28873			
Al-Jac Produce	Sample Location # 1	81	9/1/2010	C	240											213.59	47315			
Al-Jac Produce	Sample Location # 1	81	2/24/2010	C	0	1										11842.5	11712			
Al-Jac Produce	Sample Location # 1	81	7/19/2010	C	434											761	28873			
Alpha Plating & Metallizing	Sample Location # 1	11	6/28/2010	C	7900			0.015	0.075	0.056	0.075	0.052	0.06	0.081	0.025					
Alpha Plating & Metallizing	Sample Location # 1	11	1/11/2010	C	9000			0.015	0.075	0.216	0.075	0.159	0.06	0.359	0.025					
Angelica Textile Service	Sample Location # 1	25	7/8/2010	C	30743											535.5	44		40.64	
Angelica Textile Service	Sample Location # 1	25	1/11/2010	C	36675											274	40		48.59	
Armbrust International, Ltd.	Sample Location # 1	11	8/30/2010	C	7405			0.015	0.075	0.255	0.075	0.219	0.76	0.004	0.11					
Armbrust International, Ltd.	Sample Location # 1	11	3/29/2010	C	7256			0.015	0.075	0.238	0.075	0.135	0.107	0.138	0.418					
Aspen Aerogels Rhode Island, LLC	Sample Location # 1	27	2/15/2010	C	0			0.015	0.075	0.081	0.075	0.05	0.096		0.02		12	0.007	4.5	
Aspen Aerogels Rhode Island, LLC	Sample Location # 1	27	9/8/2010	G		0		0.015	0.075	0.088	0.075	0.05	0.112		0.02	465.6	8	0.003	4	
Austin Metal Finishing Inc.	Sample Location # 1	11	10/14/2010	G				0.015	0.269	0.209	0.075	0.309	0.083	0.28	0.02				4.5	
Austin Metal Finishing Inc.	Sample Location # 1	11	7/9/2010	G										0.542						
Austin Metal Finishing Inc.	Sample Location # 1	11	6/10/2010	G				0.015	0.231	0.093	0.075	0.161	0.06		0.02				7.47	
Autocrat, Inc.	Sample Location # 1	34	5/25/2010	C	36329											4716	186			
Autocrat, Inc.	Sample Location # 1	34	10/19/2010	C	0	1										2206	83			
Autocrat, Inc.	Sample Location # 1	34	5/25/2010	C	0	1										4716	186			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	7/28/2010	C	0	1										3610	7034			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	2/23/2010	C	0	1										4756	16895			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	7/28/2010	C	3067											3610	7034			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	11/17/2010	C	0	1										2720	4690			
Bliss Manufacturing	Sample Location # 1	11	9/27/2010	C	0	1		0.015	0.075	0.091	0.075	0.05	0.06	0.009	0.025					
Bliss Manufacturing	Sample Location # 1	11	3/15/2010	C	780			0.015	0.075	0.047	0.075	0.05	0.06	0.005	0.025					
Bunge North America (East), LLC	Sample Location # 1	34	12/29/2010	C	26000	26000										3.24	8		4	
Bunge North America (East), LLC	Sample Location # 1	34	2/9/2010	C	22000											15.4	5		4.5	
C&C Rhode Island, LLC	Sample Location # 1	11	2/8/2010	C	14436			0.015	0.075		0.075				0.025					T.RES.CHLORINE = .006
C&C Rhode Island, LLC	Sample Location # 1	11	8/16/2010	C	13015			0.015	0.075		0.075			0.015	0.025					T.RES.CHLORINE = .006
C&J Jewelry Company	Sample Location # 1	11	6/29/2010	C	2530			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
C&J Jewelry Company	Sample Location # 1	11	1/19/2010	C	1540			0.015	0.075	0.034	0.075	0.05	0.06	0.007	0.032					
Callico Metals	Sample Location # 1	12	12/8/2010	C	748			0.015	0.075	0.02	0.075	0.05	0.06		0.025				4.5	
Callico Metals	Sample Location # 1	12	6/24/2010	C	3300			0.015	0.075	0.02	0.075	0.05	0.06		0.025				4.5	
Charisma Manufacturing	Sample Location # 1	11	2/12/2010	G	0			0.015	0.075	0.116	0.08	0.079	0.113	0.004	0.025					
Charisma Manufacturing	Sample Location # 1	11	7/26/2010	G	0	0		0.015	0.075	0.163	0.08	0.125	0.128	0.004	0.025					
Chemart Company	Sample Location # 1	11	6/23/2010	C	14000			0.015	0.075	0.057	0.075	0.095	0.06	0.004	0.025					
Chemart Company	Sample Location # 1	11	1/11/2010	C	8500			0.015	0.075	0.549	0.075	0.609	0.083	0.004	0.025					
Chemart Company	Sample Location #3	11	6/23/2010	G		50		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
Chemart Company	Sample Location #3	11	2/23/2010	C		25		0.015	0.075	0.02	0.075	0.05	0.06	0.004	1.931					
Cintas, Inc.	Sample Location # 1	25	10/20/2010	C	0	1		0.015	0.075	0.231	0.075	0.05	0.142	0.004	0.025	249.5	136	0.11	63.84	
Cintas, Inc.	Sample Location # 1	25	6/16/2010	C	92390			0.018	0.063	0.082	0.063			0.009		281.3				
Clayton Company & Claverick Realty	Sample Location # 1	11	7/28/2010	C	135			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
Clayton Company & Claverick Realty	Sample Location # 1	11	10/19/2010	C	494			0.033	0.075	0.02	0.075	0.05	0.06	0.004	0.025					

Table: 23 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Vol	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Collegium Pharmaceutical	Sample Location # 1	14	9/29/2010	G		364		0.015	0.075	0.157	0.075	0.05	0.144		0.025	1383	108	1.887	108.95	ISOPROPYL ACETATE = .05, ACETONE = 1.7, N-AMYL ACETATE = .05
Collegium Pharmaceutical	Sample Location # 1	14	5/27/2010	G		379		0.015	0.075	0.16	0.075	0.05	0.251	0.02	0.025	5537.1	67		4.5	
Conopco - O'Toole Site	Sample Location # 1	40	10/7/2010	C														0.003		
Conopco - O'Toole Site	Sample Location # 1	40	7/26/2010	C	200													0.285		
Contract Specialties, Inc.	Sample Location # 1	11	1/14/2010	C	2498			0.015	0.075	0.026	0.075	0.05	0.06	0.004	0.025					
Contract Specialties, Inc.	Sample Location # 1	11	7/14/2010	C	499			0.015	0.075	0.024	0.075	0.31	0.06	0.004	0.025					
Crisloid, Inc.	Sample Location # 1	21	9/20/2010	G				0.015	0.075	0.02	0.075	0.05	0.06		0.025	2	71			
Crisloid, Inc.	Sample Location # 1	21	4/22/2010	G				0.015	0.075	0.02	0.075	0.05	0.06		0.025	1.58	10			
Darlene Group	Sample Location # 1	11	7/19/2010	C	411			0.015	0.075	0.031	0.075	0.05	0.06	0.003	0.025					
Darlene Group	Sample Location # 1	11	2/15/2010	C	0	1		0.015	0.075	0.032	0.075	0.05	0.06	0.008	0.025					
Denison Pharmaceuticals Inc.	Sample Location # 1	14	11/17/2010	C		500		0.015	0.075	0.02	0.075	0.05	0.06		0.025	4722	6	0.021	4	ISOPROPYL ACETATE = .01, ACETONE = .18, N-AMYL ACETATE = .01, ETHYL ACETATE = .01
Denison Pharmaceuticals Inc.	Sample Location # 1	14	6/7/2010	G		500		0.015	0.188	0.188	0.075	0.124	1.538		0.025	4980.6	395		68.35	
DiFruscia Industries, Inc.	Sample Location # 1	11	2/3/2010	C	3067			0.015	0.201	0.423	0.075	0.164	0.06	0.005	0.025					
DiFruscia Industries, Inc.	Sample Location # 1	11	7/28/2010	C				0.015	0.193	0.7	0.075	0.23	0.102	0.001	0.025					
Dominion Energy Manchester Street, Inc.	Marsh McBirney Meter Calibration	27	6/14/2010	C	0	1		0.015	0.075	0.02	0.08	0.05	0.06		0.025					
Dominion Energy Manchester Street, Inc.	Sample Location # 1	27	10/25/2010	C	95915			0.015	0.075	0.02										
Dominion Energy Manchester Street, Inc.	Sample Location # 1	27	6/14/2010	C	91640			0.015	0.075	0.02										
E&M Enterprises, LTD	Sample Location # 1	11	8/30/2010	C	1910			0.015	0.075	0.038	0.075	0.05	0.06	0.008	0.025					
E&M Enterprises, LTD	Sample Location # 1	11	4/29/2010	C	2160			0.015	0.075	1.78	0.075	0.194	0.06	1.243	0.025					
Eagle Laundry Inc.	Sample Location # 1	25	12/9/2010	G												635	112		60.35	
Eagle Laundry Inc.	Sample Location # 1	25	12/7/2010	C	0	1										623.2	122		134.15	
Eagle Plating Company, Inc.	Sample Location # 1	11	8/11/2010	C	975			0.015	0.075	0.086	0.075	0.05	0.06	0.247	0.025					TOTAL METAL-EPA = .27
Eagle Plating Company, Inc.	Sample Location # 1	11	1/20/2010	C	823	0		0.015	0.075	0.02	0.075	0.05	0.06	0.155	0.025					
Eastern Color & Chemical Co.	Sample Location # 1	22	5/19/2010	C	900			0.015	0.075	0.05	0.075	0.05	0.489		0.025	654.3	814		263.96	
Eastern Color & Chemical Co.	Sample Location # 1	22	1/13/2010	C	1150			0.015	0.075	0.045	0.075	0.05	1.004	0.016	0.025	238.8	58	0.025	180.81	
Eastern Screw Company	Sample Location # 1	26	6/30/2010	G		800		0.015	0.075	0.02	0.075	0.137	0.06		0.025				7.87	OIL & GREASE = 5.62
Ecological Fibers - Pawtucket	Sample Location # 1	24	1/28/2010	C	0	1		0.015	0.075	0.02	0.075	0.05	0.557		0.025	174.8	136	0.004		
Electrolizing, Inc.	Sample Location # 1	11	3/3/2010	C	0	1		0.018	0.349	0.029	0.075	0.05	0.304	0.03	0.025					
Electrolizing, Inc.	Sample Location # 1	11	8/23/2010	C	4937			0.015	0.258	0.02	0.075	0.05	0.604	0.004	0.025					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	5/19/2010	C	4210			0.015	0.075	0.28	0.075	0.204	1.001	0.005	0.025					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	10/27/2010	C	1257			0.017	0.075	0.038	0.075	0.136	0.419	0.004	0.025					
Fujifilm Electronic Materials USA, Inc.	Sample Location # 2	22	6/15/2010	G		1925		0.015	0.075	0.223	0.08	0.05	1.049		0.025		74		7.13	
Fujifilm Electronic Materials USA, Inc.	Sample Location # 2	22	10/6/2010	G		2000		0.015	0.075	0.102	0.08	0.05	0.153		0.025					
G. Tanury Plating Company	Sample Location # 1	11	1/20/2010	C	42038			0.015	0.075	0.661	0.075	0.212	0.193	0.004	0.025					
G. Tanury Plating Company	Sample Location # 1	11	8/2/2010	C	54454			0.015	0.075	0.867	0.075	0.294	0.06	0.03	0.025					TOTAL METAL-EPA = 1.3
General Cable Industries, LLC	Sample Location # 1	27	3/3/2010	C	4412			0.015	0.075	0.229	0.075	0.05	0.367		0.025	720.4	36		5.36	
General Cable Industries, LLC	Sample Location # 1	27	9/16/2010	C	3371			0.015	0.075	0.345	0.075	0.05	0.673		0.025	32.53	44		22.1	
General Plating Company	Sample Location # 1	11	8/12/2010	C	150			0.014	0.067	0.842	0.08	0.148	0.086	0.488	0.043					TOTAL METAL-EPA = 1.14
General Plating Company	Sample Location # 1	11	1/20/2010	C	300			0.014	0.067	0.501	0.08	0.096	0.046	0.542	0.09					
George H. Fuller & Son	Sample Location # 1	11	8/2/2010	C	500			0.015	0.075	0.039	0.08	0.054	0.06	0.004	0.025					
George H. Fuller & Son	Sample Location # 1	11	1/6/2010	C	606			0.015	0.075	0.078	0.08	0.05	0.06	0.006	0.025					
HP Services, Inc.	Sample Location # 1	11	10/20/2010	G		100		0.015	0.075	0.027	0.075	0.05	0.084	0.003	0.025				4	
HP Services, Inc.	Sample Location # 1	11	11/17/2010	C		200		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025				4	
Herff Jones, Inc.	Sample Location # 1	11	3/1/2010	C	2790			0.015	0.075	0.134	0.075	0.05	0.06	0.005	0.029					
Herff Jones, Inc.	Sample Location # 1	11	8/16/2010	C	3540			0.015	0.11	0.136	0.075	0.203	0.06	0.006	0.226					
Hillview Auto Body	Sample Location # 1	97	4/21/2010	G				0.015	0.075		0.08	0.058			0.025					
Hillview Auto Body	Sample Location # 1	97	9/15/2010	G	0			0.015	0.075		0.08	0.05			0.025			0.005		
Hord Crystal Corporation	Sample Location # 1	11	3/2/2010	C		260		0.015	0.075	0.039	0.075	0.05	0.174	0.006	0.025					
Hord Crystal Corporation	Sample Location # 1	11	8/25/2010	G		300		0.015	0.075	0.072	0.075	0.05	0.06	0.127	0.025					

Table: 23 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Vol	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
IDEAL POLISHING AND PLATING	Sample Location # 1	71	11/3/2010	C	0	1		0.015	0.39	0.478	0.075	0.329	0.118	0.011	0.025					
Ideal Plating & Polishing Co., Inc.	Sample Location # 1	11	9/17/2010	C	2917			0.015	0.209	0.835	0.075	0.65	0.239	0.737	0.025					
Ideal Plating & Polishing Co., Inc.	Sample Location # 1	11	11/3/2010	C	1500			0.015	0.39	0.478	0.075	0.329	0.118	0.011	0.025					
Ideal Plating & Polishing Co., Inc.	Sample Location # 1	11	8/16/2010	C	2169			0.039	0.973	1.287	0.085	0.874	0.582	0.045	0.037					
Ideal Plating & Polishing Co., Inc.	Sample Location # 1	11	2/24/2010	C	2025			0.02	0.463	1.836	0.075	1.062	0.256	2.286	0.026					
Impco, Inc.	Sample Location # 1	27	9/8/2010	C	12660			0.015	0.075	0.02	0.08	0.05	0.06		0.025					VOC = .003
Impco, Inc.	Sample Location # 1	27	2/23/2010	C	11348			0.015	0.075	0.02	0.08	0.05	0.075		0.025			0.039		
Induplate LLC	Sample Location # 1	11	7/12/2010	C	5447			0.015	0.366	0.076	0.08	0.051	1.325	0.004	0.025					
Induplate LLC	Sample Location # 1	11	1/11/2010	C	11961			0.015			0.08			0.004	0.025					
International Chromium Plating	Sample Location # 1	11	9/2/2010	C	1795			0.015	0.075	0.082	0.075	0.237	0.06	0.36	0.02					TOTAL METAL-EPA = .45
International Chromium Plating	Sample Location # 1	11	3/3/2010	C	1047			0.015	0.671	0.03	0.075	0.089	0.136	0.474	0.02					
International Etching, Inc.	Sample Location # 1	11	1/19/2010	C	4189			0.015	0.075	0.02	0.08	0.05	0.06	0.004	0.025					
International Etching, Inc.	Sample Location # 1	11	6/21/2010	C	4390			0.015	0.075	0.02	0.08	0.05	0.06	0.005	0.025					
International Insignia Corporation	Sample Location # 1	11	9/22/2010	C	7100			0.015	0.075	0.219	0.08	0.39	0.075	0.004	0.025					
International Insignia Corporation	Sample Location # 1	11	3/29/2010	C	4600			0.015	0.075	2.928	0.08	0.761	0.582	0.011	0.025					
Interplex Engineered Products, Inc.	Sample Location # 1	11	3/30/2010	C	50090			0.015	0.075	0.02	0.075	0.439	0.06	0.017	0.025					
Interplex Engineered Products, Inc.	Sample Location # 1	11	5/26/2010	C	53867			0.015	0.075	0.02	0.075	0.135	0.06	0.016	0.025					
Ira Green, Inc.	Sample Location # 1	11	6/9/2010	C	16000			0.015	0.075	0.02	0.075	0.091	0.06	0.03	0.025					
Ira Green, Inc.	Sample Location # 1	11	9/27/2010	C	18000			0.015	0.075	0.037	0.075	0.05	0.06	0.004	0.025					
JRB Associates Inc.	Sample Location # 1	11	9/20/2010	C	6600			0.015	0.075		0.075		0.06		0.025					
JRB Associates Inc.	Sample Location # 1	11	8/16/2010	C	5040			0.015	0.075		0.075			0.004	0.574					
JRB Associates Inc.	Sample Location # 1	11	1/13/2010	C	4700			0.015	0.075		0.075			0.017	0.025					
John H. Collins & Sons Company	Sample Location # 1	27	2/15/2010	C	1780			0.015	0.075	0.073	0.075	0.059	0.923		0.072			0.248	6.32	
John H. Collins & Sons Company	Sample Location # 1	27	8/18/2010	C	1424			0.015	0.075	0.033	0.075	0.05	0.282		0.101			0.24	8.45	
Lee's Manufacturing	Sample Location # 1	43	2/11/2010	C	3815			0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Lee's Manufacturing	Sample Location # 1	43	7/26/2010	C				0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Liquid Blue	Sample Location # 1	23	10/4/2010	C	0	1		0.015	0.075	0.069	0.075	0.05	0.374		0.025	171.8	72			
Liquid Blue	Sample Location # 1	23	6/7/2010	C	0	1		0.015	0.075	1.052	0.08	0.05	0.366		0.025	1585	12			
Liquid Blue	Sample Location # 2	23	10/4/2010	C	0	1		0.015	0.075	0.205	0.08	0.05	0.133		0.025	563	12			
Liquid Blue	Sample Location # 2	23	6/7/2010	G				0.015	0.075	1.052	0.08	0.05	0.366		0.025	1585	12			
Mahr Federal Inc.	Sample Location # 1	11	8/16/2010	C	1498			0.015	0.236	0.033	0.075	0.05	0.118	0.004	0.025				4.5	
Mahr Federal Inc.	Sample Location # 1	11	2/17/2010	C	568			0.015	0.877	0.036	0.075	0.05	0.419	0.001	0.025					
Mahr Federal Inc.	Sample Location # 2	11	9/27/2010	G		25		0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.027		
Mahr Federal Inc.	Sample Location # 2	11	8/16/2010	G		25		0.015	0.075	0.127	0.075	4.709	0.06		0.18			0.005		
Mahr Federal Inc.	Sample Location # 2	11	2/17/2010	G		25		0.015	0.075	0.022	0.075	0.081	0.06		0.025			0.004		
Metallurgical Solutions, Inc.	Sample Location # 1	11	10/1/2010	C	0	1		0.015	0.217	0.029	0.075	0.097	0.06	0.004	0.025					
Metallurgical Solutions, Inc.	Sample Location # 1	11	6/7/2010	G				0.015	0.795	0.058	0.075	0.189	0.06	0.01	0.025					
Microfibres, Inc.	Sample Location # 1	23	8/5/2010	C	99310			0.015	0.073	0.024	0.08	0.05	0.031		0.025	251	338		16.62	
Microfibres, Inc.	Sample Location # 1	23	2/9/2010	C	0	1		0.015	0.316	0.049	0.08	0.05	0.056		0.025	628	208		4.5	
Monarch Metal Finishing Company	Sample Location # 1	11	3/1/2010	C	7405			0.014	0.067		0.08				0.073					
Monarch Metal Finishing Company	Sample Location # 1	11	2/8/2010	C	10098			0.015	0.075		0.08				0.025					
Monarch Metal Finishing, Inc.	Sample Location # 1	11	9/22/2010	C	8303			0.015	0.075	0.373	0.08	0.159	0.319	0.166	0.04					
Murdock Webbing Co., Inc.	Sample Location # 1	23	7/26/2010	C	7800			0.015	0.075	0.105	0.075	0.05	0.06		0.025	2272	96		24.56	
Murdock Webbing Co., Inc.	Sample Location # 1	23	1/7/2010	C	5460			0.015	0.075	0.142	0.075	0.05	0.06		0.025	605	451		83.25	
Murdock Webbing Co., Inc.	Sample Location # 1	23	11/22/2010	C	7106			0.015	0.234	0.057	0.075	0.05	0.116		0.025	805	50		50.73	
NGC INC.	Sample Location # 1	81	9/15/2010	G		9275										6430.5	131		8.12	
NGC INC.	Sample Location # 1	81	5/10/2010	C		7106										1258	204		10.87	
New England Linen Supply, Inc.	Sample Location # 1	25	3/16/2010	C	6170											229.8	405		264.17	
New England Linen Supply, Inc.	Sample Location # 1	25	2/23/2010	C	0	1										753	342		113.45	
New England Linen Supply, Inc.	Sample Location # 1	25	11/17/2010	C	0	1										1441	650		497.94	
Nulco Manufacturing Corporation	Sample Location # 1	11	2/8/2010	C	8004			0.015	0.075	0.058	0.08	0.189	0.06	0.002	0.025					
Nulco Manufacturing Corporation	Sample Location # 1	11	8/19/2010	C	7050			0.015	0.075	0.033	0.08	0.19	0.06	0.004	0.025					
Ocean State Peeled Potatoes	Sample Location # 1	81	11/29/2010	C												409.8	422			
Ocean State Peeled Potatoes	Sample Location # 1	81	9/1/2010	G	598											277	522			
Ocean State Peeled Potatoes	Sample Location # 1	81	9/1/2010	C	0	1										277	522			

Table: 23 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Vol	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Ocean State Peeled Potatoes	Sample Location # 1	81	6/7/2010	C	0	1										1302	127			
Ocean State Peeled Potatoes	Sample Location # 1	81	6/7/2010	C	374											1302	127			
Osram Sylvania Products, Inc.	Sample Location # 1	27	10/21/2010	C	0	1		0.015	0.182	0.091	0.075	0.422	0.06		0.025		106		4.57	
Osram Sylvania Products, Inc.	Sample Location # 1	27	7/2/2010	G		3938		0.015			0.075		0.06		0.025		108			
Osram Sylvania Products, Inc.	Sample Location # 1	27	7/29/2010	G		2625		0.015	0.2	0.124	0.075	0.447	0.06		0.025	87.4	94		12.72	
Osram Sylvania, Inc.	Sample Location # 1	27	10/21/2010	G		3281		0.015			0.075		0.06		0.025		106			
Osram Sylvania, Inc.	Sample Location # 1	27	11/10/2010	G		3281		0.015	0.248	0.173	0.075	0.539	0.06		0.025		134		20.75	
Pawtucket Power Associates	Sample Location # 1	16	7/14/2010	C	1673			0.015		0.076	0.075				0.025					
Pawtucket Power Associates	Sample Location # 1	16	5/17/2010	C	1088			0.015	0.075	0.03	0.075	0.05	0.06		0.025				4.5	
Pawtucket Power Associates	Sample Location # 2	16	11/29/2010	G				0.015	0.075	0.02	0.08	0.05	0.06		0.017					
Pawtucket Power Associates	Sample Location # 3	16	8/25/2010	C	300			0.015	0.075	0.02	0.08	0.05	0.06		0.025					
Pawtucket Power Associates	Sample Location # 4	16	5/17/2010	C	6340			0.015	0.075	0.027	0.075	0.05	0.06		0.025					
Pawtucket Power Associates	Sample Location # 4	16	7/14/2010	C	27357			0.015			0.075		0.06		0.025					
Pilgrim Screw Corporation	Sample Location # 1	11	12/3/2010	G		100		0.015	0.075	0.02	0.075	0.05	0.399	0.317	0.025				171.84	
Pilgrim Screw Corporation	Sample Location # 1	11	7/20/2010	G		400		0.015	0.075	0.02	0.075	0.05		0.216	0.025					
Prov. Journal Co. - Production Facility	Sample Location #2	24	9/30/2010	C	80			0.015	0.075	0.02	0.075	0.05	0.103		0.025					
Prov. Journal Co. - Production Facility	Sample Location #2	24	4/29/2010	C	10			0.015	0.075	0.046	0.075	0.05	0.179		0.162					
Providence Chain Company	Sample Location # 1	11	1/12/2010	C	2490			0.015	0.075	0.209	0.08	0.05	0.029	0.028	0.028					
Providence Metallizing Company, Inc.	Sample Location # 1	11	6/15/2010	C	19749						0.065	0.049	0.04		0.018					TOTAL METAL-EPA = .089
Providence Metallizing Company, Inc.	Sample Location # 1	11	12/7/2010	C	12268			0.015	0.355	0.241	0.08	0.276	0.06	0.004	0.025					
Providence Specialty Products	Sample Location # 1	34	11/8/2010	C	0	1										63.8	61		19.46	
Providence Specialty Products	Sample Location # 1	34	10/18/2010	C	0	1										48.2	23		4	
Providence Specialty Products	Sample Location # 1	34	6/23/2010	G		300										56.4	6		4.88	
Providence Specialty Products	Sample Location # 2	34	6/23/2010	C	6732											29098	963		19.84	
Providence Specialty Products	Sample Location # 2	34	12/6/2010	C	0	1										24615	1240		46.94	
Providence Specialty Products	Sample Location # 2	34	11/8/2010	C	0	1										35100	560		240.74	
Providence Specialty Products	Sample Location # 2	34	10/18/2010	C	700											24600	2291		163.8	
R. E. Sturdy Company, Inc.	Sample Location # 1	11	9/20/2010	C	2693			0.014	0.067	2.86	0.08	0.468	0.341	0.022	0.122					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	2/17/2010	C	2244			0.014	0.067	1.631	0.08	0.581	0.343	0.008	0.104					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	9/8/2010	C	3516			0.015	0.075	2.034	0.08	0.299	0.055	0.048	0.124					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	11/15/2010	C	3075			0.015	0.075	2.001	0.08	0.4	0.289	0.035	0.141					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	10/20/2010	C	3441			0.015	0.075	2.186	0.08	0.237	0.286	0.005	0.085					
Regal Plating Company	Sample Location # 1	11	2/18/2010	C	2319			0.014	0.075		0.08		0.06	0.026	0.048					TOTAL METAL-EPA = .135
Regal Plating Company	Sample Location # 1	11	6/21/2010	G	1000			0.015	0.075	0.171	0.08	0.119	0.028	0.009	0.025					TOTAL METAL-EPA = .39
Regal Plating Company	Sample Location # 1	11	3/26/2010	C	1122			0.015	0.075		0.08		0.06	0.566	0.232					TOTAL METAL-EPA = .135
Ronald Pratt Company, Inc.	Sample Location # 1	11	2/8/2010	C	60			0.015	0.075	0.02	0.08	0.05	0.06	0.004	0.025					
Ronald Pratt Company, Inc.	Sample Location # 1	11	2/1/2010	C	520			0.014	0.067	0.042	0.08	0.05	0.028	0.005	0.017					
Stackbin Corporation	Sample Location # 1	11	7/19/2010	G		1150		0.015	0.075	0.075	0.075	0.05	0.06	0.052	0.025			0.003	12	
Stackbin Corporation	Sample Location # 1	11	10/12/2010	G	0	1150		0.015	0.075	0.088	0.075	0.064	0.1	0.123	0.025				37.43	
Stackbin Corporation	Sample Location # 2	11	7/19/2010	G		600		0.015	0.075	0.02	0.075	0.05	0.06	0.138	0.025					
Stackbin Corporation	Sample Location # 2	11	10/12/2010	C	0	1		0.015	0.075	0.061	0.075	0.05	0.06	0.299	0.025				5.81	
Stackbin Corporation	Sample Location # 2	11	7/19/2010	C	0	1		0.015	0.075	0.02	0.075	0.05	0.06	0.138	0.025					
Summit Manufacturing Corporation	Sample Location # 1	11	7/12/2010	C	9525			0.015	0.075	0.176	0.08	0.084	0.06	0.004	0.025					
Summit Manufacturing Corporation	Sample Location # 1	11	1/6/2010	C	7181			0.015	0.118	0.15	0.08	0.227	0.06		0.025					
Surface Coatings Div. of Westwell Ind.	Sample Location # 1	11	2/3/2010	C	3964			0.015	0.243	0.291	0.08	0.545	4.071	0.005	0.025					
Surface Coatings Div. of Westwell Ind.	Sample Location # 1	11	2/2/2010	C	2768			0.015	0.075	0.105	0.08	0.431	0.862	0.003	0.025					
Surface Coatings Div. of Westwell Ind.	Sample Location # 1	11	8/30/2010	C	3366			0.014	0.213	0.066	0.08	0.138	0.397	0.004	0.017					
Tanury Industries	Sample Location # 1	11	5/19/2010	C	25210			0.015	0.075	0.63	0.075	0.632	0.06	0.274	0.154					
Tanury Industries	Sample Location # 1	11	11/5/2010	C	86310			0.015	0.075	0.263	0.075	0.614	0.06	0.051	0.025					
Tanury Industries	Sample Location # 1	11	10/18/2010	C	29260			0.015	0.075	0.698	0.075	2.567	0.071	0.113	0.166					
Tanury Industries PVD, Inc.	Sample Location # 1	11	11/5/2010	C	0	1		0.015	0.415	0.704	0.075	0.553	0.231	0.02	0.048					
Tanury Industries PVD, Inc.	Sample Location # 1	11	6/30/2010	G		400		0.018	0.084	0.253				0.021						
Technical Materials, Inc.	Sample Location # 1	11	11/29/2010	C	40400			0.015	0.075	0.02	0.075	0.05	0.06	0.008	0.025					
Technical Materials, Inc.	Sample Location # 1	11	5/24/2010	C	56100			0.015	0.075	0.02	0.075	0.141	0.06	0.016	0.046					
Technodic, Inc.	Sample Location # 1	11	5/3/2010	C	5909			0.015	0.64	0.164	0.075	0.15	0.076	0.01	0.025					TOTAL METAL-EPA = 1.03

Table: 23 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Vol	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Technodic, Inc.	Sample Location # 1	11	9/8/2010	C	7181			0.015	0.856	0.106	0.075	0.05	0.06	0.032	0.025					TOTAL METAL-EPA = 1.07
Tedor Pharma Inc.	Sample Location # 1	14	10/26/2010	G				0.015	0.075	0.28	0.075	0.065	0.437		0.025	337.5	66	0.19	8.25	N-AMYL ACETATE = .005, ACETONE = .03, ETHYL ACETATE = .005, ISOPROPYL ACETATE = .005, METHYLENE CHLORIDE = .005
Tedor Pharma Inc.	Sample Location # 1	14	9/29/2010	G	0	1		0.015	0.709	0.887	0.075	0.506	4.154		0.025	1166	1395	0.005	195.36	ACETONE = .1, N-AMYL ACETATE = .05, ETHYL ACETATE = .1, ISOPROPYL ACETATE = .05
Tedor Pharma Inc.	Sample Location # 1	14	5/27/2010	G				0.015	0.075	0.189	0.075	0.05	0.314		0.025	504	18		83.98	
Teknicote, Inc. (Cumberland)	Sample Location # 1	11	5/27/2010	G		900		0.015	0.075	0.095	0.075	0.05	0.083	0.004	0.025					
Teknicote, Inc. (Cumberland)	Sample Location # 1	11	9/8/2010	G		500		0.015	0.075	0.158	0.075	0.05	0.083	0.004	0.025					
Tiffany and Company	Sample Location # 1	15	10/18/2010	C	591			0.015	0.075	0.062	0.08	0.05	0.06	0.004	0.025					
Tiffany and Company	Sample Location # 1	15	3/8/2010	C	243			0.014	0.067	0.015	0.08	0.05	0.028	0.004	0.017					
Tri-Jay Company	Sample Location # 1	11	6/23/2010	C	8677			0.015	0.075		0.075			0.034						
Tri-Jay Company	Sample Location # 1	11	1/20/2010	C	9500			0.015	0.075		0.075			0.382						
Tru-Kay Manufacturing Company	Sample Location # 1	11	6/30/2010	C	1202			0.015	0.075	0.023	0.08	0.071	0.06	0.007	0.025					
Tru-Kay Manufacturing Company	Sample Location # 1	11	1/11/2010	C	1015			0.015	0.075	0.1	0.08	0.066	0.06	0.004	0.025					
Truex, Inc.	Sample Location # 1	11	3/2/2010	C	2325			0.014	0.067	1.379	0.08	0.05	1.417	0.004	0.017				10.07	
Truex, Inc.	Sample Location # 1	11	10/4/2010	C	2543			0.015	0.075	1.701	0.08	0.05	0.932	0.008	0.025				17.8	
Truex, Inc.	Sample Location # 1	11	3/2/2010	C	0	1		0.014	0.067	1.379	0.08	0.05	1.417	0.004	0.017				10.07	
Truex, Inc.	Sample Location # 1	11	11/16/2010	C	2925			0.015	0.075	0.597	0.08	0.05	0.319	0.004	0.025				5.94	
Umicore USA, Incorporated	Sample Location # 1	22	3/15/2010	G		6000		0.015	0.075	0.02	0.02	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 1	22	10/4/2010	C		5100		0.015	0.075	0.02	0.02	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 2	22	10/4/2010	C	0	1800		0.015	0.075	0.021	0.075	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 2	22	3/16/2010	G		1500		0.015	0.075	0.035	0.075	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 3	22	3/16/2010	C	69714			0.015	0.075	0.02	0.08	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 3	22	11/17/2010	C	37325			0.015	0.075	0.02	0.08	0.05	0.06		0.025					
Uncas Manufacturing Co. - Niantic Avenue	Sample Location # 1	11	2/11/2010	C	5987			0.015	0.075	0.02	0.08	0.05	0.06	0.004	0.025					
Uncas Manufacturing Co. - Niantic Avenue	Sample Location # 1	11	7/26/2010	C	6283			0.015	0.075	0.043	0.08	0.05	0.06	0.004	0.019					
Unique Plating Company	Sample Location # 1	11	9/27/2010	C	1346			0.015	0.075	0.175	0.075	0.569	0.06	0.036	0.025					TOTAL METAL-EPA = .88
Unique Plating Company	Sample Location # 1	11	2/3/2010	C	1272			0.015	0.075	0.314	0.075	1.348	0.06	0.069	0.025					
Unique Plating Company	Sample Location # 1	11	7/28/2010	C	2618			0.015	0.075	0.347	0.075	0.526	0.06		0.025					TOTAL METAL-EPA = 1.01
Univar USA, Inc.	Sample Location # 1	22	10/20/2010	C		7000		0.015	0.126		0.075			0.003	0.025					
Univar USA, Inc.	Sample Location # 1	22	6/10/2010	C	7000			0.015	0.104	0.021	0.075	0.05	0.196	0.004	0.025					
Universal Plating Company, Inc.	Sample Location # 1	11	10/27/2010	C	1047	0		0.015	0.095	0.156	0.08	0.13	0.06	0.01	0.025					
Universal Plating Company, Inc.	Sample Location # 1	11	5/3/2010	C	599			0.015	0.075	0.298	0.08	0.05	0.037	0.011	0.025					
Vennerbeck Stern-Leach	Sample Location # 1	15	2/4/2010	G	0	0		0.015	0.075	0.051	0.08	0.05	0.094		0.025					
Vennerbeck Stern-Leach	Sample Location # 1	15	1/25/2010	C	0	0		0.014	0.067	0.164	0.08	0.05	0.133		1.567					
Victory Finishing Technologies	Sample Location # 1	11	10/14/2010	C				0.015	0.473	1.734	0.075	0.579	0.177	0.004	0.665					T.RES.CHLORINE = .013
Victory Finishing Technologies	Sample Location # 1	11	6/10/2010	C	2250			0.015		0.634		0.155	0.109							T.RES.CHLORINE = .012
Victory Finishing Technologies	Sample Location # 1	11	10/26/2010	C				0.015				3.731	19.23	26.77						T.RES.CHLORINE = 34
Victory Finishing Technologies	Sample Location # 1	11	5/5/2010	C	2618			0.015			0.075				0.094					T.RES.CHLORINE = .066
Victory Finishing Technologies	Sample Location # 1	11	1/26/2010	C	38597			0.015	0.08	0.164	0.075	0.178	0.069	0.816	0.025					T.RES.CHLORINE = .009
Victory Finishing Technologies	Sample Location # 1	11	1/25/2010	C	70012			0.015	0.252	0.429	0.075	0.421	0.339	0.683	0.025					T.RES.CHLORINE = .01
Victory Finishing Technologies	Sample Location # 1	11	10/25/2010	C				0.015		9.674	0.075	2.295	2.63							
Vital Diagnostics, Inc.	Sample Location # 1	22	7/19/2010	G		25		0.015	0.075	0.047	0.075	0.05	0.06		0.025			0.02		
Vital Diagnostics, Inc.	Sample Location # 1	22	11/9/2010	G		25		0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.008		
W.T. Wilson, Inc.	Sample Location # 1	11	3/1/2010	C		500		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
W.T. Wilson, Inc.	Sample Location # 1	11	8/25/2010	G		100		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					

Table: 23 NBC Significant Industrial User Sample Results

Septage Monitoring Data - 2010

Results in ppb dry weight

Sample NO.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
1001-0001	1/4/2010	15	15	2123	75	8138	20	265	75	1092	50	40	40	7073	60
1001-0002	1/5/2010	15	15	75	75	625	20	75	75	50	50	40	40	1153	60
1001-0003	1/6/2010	15	15	75	75	1253	20	75	75	50	50	40	40	1939	60
1001-0007	1/11/2010	15	15	150	75	1173	20	75	75	75	50	40	40	3634	60
1001-0008	1/12/2010	15	15	212	75	3710	20	254	75	119	50	40	40	10900	60
1001-0009	1/13/2010	15	15	75	75	481	20	75	75	50	50	40	40	1729	60
1001-0013	1/19/2010	15	15	634	75	6106	20	403	75	295	50	40	40	6699	60
1001-0014	1/20/2010	15	15	75	75	928	20	75	75	50	50	40	40	1686	60
1001-0015	1/21/2010	15	15	339	75	3427	20	218	75	151	50	40	40	3959	60
1001-0023	1/25/2010	15	15	125	75	4149	20	183	75	169	50	40	40	3726	60
1001-0022	1/26/2010	15	15	75	75	296	20	75	75	50	50	40	40	504	60
1001-0021	1/27/2010	15	15	213	75	1577	20	114	75	105	50	40	40	2921	60
1002-0001	2/1/2010	15	15	271	75	18553	20	546	75	173	50	40	40	13288	60
1002-0002	2/2/2010	15	15	167	75	2724	20	163	75	79	50	40	40	3491	60
1002-0003	2/3/2010	15	15	259	75	6388	20	217	75	137	50	40	40	8490	60
1002-0011	2/8/2010	15	15	193	75	4557	20	184	75	95	50	40	40	3855	60
1002-0010	2/9/2010	15	15	166	75	15463	20	370	75	94	50	61	40	5828	60
1002-0009	2/10/2010	15	15	603	75	19845	20	336	75	443	50	40	40	8472	60
1002-0013	2/15/2010	15	15	231	75	3979	20	134	75	193	50	40	40	4352	60
1002-0014	2/16/2010	15	15	232	75	5636	20	275	75	151	50	40	40	7485	60
1002-0015	2/17/2010	41	15	491	75	16100	20	1404	75	276	50	40	40	22180	60
1002-0021	2/24/2010	15	15	185	75	3858	20	253	75	98	50	40	40	6936	60
1002-0022	2/25/2010	15	15	146	75	1383	20	189	75	77	50	40	40	4676	60
1002-0023	2/26/2010	85	15	118	75	2105	20	355	75	73	50	40	40	5364	60
1003-0003	3/3/2010	15	15	102	75	7241	20	254	75	629	50	40	40	8148	60
1003-0004	3/4/2010	120	15	75	75	8091	20	639	75	213	50	40	40	7805	60
1003-0005	3/5/2010	15	15	75	75	1727	20	86	75	50	50	40	40	2900	60
1003-0009	3/11/2010	15	15	174	75	7518	20	309	75	192	50	40	40	11390	60
1003-0008	3/12/2010	24	15	153	75	10954	20	586	75	128	50	40	40	10446	60
1003-0007	3/13/2010	40	15	590	75	27437	20	911	75	1204	50	55	40	29186	60
1003-0016	3/18/2010	15	15	75	75	1197	20	75	75	50	50	40	40	980	60
1003-0017	3/19/2010	15	15	75	75	4489	20	77	75	71	50	40	40	3707	60

All values that were at or below the detection limit were reported at the detection limit

Table 24: Septage Sampling Data

Septage Monitoring Data - 2010

Results in ppb dry weight

Sample NO.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
1003-0018	3/20/2010	15	15	178	75	13400	20	265	75	198	50	40	40	10524	60
1003-0020	3/24/2010	15	15	75	75	543	20	75	75	50	50	40	40	2005	60
1003-0021	3/25/2010	15	15	75	75	318	20	75	75	50	50	40	40	1143	60
1003-0022	3/26/2010	15	15	75	75	3768	20	160	75	156	50	40	40	4179	60
1004-0004	4/1/2010	15	15	75	75	6900	20	75	75	190	50	40	40	2353	60
1004-0005	4/2/2010	15	15	75	75	3617	20	263	75	50	50	40	40	4307	60
1004-0006	4/3/2010	15	15	92	75	2452	20	120	75	79	50	40	40	2702	60
1004-0007	4/5/2010	15	15	116	75	1310	20	142	75	74	50	40	40	4095	60
1004-0008	4/6/2010	15	15	104	75	1121	20	509	75	84	50	40	40	3142	60
1004-0009	4/7/2010	15	15	268	75	3824	20	299	75	143	50	40	40	12491	60
1004-0013	4/12/2010	15	15	75	75	3308	20	157	75	127	50	40	40	5587	60
1004-0014	4/13/2010	15	15	127	75	8918	20	316	75	143	50	40	40	9562	60
1004-0015	4/14/2010	15	15	75	75	2410	20	120	75	50	50	40	40	3187	60
1004-0025	4/19/2010	15	15	150	75	4181	20	332	75	190	50	40	40	9267	60
1004-0026	4/20/2010	17	15	125	75	4472	20	243	75	143	50	40	40	7769	60
1004-0027	4/21/2010	15	15	75	75	8064	20	162	75	88	50	42	40	4631	60
1004-0034	4/29/2010	20	15	209	75	6936	20	543	75	243	50	40	40	12404	60
1004-0035	4/30/2010	15	15	75	75	751	20	75	75	50	50	40	40	1799	60
1004-0036	5/1/2010	15	15	75	75	1075	20	75	75	50	50	40	40	2064	60
1004-0028	5/3/2010	15	15	242	75	13257	20	389	75	372	50	40	40	17849	60
1004-0029	5/4/2010	30	15	284	75	10063	20	711	75	432	50	40	40	13362	60
1004-0030	5/5/2010	15	15	75	75	352	20	75	75	50	50	40	40	1205	60
1004-0031	5/13/2010	15	15	75	75	214	20	75	75	50	50	40	40	557	60
1004-0032	5/14/2010	15	15	75	75	453	20	75	75	50	50	40	40	619	60
1004-0033	5/15/2010	43	15	1050	75	2915	20	145	75	152	50	40	40	6148	60
1005-0001	5/20/2010	15	15	75	75	2811	20	345	75	52	50	40	40	5740	60
1005-0002	5/21/2010	20	15	110	75	3380	20	262	75	84	50	40	40	6713	60
1005-0003	5/22/2010	32	15	323	75	21082	20	809	75	325	50	107	40	24626	60
1005-0004	5/25/2010	15	15	89	75	2463	20	130	75	99	50	40	40	6528	60
1005-0005	5/26/2010	15	15	75	75	3850	20	243	75	93	50	40	40	3841	60
1005-0006	5/27/2010	15	15	75	75	309	20	78	75	50	50	40	40	754	60
1006-0001	6/1/2010	83	15	349	75	17376	20	2506	75	517	50	40	40	44797	60

All values that were at or below the detection limit were reported at the detection limit

Table 24: Septage Sampling Data

Septage Monitoring Data - 2010

Results in ppb dry weight

Sample NO.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
1006-0002	6/2/2010	15	15	75	75	12746	20	258	75	57	50	40	40	4567	60
1006-0003	6/3/2010	15	15	75	75	774	20	75	75	50	50	40	40	935	60
1006-0007	6/7/2010	21	15	252	75	14488	20	513	75	192	50	40	40	16930	60
1006-0008	6/8/2010	15	15	196	75	11306	20	337	75	204	50	40	40	11452	60
1006-0009	6/9/2010	15	15	141	75	6505	20	335	75	217	50	77	40	10068	60
1006-0013	6/16/2010	15	15	75	75	3005	20	162	75	85	50	40	40	4948	60
1006-0014	6/17/2010	57	15	631	75	28607	20	6695	75	1395	50	180	40	51874	60
1006-0015	6/18/2010	27	15	312	75	11670	20	3620	75	622	50	88	40	23178	60
1006-0019	6/22/2010	15	15	75	75	311	20	75	75	50	50	40	40	2101	60
1006-0020	6/23/2010	15	15	75	75	502	20	75	75	50	50	40	40	477	60
1006-0021	6/24/2010	28	15	476	75	12390	20	906	75	290	50	40	40	22502	60
1006-0025	6/30/2010	15	15	75	75	1791	20	88	75	63	50	40	40	1410	60
1006-0026	7/1/2010	15	15	75	75	238	20	75	75	50	50	40	40	1458	60
1006-0027	7/2/2010	15	15	75	75	3940	20	163	75	107	50	62	40	6199	60
1007-0001	7/6/2010	15	15	75	75	5697	20	182	75	158	50	40	40	5425	60
1007-0002	7/7/2010	15	15	97	75	4244	20	233	75	209	50	40	40	7705	60
1007-0003	7/8/2010	20	15	194	75	7385	20	436	75	300	50	40	40	14338	60
1007-0007	7/12/2010	15	15	129	75	6841	20	267	75	526	50	40	40	11929	60
1007-0008	7/13/2010	47	15	357	75	39300	20	1676	75	538	50	110	40	28570	60
1007-0009	7/14/2010	15	15	123	75	4384	20	83	75	87	50	40	40	4819	60
1007-0018	7/20/2010	15	15	184	75	12560	20	375	75	356	50	40	40	17160	60
1007-0017	7/21/2010	15	15	78	75	5510	20	153	75	192	50	40	40	8282	60
1007-0016	7/22/2010	15	15	75	75	1498	20	153	75	285	50	40	40	3455	60
1007-0022	7/29/2010	15	15	75	75	698	20	75	75	50	50	40	40	883	60
1007-0023	7/30/2010	15	15	75	75	5197	20	75	75	50	50	40	40	1937	60
1007-0024	7/31/2010	18	15	75	75	5592	20	235	75	289	50	41	40	7526	60
1008-0001	8/2/2010	17	15	206	75	18000	20	600	75	208	50	47	40	15240	60
1008-0002	8/3/2010	15	15	86	75	11187	20	323	75	289	50	40	40	10209	60
1008-0003	8/4/2010	15	15	160	75	6984	20	403	75	230	50	40	40	10798	60
1008-0009	8/12/2010	65	15	577	75	19258	20	2321	75	752	50	215	40	33074	60
1008-0010	8/13/2010	15	15	153	75	9839	20	721	75	374	50	45	40	13937	60
1008-0011	8/14/2010	49	15	659	75	25002	20	1529	75	736	50	104	40	30379	60

All values that were at or below the detection limit were reported at the detection limit

Table 24: Septage Sampling Data

Septage Monitoring Data - 2010

Results in ppb dry weight

Sample NO.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
1008-0015	8/19/2010	15	15	702	75	3742	20	285	75	341	50	55	40	9362	60
1008-0016	8/20/2010	15	15	75	75	440	20	75	75	50	50	40	40	1093	60
1008-0017	8/21/2010	15	15	75	75	72	20	75	75	50	50	40	40	306	60
1008-0020	8/24/2010	15	15	237	75	44372	20	598	75	288	50	41	40	18787	60
1008-0021	8/25/2010	15	15	75	75	9632	20	146	75	55	50	40	40	6476	60
1008-0022	8/26/2010	15	15	165	75	6043	20	268	75	206	50	40	40	10647	60
1008-0028	9/2/2010	15	15	76	75	5726	20	177	75	105	50	40	40	9310	60
1008-0029	9/3/2010	15	15	159	75	14320	20	357	75	804	50	40	40	10990	60
1008-0030	9/4/2010	15	15	75	75	1317	20	112	75	50	50	40	40	3351	60
1008-0023	9/8/2010	15	15	75	75	2871	20	95	75	61	50	40	40	3474	60
1008-0024	9/9/2010	30	15	447	75	15470	20	741	75	475	50	40	40	18393	60
1008-0025	9/10/2010	29	15	231	75	30158	20	1457	75	735	50	40	40	19940	60
1009-0001	9/13/2010	15	15	75	75	3427	20	141	75	365	50	40	40	6244	60
1009-0002	9/14/2010	46	15	406	75	28730	20	1987	75	1516	50	47	40	32340	60
1009-0003	9/15/2010	15	15	88	75	4703	20	143	75	329	50	40	40	8134	60
1008-0034	9/23/2010	15	15	75	75	2425	20	172	75	69	50	40	40	3119	60
1008-0035	9/24/2010	15	15	75	75	2605	20	138	75	108	50	40	40	4401	60
1008-0036	9/25/2010	15	15	75	75	399	20	75	75	50	50	40	40	544	60
1009-0004	9/30/2010	18	15	205	75	7902	20	366	75	196	50	40	40	16570	60
1009-0005	10/1/2010	15	15	161	75	4830	20	345	75	141	50	40	40	8542	60
1009-0006	10/2/2010	24	15	226	75	17010	20	703	75	376	50	84	40	17909	60
1010-0001	10/4/2010	17	15	266	75	8086	20	438	75	253	50	43	40	13980	60
1010-0002	10/5/2010	46	15	523	75	39499	20	1417	75	589	50	184	40	26200	60
1010-0003	10/6/2010	37	15	401	75	18700	20	656	75	557	50	157	40	26639	60
1010-0007	10/13/2010	15	15	75	75	2041	20	75	75	125	50	40	40	3443	60
1010-0008	10/14/2010	25	15	214	75	14123	20	302	75	357	50	42	40	17629	60
1010-0009	10/16/2010	25	15	608	75	37350	20	3249	75	207	50	40	40	25508	60
1010-0016	10/21/2010	15	15	97	75	3327	20	300	75	121	50	40	40	5497	60
1010-0017	10/22/2010	15	15	75	75	1797	20	146	75	171	50	40	40	4175	60
1010-0018	10/23/2010	15	15	75	75	1147	20	77	75	91	50	40	40	2698	60
1010-0021	10/25/2010	15	15	75	75	2411	20	87	75	58	50	40	40	3623	60
1010-0020	10/26/2010	15	15	141	75	3952	20	322	75	139	50	40	40	7884	60

All values that were at or below the detection limit were reported at the detection limit

Table 24: Septage Sampling Data

Septage Monitoring Data - 2010

Results in ppb dry weight

Sample NO.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
1010-0019	10/27/2010	15	15	219	75	5260	20	317	75	255	50	40	40	13976	60
1011-0001	11/1/2010	15	15	97	75	3490	20	304	75	165	50	40	40	5174	60
1011-0002	11/2/2010	18	15	86	75	4348	20	361	75	124	50	40	40	6535	60
1011-0003	11/3/2010	37	15	184	75	6205	20	1230	75	248	50	80	40	12446	60
1011-0004	11/8/2010	15	15	76	75	8830	20	75	75	89	50	40	40	5669	60
1011-0005	11/9/2010	30	15	231	75	26010	20	1167	75	430	50	46	40	16583	60
1011-0006	11/10/2010	15	15	237	75	3809	20	256	75	165	50	40	40	15997	60
1011-0007	11/15/2010	15	15	75	75	2045	20	85	75	69	50	40	40	3968	60
1011-0008	11/16/2010	15	15	75	75	2049	20	93	75	77	50	40	40	4028	60
1011-0009	11/17/2010	15	15	75	75	670	20	75	75	68	50	40	40	2480	60
1011-0013	11/22/2010	15	15	141	75	5902	20	388	75	224	50	40	40	9269	60
1011-0014	11/23/2010	15	15	97	75	4821	20	169	75	207	50	40	40	7445	60
1011-0015	11/24/2010	17	15	204	75	12241	20	299	75	269	50	40	40	14969	60
1012-0001	12/1/2010	44	15	385	75	10790	20	643	75	444	50	43	40	20547	60
1012-0002	12/2/2010	18	15	204	75	7709	20	412	75	331	50	40	40	12450	60
1012-0003	12/3/2010	15	15	198	75	4469	20	783	75	172	50	40	40	9324	60
1012-0007	12/6/2010	25	15	261	75	9451	20	451	75	360	50	40	40	15125	60
1012-0008	12/7/2010	58	15	836	75	20153	20	1626	75	907	50	106	40	47666	60
1012-0009	12/8/2010	15	15	243	75	5060	20	591	75	505	50	80	40	13518	60
1012-0010	12/15/2010	15	15	75	75	136	20	100	75	90	50	80	40	448	60
1012-0011	12/16/2010	15	15	135	75	4679	20	1343	75	197	50	80	40	15658	60
1012-0012	12/17/2010	15	15	75	75	759	20	100	75	90	50	80	40	1146	60
1012-0013	12/20/2010	15	15	116	75	6122	20	243	75	197	50	80	40	7947	60
1012-0014	12/21/2010	20	15	370	75	11225	20	478	75	497	50	80	40	17187	60
1012-0015	12/22/2010	15	15	75	75	1410	20	75	75	73	50	80	40	1822	60
1012-0020	12/28/2010	15	15	607	75	6212	20	275	75	453	50	80	40	12995	60
1012-0021	12/29/2010	15	15	174	75	4177	20	223	75	249	50	80	40	8949	60
1012-0022	12/30/2010	15	15	169	75	5582	20	292	75	426	50	80	40	10770	60

All values that were at or below the detection limit were reported at the detection limit

Table 24: Septage Sampling Data

Metals Loading to Bucklin Point from Septage (lb/yr)

Year	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Total Metals	MGY
1996	4.5	77.6	946.0	167.0	33.9	19.6	1414	2663	14.76
1997	3.9	33.2	806.0	113.0	27.4	10.3	1060	2054	14.22
1998	4.5	29.2	830.0	93.0	31.0	5.7	1016	2009	17.53
1999	3.4	26.5	623.0	61.0	20.0	4.1	849	1587	21.50
2000	2.8	21.8	591.0	53.0	26.7	4.1	873	1572	23.34
2001	1.5	20.7	436.0	42.3	22.4	4.2	633	1160	17.39
2002	0.95	8.2	322.6	30.4	22.8	33.1	473	892	17.04
2003	0.89	3.8	196.4	15.9	7.1	4.2	299	527	13.03
2004	0.90	5.0	256.3	15.9	8.9	3.3	321	612	9.10
2005	0.93	7.9	349.9	25.5	11.3	1.9	458	855	8.96
2006	1.35	8.8	416.0	24.2	13.2	3.3	495	961	9.36
2007	1.5	11.5	532.3	28.2	14.8	4.2	605	1197	8.53
2008	2.8	10.5	440.3	19.8	9.5	5.3	508	996	9.30
2009	1.5	12.1	435.4	23.0	11.6	4.2	554	1042	9.08
2010	1.4	12.5	505.1	30.7	15.5	3.3	640	1208	8.02

Table 25: Septage Summary 1996-2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
01/27/10	10:25 AM	1001-EMDASPST-0001	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
01/27/10	9:48 AM	1001-EMDASPST-0006	Pomham Rocks	BAY	0.5	12.85	2.72	8.02	414.00	11.20	*402.80*	52.00	24.20	1460.0	644	*466*	58		
01/27/10	1:25 PM	1001-EMDASPST-0008	Phillipsdale Landing	BAY	0.5	0.32	1.88	7.90	226.00	5.72	*220.28*	<7.00	15.60	927.0	760	*	20		
01/27/10	9:05 AM	1001-EMDASPST-0003	Bullocks Reach Buoy	BAY	0.5	14.94	2.52	7.73	461.00	10.20	*450.80*	55.20	33.90	1440.0	734	*516*	70		
01/27/10	10:05 AM	1001-EMDASPST-0004	Edgewood Yacht Club	BAY	0.6	13.58	3.38	7.84	487.00	11.40	*475.60*	80.90	37.90	1560.0	785	*568*	50		
01/27/10	10:05 AM	1001-EMDASPST-0005	Edgewood Yacht Club	BAY	0.6	13.58	3.38	7.84	467.00	19.40	*447.60*	89.10	37.30	1680.0	800	*556*	46		
01/27/10	8:40 AM	1001-EMDASPST-0002	Conimicut Point	BAY	0.6	11.70	3.09	7.67	484.00	13.10	*470.90*	117.00	34.00	1530.0	779	*601*	46		
01/27/10	9:48 AM	1001-EMDASPST-0030	Pomham Rocks	BAY CHL	0.5	12.85												7.681	3.211
01/27/10	1:25 PM	1001-EMDASPST-0033	Phillipsdale Landing	BAY CHL	0.5	0.32												3.919	4.378
01/27/10	9:05 AM	1001-EMDASPST-0032	Bullocks Reach Buoy	BAY CHL	0.5	14.94												3.69	1.408
01/27/10	10:05 AM	1001-EMDASPST-0029	Edgewood Yacht Club	BAY CHL	0.6	13.58												4.313	1.516
01/27/10	10:05 AM	1001-EMDASPST-0034	Edgewood Yacht Club	BAY CHL	0.6	13.58												3.732	1.901
01/27/10	8:40 AM	1001-EMDASPST-0028	Conimicut Point	BAY CHL	0.6	11.38												4.169	2.051
01/27/10	10:24 AM	1001-EMDASPST-0026	Blackstone River at Slater Dam	RIVER	surface		1.77	8.29	448.00	5.38	*442.62*	128.00	28.20	1920.0	722	*576*	6		
01/27/10	8:43 AM	1001-EMDASPST-0025	Blackstone River at Stateline	RIVER	surface		1.24	8.64	431.00	4.28	*426.72*	89.30	13.40	1610.0	702	*520*	10		
01/27/10	10:05 AM	1001-EMDASPST-0015	Coles River @ Milford Rd, Swansea	RIVER	surface		3.00	6.85	184.00	3.93	*180.07*	17.60	10.10	257.0	410	*202*	2		
01/27/10	9:52 AM	1001-EMDASPST-0016	Lee's River @ Rt. 6, Swansea	RIVER	surface		3.62	7.19	387.00	4.18	*382.82*	20.80	5.84	1260.0	581	*408*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
01/27/10	9:55 AM	1001-EMDASPST-0023	Moshassuck River @ Higginson Ave	RIVER	surface		3.44	8.53	415.00	2.63	*412.37*	13.40	5.71	2470.0	579	*428*	4		
01/27/10	1:45 PM	1001-EMDASPST-0024	Moshassuck River @ Mill St	RIVER	surface		4.12	7.40	532.00	2.32	*529.68*	43.60	<4.00	2800.0	690	*576*	6		
01/27/10	2:20 PM	1001-EMDASPST-0019	Pawtuxet @ Terminal Falls	RIVER	surface		3.27	7.58	509.00	9.79	*499.21*	143.00	17.40	2310.0	887	*652*	6		
01/27/10	11:49 AM	1001-EMDASPST-0012	Runnins @ River Road on RI-MA Border	RIVER	surface		2.34	6.24	494.00	4.96	*489.04*	24.60	6.78	1850.0	733	*519*	6		
01/27/10	8:44 AM	1001-EMDASPST-0017	Taunton River @ Berkley Bridge	RIVER	surface		3.37	7.26	402.00	6.78	*395.22*	52.30	42.80	788.0	712	*454*	10		
01/27/10	12:46 PM	1001-EMDASPST-0010	Ten Mile @ Outlet of Omega Pond	RIVER	surface		3.42	7.21	1620.00	59.60	*1560.40*	54.00	15.00	1930.0	1880	*1674*	18		
01/27/10	12:46 PM	1001-EMDASPST-0011	Ten Mile @ Outlet of Omega Pond	RIVER	surface		3.42	7.21	1630.00	55.00	*1575.00*	53.80	14.40	2630.0	1890	*1684*	22		
01/27/10	10:25 AM	1001-EMDASPST-0014	Warren Reservoir/Kickemuit River	RIVER	surface		4.23	6.78	277.00	3.50	*273.50*	28.00	9.03	808.0	584	*305*	4		
01/27/10	12:45 PM	1001-EMDASPST-0021	Woonasquatucket @ Manton Ave	RIVER	surface		3.69	7.93	472.00	11.20	*460.80*	28.60	4.38	2150.0	622	*501*	2		
01/27/10	12:45 PM	1001-EMDASPST-0020	Woonasquatucket @ Manton Ave	RIVER	surface		3.69	7.93	468.00	11.20	*456.80*	29.30	4.58	2170.0	632	*497*	4		
01/27/10	1:15 PM	1001-EMDASPST-0022	Woonasquatucket @ Valley St	RIVER	surface		3.76	7.72	510.00	11.20	*498.80*	21.90	4.59	2530.0	662	*532*	4		
01/27/10	12:53 PM	1001-EMDASPST-0009	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
01/27/10	2:30 PM	1001-EMDASPST-0018	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
02/10/10	8:36 AM	1002-EMDASPST-0008	Blackstone River at Slater Dam	RIVER	surface		1.52	7.64	796.00	15.50	*780.50*	203.00	44.90	2800.0	1120	*999*	2		
02/10/10	8:08 AM	1002-EMDASPST-0013	Moshassuck River @ Higginson Ave	RIVER	surface		3.17	7.72	621.00	4.33	*616.67*	36.20	4.89	3380.0	791	*657*	2		
02/10/10	9:15 AM	1002-EMDASPST-0014	Moshassuck River @ Mill St	RIVER	surface		2.73	7.35	756.00	5.54	*750.46*	92.10	<4.00	2670.0	986	*848*	4		
02/10/10	9:20 AM	1002-EMDASPST-0009	Pawtuxet @ Terminal Falls	RIVER	surface		2.60	7.45	1030.00	16.10	*1013.90*	374.00	65.60	1580.0	1560	*1404*	12		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
02/10/10	9:40 AM	1002-EMDASPST-0015	Ten Mile @ Outlet of Omega Pond	RIVER	surface		3.64	7.32	2560.00	31.60	*2528.40*	66.40	12.60	2410.0	2840	*2626*	8		
02/10/10	8:15 AM	1002-EMDASPST-0010	Woonasquatucket @ Manton Ave	RIVER	surface		3.03	8.20	597.00	18.30	*578.70*	41.80	<4.00	1380.0	759	*639*	10		
02/10/10	8:15 AM	1002-EMDASPST-0011	Woonasquatucket @ Manton Ave	RIVER	surface		3.03	8.20	596.00	18.20	*577.80*	42.90	<4.00	1690.0	764	*639*	6		
02/10/10	8:40 AM	1002-EMDASPST-0012	Woonasquatucket @ Valley St	RIVER	surface		2.87	7.95	671.00	17.30	*653.70*	21.60	<4.00	1740.0	822	*693*	2		
02/10/10	9:25 AM	1002-EMDASPST-0016	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
02/10/10	8:15 AM	1002-EMDASPST-0018	Nutrient Blank	RIVER			3.17	7.72	<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
02/24/10	2:10 PM	1002-EMDASPST-0026	Phillipsdale Landing	BAY	0.5	6.97	4.35	6.39	822.00	12.30	*809.70*	251.00	165.00	664.0	1300	*1073*	24		
02/24/10	2:15 PM	1002-EMDASPST-0050	Phillipsdale Landing	BAY	1.5	8.19	4.04	6.46	818.00	10.90	*807.10*	191.00	147.00	1900.0	1360	*1009*	26		
02/24/10	9:50 AM	1002-EMDASPST-0028	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		3.16	7.40	709.00	11.40	*697.60*	240.00	103.00	497.0	1090	*949*	20		
02/24/10	10:58 AM	1002-EMDASPST-0029	Blackstone River at Slater Dam	RIVER	surface		3.56	7.59	774.00	12.00	*762.00*	149.00	80.60	1600.0	1080	*923*	6		
02/24/10	8:50 AM	1002-EMDASPST-0027	Blackstone River at Stateline	RIVER	surface		2.62	8.01	741.00	12.60	*728.40*	117.00	6.80	863.0	985	*858*	6		
02/24/10	11:30 PM	1002-EMDASPST-0041	Coles River @ Milford Rd, Swansea	RIVER	surface		2.59	8.63	461.00	2.69	*458.31*	41.30	7.50	2210.0	680	*502*	12		
02/24/10	11:05 AM	1002-EMDASPST-0042	Lee's River @ Rt. 6, Swansea	RIVER	surface		3.24	7.44	316.00	2.38	*313.62*	47.60	8.10	1330.0	535	*364*	22		
02/24/10	10:18 AM	1002-EMDASPST-0033	Moshassuck River @ Higginson Ave	RIVER	surface		3.85	7.51	548.00	3.29	*544.71*	21.80	4.12	2540.0	684	*570*	12		
02/24/10	1:15 PM	1002-EMDASPST-0034	Moshassuck River @ Mill St	RIVER	surface		3.94	7.17	356.00	5.96	*350.04*	144.00	31.50	658.0	740	*500*	80		
02/24/10	1:15 PM	1002-EMDASPST-0035	Moshassuck River @ Mill St	RIVER	surface		3.94	7.17	347.00	5.47	*341.53*	145.00	31.60	1110.0	716	*492*	88		
02/24/10	12:20 PM	1002-EMDASPST-0038	Palmer River @ Rte. 6 Swansea	RIVER	surface		2.43	7.63	504.00	3.41	*500.59*	119.00	29.40	1400.0	888	*623*	24		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
02/24/10	12:20 PM	1002-EMDASPST-0039	Palmer River @ Rte. 6 Swansea	RIVER	surface		2.43	7.63	492.00	4.06	*487.94*	121.00	29.60	1890.0	869	*613*	24		
02/24/10	2:25 PM	1002-EMDASPST-0030	Pawtuxet @ Terminal Falls	RIVER	surface		3.94	7.07	783.00	10.20	*772.80*	325.00	45.60	691.0	1320	*1108*	34		
02/24/10	1:20 PM	1002-EMDASPST-0037	Runnins @ River Road on RI-MA Border	RIVER	surface		2.31	7.69	456.00	7.53	*448.47*	192.00	8.48	1100.0	865	*648*	12		
02/24/10	9:45 AM	1002-EMDASPST-0043	Taunton River @ Berkley Bridge	RIVER	surface		3.11	8.56	720.00	31.00	*689.00*	142.00	26.90	2430.0	1050	*862*	6		
02/24/10	1:50 PM	1002-EMDASPST-0036	Ten Mile @ Outlet of Omega Pond	RIVER	surface		3.70	7.68	2540.00	51.40	*2488.60*	55.70	8.49	2440.0	2780	*2596*	12		
02/24/10	12:00 PM	1002-EMDASPST-0040	Warren Reservoir/Kickemuit River	RIVER	surface		2.43	8.25	459.00	5.81	*453.19*	130.00	9.86	1200.0	827	*589*	18		
02/24/10	11:30 AM	1002-EMDASPST-0031	Woonasquatucket @ Manton Ave	RIVER	surface		3.13	7.37	469.00	19.00	*450.00*	69.40	9.61	950.0	695	*538*	22		
02/24/10	12:50 PM	1002-EMDASPST-0032	Woonasquatucket @ Valley St	RIVER	surface		3.29	7.34	392.00	15.10	*376.90*	99.30	75.80	727.0	754	*491*	80		
02/24/10	10:25 AM	1002-EMDASPST-0020	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
02/24/10	11:40 AM	1002-EMDASPST-0021	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/10/10	9:05 AM	1002-EMDASPST-0022	Conimicut Point	BAY	0.4	21.60	3.84	7.84	214.00	2.44	*211.56*	78.80	12.20	884.0	463	*293*	56		
03/10/10	1:15 PM	1002-EMDASPST-0025	India Point Park	BAY	0.4	5.98	6.01	7.68	660.00	11.60	*648.40*	81.70	50.40	1940.0	874	*742*	16		
03/10/10	9:52 AM	1002-EMDASPST-0044	Bullocks Reach Buoy	BAY	0.4	18.17	4.19	7.78	343.00	4.78	*338.22*	165.00	25.90	1290.0	680	*508*	48		
03/10/10	10:40 AM	1002-EMDASPST-0024	Pomham Rocks	BAY	0.5	19.30	4.52	7.82	420.00	6.61	*413.39*	79.50	32.10	1370.0	697	*500*	34		
03/10/10	9:15 AM	1003-EMDASPST-0001	Phillipsdale Landing	BAY	0.5	3.54	5.64	7.45	652.00	11.70	*640.30*	88.00	64.60	2700.0	890	*740*	14		
03/10/10	1:47 PM	1002-EMDASPST-0023	Edgewood Yacht Club	BAY	0.5	19.26	4.88	7.77	373.00	7.04	*365.96*	201.00	34.40	1450.0	759	*574*	38		
03/10/10	1:55 PM	1002-EMDASPST-0046	Edgewood Yacht Club	BAY	2.0	29.02	3.49	7.87	90.40	<1.5	*	93.90	10.10	483.0	353	*184*	62		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/10/10	9:25 AM	1003-EMDASPST-0002	Phillipsdale Landing	BAY	2.0	4.45	5.61	7.32	577.00	11.60	*565.40*	101.00	37.70	2560.0	811	*678*	18		
03/10/10	10:45 AM	1002-EMDASPST-0047	Pomham Rocks	BAY	5.5	30.27	2.44	7.77	11.60	<1.5	*	<7.00	4.02	120.0	124	*	74		
03/10/10	10:00 AM	1002-EMDASPST-0049	Bullocks Reach Buoy	BAY	7.1	30.61	2.35	7.73	12.10	<1.5	*	<7.00	4.43	122.0	113	*	66		
03/10/10	1:20 PM	1002-EMDASPST-0048	India Point Park	BAY	7.9	29.99	2.38	7.46	26.20	<1.5	*	7.60	7.07	158.0	147	*34*	72		
03/10/10	9:20 AM	1002-EMDASPST-0045	Conimicut Point	BAY	8.0	30.52	2.32	7.99	12.20	<1.5	*	<7.00	4.27	145.0	130	*	76		
03/10/10	8:40 AM	1002-EMDASPST-0019	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/10/10	9:05 AM	1002-EMDASPST-0052	Conimicut Point	BAY CHL	0.4	21.60												4.755	0.562
03/10/10	1:15 PM	1002-EMDASPST-0055	India Point Park	BAY CHL	0.4	5.98												1.473	0.853
03/10/10	9:52 AM	1002-EMDASPST-0056	Bullocks Reach Buoy	BAY CHL	0.4	18.17												1.028	0.411
03/10/10	10:40 AM	1002-EMDASPST-0054	Pomham Rocks	BAY CHL	0.5	19.30												1.743	0.657
03/10/10	9:15 AM	1002-EMDASPST-0057	Phillipsdale Landing	BAY CHL	0.5	3.54												1.497	1.055
03/10/10	1:47 PM	1002-EMDASPST-0053	Edgewood Yacht Club	BAY CHL	0.5	19.26												1.67	0.539
03/10/10	10:25 AM	1003-EMDASPST-0004	Blackstone River at Slater Dam	RIVER	surface		6.06	8.22	600.00	13.70	*586.30*	100.00	27.70	2730.0	860	*700*	6		
03/10/10	10:55 AM	1003-EMDASPST-0007	Moshassuck River @ Higginson Ave	RIVER	surface		5.88	7.96	476.00	2.60	*473.40*	15.00	<4.00	2780.0	616	*491*	8		
03/10/10	1:25 PM	1003-EMDASPST-0008	Moshassuck River @ Mill St	RIVER	surface		7.40	7.58	668.00	3.85	*664.15*	51.20	<4.00	3050.0	858	*719*	8		
03/10/10	1:25 PM	1003-EMDASPST-0009	Moshassuck River @ Mill St	RIVER	surface		7.40	7.58	670.00	3.95	*666.05*	52.60	<4.00	3110.0	851	*723*	10		
03/10/10	2:05 PM	1003-EMDASPST-0005	Pawtuxet @ Terminal Falls	RIVER	surface		6.92	7.40	885.00	9.01	*875.99*	264.00	40.80	2510.0	1400	*1149*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/10/10	8:45 AM	1003-EMDASPST-0010	Ten Mile @ Outlet of Omega Pond	RIVER	surface		7.01	8.39	1670.00	31.40	*1638.60*	57.90	9.89	2180.0	1850	*1728*	2		
03/10/10	1:00 PM	1003-EMDASPST-0006	Woonasquatucket @ Valley St	RIVER	surface		6.76	7.86	563.00	13.50	*549.50*	12.90	<4.00	2380.0	681	*576*	4		
03/10/10	2:15 PM	1003-EMDASPST-0003	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/16/10	10:20 AM	1003-EMDASPST-0022	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		4.52	7.60	326.00	5.48	*320.52*	120.00	24.20	1110.0	612	*446*	4		
03/16/10	11:00 AM	1003-EMDASPST-0023	Blackstone River at Slater Dam	RIVER	surface		4.73	7.45	327.00	5.31	*321.69*	99.90	22.40	1320.0	595	*427*	8		
03/16/10	9:02 AM	1003-EMDASPST-0021	Blackstone River at Stateline	RIVER	surface		4.20	8.01	352.00	7.08	*344.92*	93.20	15.30	1080.0	711	*445*	8		
03/16/10	11:04 AM	1003-EMDASPST-0035	Coles River @ Milford Rd, Swansea	RIVER	surface		5.09	6.80	161.00	2.16	*158.84*	25.90	12.20	251.0	446	*187*	26		
03/16/10	10:40 AM	1003-EMDASPST-0036	Lee's River @ Rt. 6, Swansea	RIVER	surface		5.54	7.37	292.00	2.18	*289.82*	24.90	12.00	548.0	560	*317*	6		
03/16/10	12:45 PM	1003-EMDASPST-0027	Moshassuck River @ Higginson Ave	RIVER	surface		6.70	7.28	378.00	2.37	*375.63*	15.10	5.48	1730.0	586	*393*	2		
03/16/10	2:43 PM	1003-EMDASPST-0028	Moshassuck River @ Mill St	RIVER	surface		7.47	7.20	520.00	3.27	*516.73*	37.60	<4.00	2480.0	704	*558*	2		
03/16/10	12:00 PM	1003-EMDASPST-0033	Palmer River @ Rte. 6 Swansea	RIVER	surface		5.36	6.35	149.00	3.36	*145.64*	19.10	15.60	241.0	528	*168*	12		
03/16/10	3:10 PM	1003-EMDASPST-0024	Pawtuxet @ Terminal Falls	RIVER	surface		*	*	283.00	3.04	*279.96*	151.00	9.41	1430.0	591	*434*	12		
03/16/10	12:23 PM	1003-EMDASPST-0032	Runnins @ River Road on RI-MA Border	RIVER	surface		5.33	6.58	446.00	4.28	*441.72*	18.40	7.37	1540.0	747	*464*	2		
03/16/10	10:00 AM	1003-EMDASPST-0037	Taunton River @ Berkley Bridge	RIVER	surface		5.18	7.95	275.00	6.81	*268.19*	47.60	14.40	388.0	553	*323*	20		
03/16/10	1:42 PM	1003-EMDASPST-0030	Ten Mile @ Outlet of Omega Pond	RIVER	surface		5.83	6.86	801.00	10.90	*790.10*	69.90	10.70	1640.0	1220	*871*	10		
03/16/10	1:42 PM	1003-EMDASPST-0031	Ten Mile @ Outlet of Omega Pond	RIVER	surface		5.83	6.86	774.00	10.90	*763.10*	80.30	10.90	1630.0	1180	*854*	4		
03/16/10	11:31 AM	1003-EMDASPST-0034	Warren Reservoir/Kickemuit River	RIVER	surface		6.40	6.59	163.00	3.47	*159.53*	35.80	20.80	253.0	515	*199*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/16/10	1:19 PM	1003-EMDASPST-0025	Woonasquatucket @ Manton Ave	RIVER	surface		6.82	7.43	329.00	8.80	*320.20*	34.20	<4.0	1730.0	493	*363*	2		
03/16/10	1:45 PM	1003-EMDASPST-0026	Woonasquatucket @ Valley St	RIVER	surface		6.85	7.30	348.00	8.49	*339.51*	35.80	<4.0	1660.0	530	*384*	2		
03/16/10	1:30 PM	1003-EMDASPST-0012	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/16/10	2:05 PM	1003-EMDASPST-0013	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/17/10	10:00 AM	1003-EMDASPST-0052	Bullocks Reach Buoy	BAY	0.5	9.33	5.46		280.00	5.22	*274.78*	129.00	17.30	843.0	587	*409*	20		
03/17/10	1:42 PM	1003-EMDASPST-0047	Phillipsdale Landing	BAY	0.5	2.26	7.73		1040.00	31.90	*1008.10*	211.00	134.00	1200.0	1490	*1251*	4		
03/17/10	9:30 AM	1003-EMDASPST-0053	Conimicut Point	BAY	0.5	9.90	5.22		298.00	5.53	*292.47*	125.00	18.70	1360.0	597	*423*	26		
03/17/10	12:35 PM	1003-EMDASPST-0049	Edgewood Yacht Club	BAY	0.5	7.43	6.28		285.00	6.19	*278.81*	178.00	21.10	1390.0	736	*463*	16		
03/17/10	12:35 PM	1003-EMDASPST-0050	Edgewood Yacht Club	BAY	0.5	7.43	6.28		243.00	6.21	*236.79*	226.00	33.30	1140.0	769	*469*	24		
03/17/10	1:10 PM	1003-EMDASPST-0048	India Point Park	BAY	0.5	3.93	5.87		463.00	10.10	*452.90*	115.00	34.00	1580.0	743	*578*	10		
03/17/10	10:40 PM	1003-EMDASPST-0051	Pomham Rocks	BAY	0.6	6.86	5.28		332.00	7.14	*324.86*	131.00	22.90	1390.0	685	*463*	20		
03/17/10	9:07 AM	1003-EMDASPST-0054	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/17/10	10:00 AM	1003-EMDASPST-0059	Bullocks Reach Buoy	BAY CHL	0.5	9.33												2.562	1.044
03/17/10	1:42 PM	1003-EMDASPST-0060	Phillipsdale Landing	BAY CHL	0.5	2.26												1.757	1.178
03/17/10	9:30 AM	1003-EMDASPST-0055	Conimicut Point	BAY CHL	0.5	9.90												1.918	0.963
03/17/10	12:35 PM	1003-EMDASPST-0056	Edgewood Yacht Club	BAY CHL	0.5	7.43												1.802	0.808
03/17/10	12:35 PM	1003-EMDASPSP-0061	Edgewood Yacht Club	BAY CHL	0.5	7.43												3.034	0.984

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/17/10	1:10 PM	1003-EMDASPST-0058	India Point Park	BAY CHL	0.5	3.93												2.914	1.72
03/17/10	10:40 AM	1003-EMDASPST-0057	Pomham Rocks	BAY CHL	0.6	6.86												2.026	1.089
03/17/10	12:50 PM	1003-EMDASPST-0039	Blackstone River at Slater Dam	RIVER	surface		5.85	7.30	404.00	6.88	*397.12*	102.00	23.60	1380.0	688	*506*	6		
03/17/10	11:15 AM	1003-EMDASPST-0038	Blackstone River at Stateline	RIVER	surface		5.06	7.25	403.00	8.76	*394.24*	81.50	11.60	1300.0	668	*485*	2		
03/17/10	10:25 AM	1003-EMDASPST-0044	Moshassuck River @ Mill St	RIVER	surface		5.84	7.30	542.00	3.69	*538.31*	46.70	<4.00	2550.0	753	*589*	6		
03/17/10	9:00 AM	1003-EMDASPST-0041	Pawtuxet @ Terminal Falls	RIVER	surface		5.26	7.87	330.00	4.84	*325.16*	158.00	9.31	948.0	654	*488*	10		
03/17/10	9:00 AM	1003-EMDASPST-0042	Pawtuxet @ Terminal Falls	RIVER	surface		5.26	7.87	331.00	5.35	*325.65*	156.00	9.25	987.0	657	*487*	10		
03/17/10	2:35 PM	1003-EMDASPST-0040	Taunton River @ Berkley Bridge	RIVER	surface		6.48	6.79	299.00	5.13	*293.87*	48.50	12.20	149.0	586	*348*	18		
03/17/10	1:30 PM	1003-EMDASPST-0043	Ten Mile @ Outlet of Omega Pond	RIVER	surface		7.81	7.16	913.00	14.90	*898.10*	70.90	9.47	1830.0	1290	*984*	8		
03/17/10	9:30 AM	1003-EMDASPST-0045	Woonasquatucket @ Valley St	RIVER	surface		5.61	7.41	372.00	10.80	*361.20*	52.10	<4.00	681.0	593	*424*	2		
03/17/10	2:45 PM	1003-EMDASPST-0046	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/18/10	1:00 PM	1003-EMDASPST-0072	India Point Park	BAY	0.5	5.49	7.83		447.00	9.94	*437.06*	108.00	17.70	2010.0	700	*555*	10		
03/18/10	1:45 PM	1003-EMDASPST-0071	Phillipsdale Landing	BAY	0.6	0.25	8.41		478.00	10.10	*467.90*	108.00	25.40	1710.0	743	*586*	2		
03/18/10	9:30 AM	1003-EMDASPST-0076	Bullocks Reach Buoy	BAY	0.7	10.96	6.24		365.00	6.97	*358.03*	158.00	22.50	1440.0	674	*523*	38		
03/18/10	8:55 AM	1003-EMDASPST-0077	Conimicut Point	BAY	0.8	8.43	6.22		205.00	3.92	*201.08*	151.00	11.90	1450.0	631	*356*	18		
03/18/10	10:30 AM	1003-EMDASPST-0073	Edgewood Yacht Club	BAY	0.8	8.37	6.64		376.00	8.49	*367.51*	174.00	24.90	1600.0	679	*550*	16		
03/18/10	10:30 AM	1003-EMDASPST-0074	Edgewood Yacht Club	BAY	0.8	8.37	6.64		377.00	8.39	*368.61*	176.00	24.70	1700.0	694	*553*	24		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/18/10	10:15 AM	1003-EMDASPST-0075	Pomham Rocks	BAY	0.8	8.18	7.04		392.00	9.35	*382.65*	201.00	27.40	1680.0	786	*593*	22		
03/18/10	8:35 AM	1003-EMDASPST-0078	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/18/10	1:00 PM	1003-EMDASPST-0083	India Point Park	BAY CHL	0.5	5.49												2.167	0.925
03/18/10	9:30 AM	1003-EMDASPST-0084	Bullocks Reach Buoy	BAY CHL	0.7	10.96												1.668	0.749
03/18/10	1:45 PM	1003-EMDASPST-0085	Phillipsdale Landing	BAY CHL	0.7	0.25												1.859	1.07
03/18/10	8:55 AM	1003-EMDASPST-0079	Conimicut Point	BAY CHL	0.8	8.43												1.279	0.837
03/18/10	10:30 AM	1003-EMDASPST-0080	Edgewood Yacht Club	BAY CHL	0.8	8.37												1.006	0.762
03/18/10	10:30 AM	1003-EMDASPST-0081	Edgewood Yacht Club	BAY CHL	0.8	8.37												1.105	0.794
03/18/10	10:15 AM	1003-EMDASPST-0082	Pomham Rocks	BAY CHL	0.8	8.18												1.257	0.707
03/18/10	10:45 AM	1003-EMDASPST-0063	Blackstone River at Slater Dam	RIVER	surface		6.83	7.16	422.00	8.01	*413.99*	86.80	16.60	1760.0	683	*509*	2		
03/18/10	10:00 AM	1003-EMDASPST-0062	Blackstone River at Stateline	RIVER	surface		6.28	7.25	446.00	11.30	*434.70*	61.30	9.19	1820.0	701	*507*	4		
03/18/10	9:30 AM	1003-EMDASPST-0068	Moshassuck River @ Mill St	RIVER	surface		7.17	7.10	589.00	4.06	*584.94*	43.60	<4.00	2720.0	774	*633*	2		
03/18/10	8:15 AM	1003-EMDASPST-0065	Pawtuxet @ Terminal Falls	RIVER	surface		6.36	7.34	415.00	5.91	*409.09*	146.00	13.00	1460.0	750	*561*	8		
03/18/10	8:15 AM	1003-EMDASPST-0066	Pawtuxet @ Terminal Falls	RIVER	surface		6.36	7.34	427.00	5.64	*421.36*	149.00	13.10	1520.0	746	*576*	4		
03/18/10	1:20 PM	1003-EMDASPST-0064	Taunton River @ Berkley Bridge	RIVER	surface		7.13	6.82	350.00	6.42	*343.58*	43.50	11.40	360.0	634	*394*	8		
03/18/10	12:30 PM	1003-EMDASPST-0067	Ten Mile @ Outlet of Omega Pond	RIVER	surface		8.03	7.37	894.00	15.20	*878.80*	64.00	9.94	1700.0	1250	*958*	2		
03/18/10	9:08 AM	1003-EMDASPST-0069	Woonasquatucket @ Valley St	RIVER	surface		6.75	7.18	442.00	21.50	*420.50*	54.80	5.17	1650.0	733	*497*	4		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/18/10	1:28 PM	1003-EMDASPST-0070	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/19/10	1:50 PM	1003-EMDASPST-0098	Edgewood Yacht Club	BAY	0.7	10.35	9.04		167.00	4.26	*162.74*	216.00	20.40	1330.0	731	*383*	90		
03/19/10	1:50 PM	1003-EMDASPST-0099	Edgewood Yacht Club	BAY	0.7	10.35	9.04		374.00	8.92	*365.08*	225.00	22.30	1360.0	754	*599*	96		
03/19/10	10:35 AM	1003-EMDASPST-0100	Pomham Rocks	BAY	0.7	8.95	7.61		414.00	9.12	*404.88*	100.00	23.40	1260.0	689	*514*	68		
03/19/10	1:10 PM	1003-EMDASPST-0102	Phillipsdale Landing	BAY	0.7	0.28	9.41		487.00	11.00	*476.00*	132.00	33.80	1500.0	788	*619*	6		
03/19/10	10:10 AM	1003-EMDASPST-0101	India Point Park	BAY	0.7	9.85	6.85		504.00	9.09	*494.91*	132.00	17.10	1290.0	830	*636*	22		
03/19/10	9:05 AM	1003-EMDASPST-0096	Conimicut Point	BAY	0.7	11.68	7.20		413.00	6.80	*406.20*	193.00	18.20	1260.0	731	*606*	70		
03/19/10	9:30 AM	1003-EMDASPST-0097	Bullocks Reach Buoy	BAY	0.8	9.95	6.91		406.00	6.96	*399.04*	196.00	18.70	1300.0	721	*602*	88		
03/19/10	8:30 AM	1003-EMDASPST-0095	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/19/10	1:05 PM	1003-EMDASPST-0104	Edgewood Yacht Club	BAY CHL	0.7	10.35												0.966	0.496
03/19/10	1:05 PM	1003-EMDASPST-0105	Edgewood Yacht Club	BAY CHL	0.7	10.35												1.153	0.57
03/19/10	10:35 AM	1003-EMDASPST-0106	Pomham Rocks	BAY CHL	0.7	8.95												0.743	0.612
03/19/10	1:10 PM	1003-EMDASPST-0109	Phillipsdale Landing	BAY CHL	0.7	0.28												1.361	0.637
03/19/10	10:10 AM	1003-EMDASPST-0107	India Point Park	BAY CHL	0.7	9.85												1.127	0.745
03/19/10	9:05 AM	1003-EMDASPST-0103	Conimicut Point	BAY CHL	0.7	11.68												0.672	0.556
03/19/10	9:30 AM	1003-EMDASPST-0108	Bullocks Reach Buoy	BAY CHL	0.8	9.95												0.512	0.458
03/19/10	11:00 AM	1003-EMDASPST-0092	Blackstone River at Slater Dam	RIVER	surface		7.57	7.20	459.00	9.39	*449.61*	117.00	10.20	1510.0	741	*576*	8		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/19/10	10:00 AM	1003-EMDASPST-0091	Blackstone River at Stateline	RIVER	surface		6.82	7.24	459.00	11.30	*447.70*	64.30	7.99	1420.0	696	*523*	6		
03/19/10	9:25 AM	1003-EMDASPST-0090	Moshassuck River @ Mill St	RIVER	surface		7.80	7.13	618.00	3.69	*614.31*	52.60	<4.00	2340.0	1100	*671*	6		
03/19/10	8:25 AM	1003-EMDASPST-0087	Pawtuxet @ Terminal Falls	RIVER	surface		6.93	7.45	480.00	5.01	*474.99*	246.00	18.50	1390.0	868	*726*	6		
03/19/10	8:25 AM	1003-EMDASPST-0088	Pawtuxet @ Terminal Falls	RIVER	surface		6.93	7.45	476.00	5.79	*470.21*	246.00	18.20	1390.0	867	*722*	6		
03/19/10	2:05 PM	1003-EMDASPST-0094	Taunton River @ Berkley Bridge	RIVER	surface		7.84	6.43	338.00	8.33	*329.67*	47.80	18.90	249.0	612	*386*	10		
03/19/10	1:00 PM	1003-EMDASPST-0093	Ten Mile @ Outlet of Omega Pond	RIVER	surface		8.90	7.08	1020.00	20.80	*999.20*	73.00	7.11	1480.0	1310	*1093*	10		
03/19/10	8:50 AM	1003-EMDASPST-0089	Woonasquatucket @ Valley St	RIVER	surface		7.13	7.26	471.00	34.40	*436.60*	79.90	4.65	1230.0	655	*551*	8		
03/19/10	3:10 PM	1003-EMDASPST-0086	Nutrient Blank	RIVER					25.90	<1.5	*	<7.00	<4.00	<20	<100	*			
03/22/10	9:00 AM	1003-EMDASPST-0120	Conimicut Point	BAY	0.6	8.54	9.45		436.00	11.70	*424.30*	226.00	19.90	1340.0	790	*662*	72		
03/22/10	9:24 AM	1003-EMDASPST-0121	Bullocks Reach Buoy	BAY	0.6	7.60	9.94		472.00	11.60	*460.40*	240.00	17.50	1350.0	843	*712*	96		
03/22/10	9:55 AM	1003-EMDASPST-0124	Pomham Rocks	BAY	0.6	8.89	9.40		453.00	13.60	*439.40*	229.00	20.80	1490.0	903	*682*	74		
03/22/10	1:40 PM	1003-EMDASPST-0126	Phillipsdale Landing	BAY	0.6	1.20	10.50		566.00	14.50	*551.50*	92.10	41.60	1980.0	861	*658*	14		
03/22/10	12:55 PM	1003-EMDASPST-0125	India Point Park	BAY	0.7	4.55	9.67		485.00	11.30	*473.70*	107.00	18.30	1720.0	726	*592*	44		
03/22/10	2:45 PM	1003-EMDASPST-0122	Edgewood Yacht Club	BAY	0.7	10.40	9.29		424.00	12.80	*411.20*	208.00	20.70	1330.0	773	*632*	82		
03/22/10	2:45 PM	1003-EMDASPST-0123	Edgewood Yacht Club	BAY	0.7	10.40	9.29		425.00	12.50	*412.50*	223.00	20.80	1330.0	772	*648*	82		
03/22/10	10:21 AM	1003-EMDASPST-0119	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/22/10	9:00 AM	1003-EMDASPST-0127	Conimicut Point	BAY CHL	0.6	8.54												0.991	0.46

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/22/10	9:24 AM	1003-EMDASPST-0132	Bullocks Reach Buoy	BAY CHL	0.6	7.60												0.885	0.434
03/22/10	9:55 AM	1003-EMDASPST-0130	Pomham Rocks	BAY CHL	0.6	8.89												1.05	0.564
03/22/10	1:40 PM	1003-EMDASPST-0133	Phillipsdale Landing	BAY CHL	0.6	1.20												1.088	0.52
03/22/10	12:55 PM	1003-EMDASPST-0131	India Point Park	BAY CHL	0.7	4.55												2.542	1.006
03/22/10	2:45 PM	1003-EMDASPST-0128	Edgewood Yacht Club	BAY CHL	0.7	10.40												0.667	0.351
03/22/10	2:45 PM	1003-EMDASPST-0129	Edgewood Yacht Club	BAY CHL	0.7	10.40												0.977	0.502
03/22/10	11:25 AM	1003-EMDASPST-0116	Blackstone River at Slater Dam	RIVER	surface		10.40	7.43	495.00	14.30	*480.70*	93.80	9.27	1870.0	755	*589*	6		
03/22/10	10:25 AM	1003-EMDASPST-0115	Blackstone River at Stateline	RIVER	surface		9.87	7.54	306.00	9.20	*296.80*	53.60	5.15	946.0	449	*360*	6		
03/22/10	9:25 AM	1003-EMDASPST-0114	Moshassuck River @ Mill St	RIVER	surface		10.54	7.37	605.00	4.91	*600.09*	60.10	<4.00	2880.0	860	*665*	4		
03/22/10	8:30 AM	1003-EMDASPST-0111	Pawtuxet @ Terminal Falls	RIVER	surface		10.02	7.72	642.00	7.47	*634.53*	203.00	19.70	1730.0	981	*845*	2		
03/22/10	8:30 AM	1003-EMDASPST-0112	Pawtuxet @ Terminal Falls	RIVER	surface		10.02	7.72	645.00	7.40	*637.60*	201.00	19.40	1800.0	991	*846*	2		
03/22/10	2:10 PM	1003-EMDASPST-0118	Taunton River @ Berkley Bridge	RIVER	surface		10.87	7.10	314.00	10.70	*303.30*	57.80	9.04	367.0	581	*372*	2		
03/22/10	1:10 PM	1003-EMDASPST-0117	Ten Mile @ Outlet of Omega Pond	RIVER	surface		12.09	7.37	1310.00	15.10	*1294.90*	40.90	8.81	1200.0	1550	*1351*	8		
03/22/10	9:00 AM	1003-EMDASPST-0113	Woonasquatucket @ Valley St	RIVER	surface		10.07	7.50	486.00	38.60	*447.40*	76.10	7.00	1680.0	696	*562*	<2.0		
03/22/10	2:15 PM	1003-EMDASPST-0110	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/23/10	1:06 PM	1003-EMDASPST-0151	Phillipsdale Landing	BAY	surface				641.00	5.97	*635.03*	234.00	58.40	1470.0	1290	*875*	28		
03/23/10	11:15 AM	1003-EMDASPST-0152	Conimicut Point	BAY CHL	surface CHL													0.25	0.664

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/23/10	11:45 AM	1003-EMDASPST-0153	Edgewood Yacht Club	BAY CHL	surface CHL													1.423	2.53
03/23/10	11:45 AM	1003-EMDASPST-0154	Edgewood Yacht Club	BAY CHL	surface CHL													1.404	2.287
03/23/10	1:55 PM	1003-EMDASPST-0156	India Point Park	BAY CHL	surface CHL													6.399	13.017
03/23/10	1:06 PM	1003-EMDASPST-0158	Phillipsdale Landing	BAY CHL	surface CHL													3.899	7.729
03/23/10	1:30 PM	1003-EMDASPST-0155	Pomham Rocks	BAY CHL	surface CHL													2.29	2.635
03/23/10	10:55 AM	1003-EMDASPST-0157	Bullocks Reach Buoy	BAY CHL	surface CHL													1.114	1.812
03/31/10	11:45 AM	1003-EMDASPST-0147	Edgewood Yacht Club	BAY	0.8	3.24	8.38		306.00	6.61	*299.39*	104.00	16.20	943.0	627	*410*	16		
03/31/10	11:45 AM	1003-EMDASPST-0148	Edgewood Yacht Club	BAY	0.8	3.24	8.38		320.00	7.71	*312.29*	97.00	18.80	862.0	630	*417*	18		
03/31/10	1:30 PM	1003-EMDASPST-0146	Pomham Rocks	BAY	0.9	5.33	8.14		175.00	5.38	*169.62*	116.00	14.50	768.0	541	*291*	50		
03/31/10	1:55 PM	1003-EMDASPST-0150	India Point Park	BAY	0.9	1.40	8.46		289.00	5.79	*283.21*	90.00	20.10	571.0	582	*379*	58		
03/31/10	10:55 AM	1003-EMDASPST-0149	Pomham Rocks	BAY	0.9	7.05	7.89		254.00	4.63	*249.37*	88.60	14.00	726.0	494	*343*	24		
03/31/10	11:15 AM	1003-EMDASPST-0145	Conimicut Point	BAY	0.9	4.15	8.23		282.00	5.87	*276.13*	84.90	15.90	816.0	542	*367*	24		
03/31/10	10:30 AM	1003-EMDASPST-0144	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
03/31/10	1:30 PM	1003-EMDASPST-0141	Blackstone River at Slater Dam	RIVER	surface		8.30	8.71	257.00	3.90	*253.10*	38.60	11.90	634.0	478	*296*	32		
03/31/10	12:20 PM	1003-EMDASPST-0140	Blackstone River at Stateline	RIVER	surface		8.00	8.35	236.00	4.49	*231.51*	28.50	12.40	409.0	455	*265*	18		
03/31/10	1:52 PM	1003-EMDASPST-0139	Moshassuck River @ Mill St	RIVER	surface		8.51	6.96	<6.0	<1.5	*	<7.00	<4.00	<20	<100	*<13*	44		
03/31/10	2:35 PM	1003-EMDASPST-0136	Pawtuxet @ Terminal Falls	RIVER	surface		7.99	7.51	199.00	3.39	*195.61*	80.60	9.85	870.0	464	*280*	78		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/31/10	2:35 PM	1003-EMDASPST-0137	Pawtuxet @ Terminal Falls	RIVER	surface		7.99	7.51	197.00	3.41	*193.59*	90.90	9.67	433.0	463	*288*	110		
03/31/10			Pawtuxet @ Terminal Falls	RIVER	surface				198.00	3.40	*194.60*	85.75	9.76	651.5	464	*284*			
03/31/10	11:27 AM	1003-EMDASPST-0143	Taunton River @ Berkley Bridge	RIVER	surface		8.67	6.38	204.00	6.35	*197.65*	24.90	11.90	89.7	479	*229*	16		
03/31/10	12:35 PM	1003-EMDASPST-0142	Ten Mile @ Outlet of Omega Pond	RIVER	surface		8.64	6.84	432.00	19.20	*412.80*	108.00	16.80	377.0	744	*540*	12		
03/31/10	2:28 PM	1003-EMDASPST-0138	Woonasquatucket River @ Dean Street	RIVER	surface		8.45	6.90	367.00	5.24	*361.76*	15.90	16.00	1230.0	599	*383*	44		
03/31/10	2:55 PM	1003-EMDASPST-0135	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/02/10	9:55 AM	1004-EMDASPST-0016	Edgewood Yacht Club	BAY	0.5				320.00	3.57	*316.43*	56.20	16.20	1120.0	629	*376*	48		
04/02/10	10:37 AM	1004-EMDASPST-0019	India Point Park	BAY	0.5				451.00	3.86	*447.14*	88.90	19.30	1380.0	762	*540*	12		
04/02/10	1:28 PM	1004-EMDASPST-0020	Phillipsdale Landing	BAY	0.5				456.00	3.04	*452.96*	133.00	27.70	1490.0	807	*589*	4		
04/02/10	9:40 AM	1004-EMDASPST-0018	Pomham Rocks	BAY	0.5				359.00	5.64	*353.36*	99.90	19.00	1110.0	661	*459*	46		
04/02/10	9:15 AM	1004-EMDASPST-0015	Bullocks Reach Buoy	BAY	0.5				254.00	2.20	*251.80*	120.00	11.20	961.0	592	*374*	62		
04/02/10	1:25 PM	1004-EMDASPST-0011	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.0	<20	<100	*			
04/02/10	8:46 AM	1004-EMDASPST-0014	Conimicut Point	BAY	0.5				306.00	2.22	*303.78*	66.50	14.70	998.0	632	*373*	58		
04/02/10	9:55 AM	1004-EMDASPST-0017	Edgewood Yacht Club	BAY	0.5				306.00	3.60	*302.40*	104.00	15.60	1290.0	607	*410*	52		
04/02/10	8:46 AM	1004-EMDASPST-0027	Conimicut Point	BAY CHL	0.5													0.614	0.859
04/02/10	9:55 AM	1004-EMDASPST-0029	Edgewood Yacht Club	BAY CHL	0.5													0.462	0.723
04/02/10	9:55 AM	1004-EMDASPST-0028	Edgewood Yacht Club	BAY CHL	0.5													0.473	0.769

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/02/10	10:37 AM	1004-EMDASPST-0031	India Point Park	BAY CHL	0.5													1.341	1.125
04/02/10	1:28 PM	1004-EMDASPST-0033	Phillipsdale Landing	BAY CHL	0.5													1.674	0.995
04/02/10	9:40 AM	1004-EMDASPST-0030	Pomham Rocks	BAY CHL	0.5													1.435	1.034
04/02/10	9:15 AM	1004-EMDASPST-0032	Bullocks Reach Buoy	BAY CHL	0.5													0.563	0.788
04/02/10	9:25 AM	1004-EMDASPST-0007	Blackstone River at Slater Dam	RIVER	surface				394.00	1.77	*392.23*	28.10	10.60	1560.0	666		16		
04/02/10	8:35 AM	1004-EMDASPST-0006	Blackstone River at Stateline	RIVER	surface				372.00	4.79	*367.21*	31.50	9.76	1400.0	606	*404*	4		
04/02/10	2:35 PM	1004-EMDASPST-0005	Moshassuck River @ Mill St	RIVER	surface				569.00	<1.5	*	52.40	5.94	2440.0	889	*621*	24		
04/02/10	10:30 AM	1004-EMDASPST-0002	Pawtuxet @ Terminal Falls	RIVER	surface				316.00	<1.5	*	80.20	11.00	1010.0	611	*396*	20		
04/02/10	10:30 AM	1004-EMDASPST-0003	Pawtuxet @ Terminal Falls	RIVER	surface				315.00	2.86	*312.14*	78.30	11.10	990.0	610	*393*	16		
04/02/10			Pawtuxet @ Terminal Falls	RIVER	surface				315.50	2.86	*312.64*	79.25	11.05	1000.0	611	*395*			
04/02/10	1:15 PM	1004-EMDASPST-0009	Taunton River @ Berkley Bridge	RIVER	surface				249.00	2.40	*246.60*	14.50	9.52	263.0	538	*264*	20		
04/02/10	9:55 AM	1004-EMDASPST-0008	Ten Mile @ Outlet of Omega Pond	RIVER	surface				633.00	11.00	*622.00*	95.70	18.30	1410.0	990	*729*	4		
04/02/10	2:20 PM	1004-EMDASPST-0004	Woonasquatucket @ Valley St	RIVER	surface				408.00	<1.5	*	<7.0	5.93	1290.0	611	*415*	20		
04/02/10	2:45 PM	1004-EMDASPST-0001	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/06/10	9:05 AM	1004-EMDASPST-0011	Conimicut Point	BAY	surface				379.00	6.81	*372.19*	239.00	19.20	986.0	858	*618*	30		
04/06/10	10:15 AM	1004-EMDASPST-0013	Edgewood Yacht Club	BAY	surface				471.00	8.27	*462.73*	147.00	17.80	1580.0	854	*618*	32		
04/06/10	10:15 AM	1004-EMDASPST-0014	Edgewood Yacht Club	BAY	surface				369.00	6.23	*362.77*	149.00	15.40	915.0	669	*518*	24		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/06/10	1:10 PM	1004-EMDASPST-0016	India Point Park	BAY	surface				512.00	12.40	*499.60*	121.00	20.30	1390.0	815	*633*	<2.0		
04/06/10	1:45 PM	1004-EMDASPST-0017	Phillipsdale Landing	BAY	surface				451.00	7.26	*443.74*	139.00	12.10	2080.0	803	*590*	14		
04/06/10	9:55 AM	1004-EMDASPST-0015	Pomham Rocks	BAY	surface				460.00	8.48	*451.52*	178.00	19.20	1130.0	890	*638*	42		
04/06/10	9:28 AM	1004-EMDASPST-0012	Bullocks Reach Buoy	BAY	surface				428.00	8.00	*420.00*	234.00	19.90	1360.0	880	*662*	36		
04/06/10	8:45 AM	1004-EMDASPST-0010	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/06/10	1:10 PM	1004-EMDASPST-0040	India Point Park	BAY CHL	surface													3.053	1.356
04/06/10	9:05 AM	1004-EMDASPST-0036	Conimicut Point	BAY CHL	surface CHL													1.227	0.847
04/06/10	10:15 AM	1004-EMDASPST-0037	Edgewood Yacht Club	BAY CHL	surface CHL													1.343	0.809
04/06/10	10:15 AM	1004-EMDASPST-0038	Edgewood Yacht Club	BAY CHL	surface CHL													1.253	0.725
04/06/10	1:45 PM	1004-EMDASPST-0042	Phillipsdale Landing	BAY CHL	surface CHL													3.402	1.193
04/06/10	9:55 AM	1004-EMDASPST-0039	Pomham Rocks	BAY CHL	surface CHL													1.461	1.104
04/06/10	9:28 AM	1004-EMDASPST-0041	Bullocks Reach Buoy	BAY CHL	surface CHL													0.93	0.742
04/06/10	9:10 AM	1003-EMDASPST-0176	Blackstone River at Slater Dam	RIVER	surface		13.30	7.51	430.00	5.51	*424.49*	137.00	8.66	1940.0	722	*567*	22		
04/06/10	8:30 AM	1003-EMDASPST-0175	Blackstone River at Stateline	RIVER	surface		12.46	7.66	399.00	4.34	*394.66*	54.70	9.50	1720.0	667	*454*	28		
04/06/10	2:30 PM	1003-EMDASPST-0174	Moshassuck River @ Mill St	RIVER	surface		13.49	7.08	597.00	2.52	*594.48*	70.00	4.41	2720.0	868	*667*	18		
04/06/10	10:15 AM	1003-EMDASPST-0171	Pawtuxet @ Terminal Falls	RIVER	surface		12.01	7.00	437.00	6.16	*430.84*	375.00	16.50	1510.0	1010	*812*	40		
04/06/10	10:15 AM	1003-EMDASPST-0172	Pawtuxet @ Terminal Falls	RIVER	surface		12.01	7.00	432.00	6.34	*425.66*	370.00	17.10	978.0	994	*802*	36		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/06/10			Pawtuxet @ Terminal Falls	RIVER	surface				434.50	6.25	*428.25*	372.50	16.80	1244.0	1002	*807*			
04/06/10	1:00 PM	1003-EMDASPST-0178	Taunton River @ Berkley Bridge	RIVER	surface		13.79	6.70	244.00	6.51	*237.49*	50.50	10.30	337.0	571	*295*	26		
04/06/10	9:40 AM	1003-EMDASPST-0177	Ten Mile @ Outlet of Omega Pond	RIVER	surface		14.04	7.13	949.00	11.40	*937.60*	22.00	21.30	1750.0	1300	*971*	16		
04/06/10	1:55 PM	1003-EMDASPST-0173	Woonasquatucket @ Valley St	RIVER	surface		12.86	7.04	483.00	8.97	*474.03*	12.40	6.46	1550.0	763	*495*	6		
04/06/10		1003-EMDASPST-0170	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/08/10	1:05 PM	1004-EMDASPST-0047	India Point Park	BAY CHL	0.5	3.46												3.467	1.322
04/08/10	1:05 PM	1003-EMDASPST-0168	India Point Park	BAY	0.5	3.46	14.80		552.00	13.50	*538.50*	165.00	23.20	1970.0	900	*717*	22		
04/08/10	1:40 PM	1003-EMDASPST-0169	Phillipsdale Landing	BAY	0.5	0.39	16.75		804.00	21.60	*782.40*	177.00	54.00	2390.0	1210	*981*	14		
04/08/10	10:22 AM	1003-EMDASPST-0165	Edgewood Yacht Club	BAY	0.5	4.07	14.96		528.00	15.60	*512.40*	208.00	21.50	1860.0	924	*736*	18		
04/08/10	10:22 AM	1003-EMDASPST-0166	Edgewood Yacht Club	BAY	0.5	4.07	14.96		514.00	13.30	*500.70*	206.00	21.40	1870.0	896	*720*	18		
04/08/10	10:41 AM	1003-EMDASPST-0167	Pomham Rocks	BAY	0.5	4.03	14.97		474.00	11.80	*462.20*	185.00	21.20	1750.0	844	*659*	16		
04/08/10	9:35 AM	1003-EMDASPST-0164	Bullocks Reach Buoy	BAY	0.5	3.24	15.13		483.00	10.40	*472.60*	358.00	23.40	1660.0	1050	*841*	10		
04/08/10	9:05 AM	1003-EMDASPST-0163	Conimicut Point	BAY	0.6	4.45	15.20		458.00	10.80	*447.20*	316.00	22.20	1650.0	1070	*774*	20		
04/08/10	8:45 AM	1003-EMDASPST-0162	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/08/10	1:40 PM	1004-EMDASPST-0049	Phillipsdale Landing	BAY CHL	0.5	0.39												4.479	1.251
04/08/10	10:22 AM	1004-EMDASPST-0044	Edgewood Yacht Club	BAY CHL	0.5	4.07												2.305	1.152
04/08/10	10:22 AM	1004-EMDASPST-0045	Edgewood Yacht Club	BAY CHL	0.5	4.07												2.821	1.127

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/08/10	10:41 AM	1004-EMDASPST-0046	Pomham Rocks	BAY CHL	0.5	4.03												0.593	1.686
04/08/10	9:35 AM	1004-EMDASPST-0048	Bullocks Reach Buoy	BAY CHL	0.5	3.24												1.521	0.62
04/08/10	9:05 AM	1004-EMDASPST-0043	Conimicut Point	BAY CHL	0.6	4.45												1.423	0.833
04/08/10	9:14 AM	1004-EMDASPST-0024	Blackstone River at Slater Dam	RIVER	surface		15.05	8.14	479.00	13.30	*465.70*	121.00	9.13	1530.0	828	*600*	12		
04/08/10	8:30 AM	1004-EMDASPST-0023	Blackstone River at Stateline	RIVER	surface		14.56	8.50	394.00	4.76	*389.24*	178.00	8.92	1890.0	624	*572*	18		
04/08/10	2:35 PM	1004-EMDASPST-0022	Moshassuck River @ Mill St	RIVER	surface		16.80	7.15	592.00	1.99	*590.01*	66.50	<4.00	2980.0	822	*659*	14		
04/08/10	10:30 AM	1004-EMDASPST-0019	Pawtuxet @ Terminal Falls	RIVER	surface		14.82	7.65	492.00	8.60	*483.40*	432.00	19.10	1900.0	1160	*924*	18		
04/08/10	10:20 AM	1004-EMDASPST-0020	Pawtuxet @ Terminal Falls	RIVER	surface		14.82	7.65	485.00	8.72	*476.28*	432.00	19.80	1950.0	1160	*917*	14		
04/08/10			Pawtuxet @ Terminal Falls	RIVER	surface				488.50	8.66	*479.84*	432.00	19.45	1925.0	1160	*921*			
04/08/10	1:10 PM	1004-EMDASPST-0026	Taunton River @ Berkley Bridge	RIVER	surface		16.42	7.04	279.00	8.60	*270.40*	59.30	8.60	724.0	615	*338*	8		
04/08/10	9:50 AM	1004-EMDASPST-0025	Ten Mile @ Outlet of Omega Pond	RIVER	surface		16.13	7.82	1060.00	9.91	*1050.09*	139.00	21.30	1580.0	1390	*1199*	24		
04/08/10	2:10 PM	1004-EMDASPST-0021	Woonasquatucket @ Valley St	RIVER	surface		16.53	7.32	551.00	19.50	*531.50*	27.90	5.50	1960.0	745	*579*	16		
04/08/10	10:30 AM	1004-EMDASPST-0018	Nutrient Blank	RIVER					11.40	<1.5	*	<7.00	<4.00	<20	<100	*			
04/12/10	10:05 AM	1004-EMDASPST-0069	India Point Park	BAY	0.5	4.82	12.27		606.00	13.60	*592.40*	120.00	17.50	1230.0	929	*726*	38		
04/12/10	1:15 PM	1004-EMDASPST-0070	Phillipsdale Landing	BAY	0.6	1.76	13.57		619.00	18.40	*600.60*	144.00	27.30	1650.0	984	*763*	10		
04/12/10	9:05 AM	1004-EMDASPST-0064	Conimicut Point	BAY	0.7	11.79	11.20		358.00	12.10	*345.90*	226.00	10.30	1250.0	1050	*584*	80		
04/12/10	10:30 AM	1004-EMDASPST-0068	Pomham Rocks	BAY	0.7	11.16	11.17		394.00	12.60	*381.40*	228.00	18.60	1510.0	940	*622*	88		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/12/10	9:35 AM	1004-EMDASPST-0065	Bullocks Reach Buoy	BAY	0.7	11.84	11.15		340.00	10.10	*329.90*	298.00	15.60	1430.0	760	*638*	60		
04/12/10	2:00 PM	1004-EMDASPST-0066	Edgewood Yacht Club	BAY	0.8	12.93	11.88		293.00	10.60	*282.40*	269.00	15.10	993.0	707	*562*	94		
04/12/10	2:00 PM	1004-EMDASPST-0067	Edgewood Yacht Club	BAY	0.8	12.93	11.88		343.00	12.30	*330.70*	270.00	15.90	1410.0	808	*613*	98		
04/12/10	8:50 AM	1004-EMDASPST-0063	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/12/10	8:05 AM	1004-EMDASPST-0080	Conimicut Point	BAY CHL	surface CHL													4.605	1.911
04/12/10	2:00 PM	1004-EMDASPST-0081	Edgewood Yacht Club	BAY CHL	surface CHL													3.689	1.433
04/12/10	2:00 PM	1004-EMDASPST-0082	Edgewood Yacht Club	BAY CHL	surface CHL													3.37	1.201
04/12/10	10:05 AM	1004-EMDASPST-0084	India Point Park	BAY CHL	surface CHL													3.467	1.692
04/12/10	1:15 PM	1004-EMDASPST-0086	Phillipsdale Landing	BAY CHL	surface CHL													1.969	1.193
04/12/10	10:30 AM	1004-EMDASPST-0083	Pomham Rocks	BAY CHL	surface CHL													2.504	1.192
04/12/10	9:35 AM	1004-EMDASPST-0085	Bullocks Reach Buoy	BAY CHL	surface CHL													0.938	0.795
04/12/10	9:20 AM	1004-EMDASPST-0077	Blackstone River at Slater Dam	RIVER	surface		12.63	8.17	442.00	7.49	*434.51*	97.20	7.21	1720.0	723	*539*	<2.0		
04/12/10	10:31 AM	1004-EMDASPST-0076	Blackstone River at Stateline	RIVER	surface		12.17	7.74	359.00	3.21	*355.79*	39.20	8.12	1740.0	570	*398*	6		
04/12/10	2:34 PM	1004-EMDASPST-0075	Moshassuck River @ Mill St	RIVER	surface		13.95	7.42	536.00	2.31	*533.69*	66.90	<4.00	2620.0	784	*603*	<2.0		
04/12/10	4:31 PM	1004-EMDASPST-0072	Pawtuxet @ Terminal Falls	RIVER	surface		13.79	7.12	599.00	9.90	*589.10*	332.00	29.10	1490.0	1130	*931*	4		
04/12/10	4:31 PM	1004-EMDASPST-0073	Pawtuxet @ Terminal Falls	RIVER	surface		13.79	7.12	592.00	9.73	*582.27*	330.00	29.40	1930.0	1130	*922*	4		
04/12/10			Pawtuxet @ Terminal Falls	RIVER	surface				595.50	9.82	*585.69*	331.00	29.25	1710.0	1130	*927*			

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/12/10	1:23 PM	1004-EMDASPST-0079	Taunton River @ Berkley Bridge	RIVER	surface		13.58	7.68	300.00	11.10	*288.90*	70.90	7.40	832.0	680	*371*	2		
04/12/10	8:53 AM	1004-EMDASPST-0078	Ten Mile @ Outlet of Omega Pond	RIVER	surface		13.35	8.00	1100.00	6.81	*1093.19*	8.84	13.90	1410.0	1350	*1109*	8		
04/12/10	2:56 PM	1004-EMDASPST-0074	Woonasquatucket @ Valley St	RIVER	surface		14.20	7.58	510.00	<1.5	*	12.10	5.64	1970.0	759	*522*	6		
04/12/10	4:50 AM	1004-EMDASPST-0071	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/19/10	10:50 AM	1004-EMDASPST-0110	Phillipsdale Landing	BAY	0.5	5.50	6.90	7.10	823.00	20.70	*802.30*	160.00	50.00	1910.0	1120	*983*	30		
04/19/10	10:28 AM	1004-EMDASPST-0101	Edgewood Yacht Club	BAY	0.5	20.26	9.16		239.00	10.30	*228.70*	267.00	21.10	760.0	752	*506*	96		
04/19/10	10:28 AM	1004-EMDASPST-0114	Edgewood Yacht Club	BAY CHL	0.5	20.26												1.43	1.069
04/19/10	8:36 AM	1004-EMDASPST-0098	Conimicut Point	BAY	0.5	17.83	9.22		277.00	11.80	*265.20*	161.00	7.78	722.0	705	*438*	96		
04/19/10	8:36 AM	1004-EMDASPST-0099	Conimicut Point	BAY	0.5	17.83	9.22		288.00	11.00	*277.00*	161.00	7.64	744.0	622	*449*	146		
04/19/10	10:00 AM	1004-EMDASPST-0104	Pomham Rocks	BAY	0.5	20.13	9.19		260.00	9.44	*250.56*	200.00	18.50	815.0	644	*460*	64		
04/19/10	9:12 AM	1004-EMDASPST-0108	Bullocks Reach Buoy	BAY	0.5	19.39	9.20		240.00	9.60	*230.40*	168.00	11.20	674.0	658	*408*	120		
04/19/10	1:36 PM	1004-EMDASPST-0106	India Point Park	BAY	0.6	15.51	10.78		604.00	13.90	*590.10*	150.00	24.80	1240.0	941	*754*	126		
04/19/10	10:20 AM	1004-EMDASPST-0111	Phillipsdale Landing	BAY	1.3	1.20	5.42	7.12	868.00	26.10	*841.90*	161.00	49.40	1630.0	1180	*1029*	66		
04/19/10	10:34 AM	1004-EMDASPST-0102	Edgewood Yacht Club	BAY	4.6	28.42	7.46		49.40	2.65	*46.75*	47.70	9.30	275.0	275	*97*	92		
04/19/10	10:34 AM	1004-EMDASPST-0103	Edgewood Yacht Club	BAY	4.6	28.42	7.46		48.40	3.09	*45.31*	48.00	9.06	260.0	216	*96*	82		
04/19/10	9:18 AM	1004-EMDASPST-0109	Bullocks Reach Buoy	BAY	7.1	29.88	6.83		26.30	1.57	*24.73*	20.90	5.92	222.0	202	*47*	230		
04/19/10	10:08 AM	1004-EMDASPST-0105	Pomham Rocks	BAY	7.6	28.54	7.01		33.50	1.78	*31.72*	54.40	10.00	252.0	263	*88*	48		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/19/10	1:50 PM	1004-EMDASPST-0107	India Point Park	BAY	9.0	29.60	6.51		36.80	1.93	*34.87*	86.20	18.30	317.0	293	*123*	18		
04/19/10	8:50 AM	1004-EMDASPST-0100	Conimicut Point	BAY	9.2	28.42	6.88		22.10	<1.5	*	10.90	6.28	196.0	211	*33*	164		
04/19/10	1:58 PM	1004-EMDASPST-0097	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
04/19/10	8:36 AM	1004-EMDASPST-0112	Conimicut Point	BAY CHL	0.5	17.83												6.252	1.214
04/19/10	8:36 AM	1004-EMDASPST-0119	Conimicut Point	BAY CHL	0.5	17.83												7.026	1.411
04/19/10	10:00 AM	1004-EMDASPST-0115	Pomham Rocks	BAY CHL	0.5	20.13												0.896	1.239
04/19/10	9:12 AM	1004-EMDASPST-0117	Bullocks Reach Buoy	BAY CHL	0.5	19.39												3.644	1.458
04/19/10	1:36 PM	1004-EMDASPST-0116	India Point Park	BAY CHL	0.6	15.51												1.63	1.368
04/19/10	9:20 AM	1004-EMDASPST-0094	Blackstone River at Slater Dam	RIVER	surface		10.78	8.10	548.00	16.10	*531.90*	178.00	19.00	1780.0	1030	*726*	14		
04/19/10	8:35 AM	1004-EMDASPST-0093	Blackstone River at Stateline	RIVER	surface		10.60	8.46	577.00	18.70	*558.30*	88.50	8.15	1390.0	814	*666*	6		
04/19/10	2:25 PM	1004-EMDASPST-0092	Moshassuck River @ Mill St	RIVER	surface		12.38	7.37	546.00	7.26	*538.74*	57.90	<4.00	2510.0	750	*604*	8		
04/19/10	11:05 AM	1004-EMDASPST-0089	Pawtuxet @ Terminal Falls	RIVER	surface		11.18	7.67	530.00	7.78	*522.22*	358.00	49.20	1320.0	1110	*888*	2		
04/19/10	11:05 AM	1004-EMDASPST-0090	Pawtuxet @ Terminal Falls	RIVER	surface		11.18	7.67	530.00	6.98	*523.02*	355.00	49.70	1400.0	1320	*885*	4		
04/19/10	1:30 PM	1004-EMDASPST-0096	Taunton River @ Berkley Bridge	RIVER	surface		10.98	7.71	368.00	16.80	*351.20*	102.00	6.47	706.0	754	*470*	6		
04/19/10	9:55 AM	1004-EMDASPST-0095	Ten Mile @ Outlet of Omega Pond	RIVER	surface		12.10	7.80	1500.00	13.70	*1486.30*	18.40	12.40	1400.0	1930	*1518*	12		
04/19/10	2:25 PM	1004-EMDASPST-0091	Woonasquatucket @ Valley St	RIVER	surface		13.07	7.68	497.00	3.92	*493.08*	15.50	<4.00	1720.0	671	*513*	<2.0		
04/19/10	11:25 AM	1004-EMDASPST-0088	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/26/10	10:00 AM	1004-EMDASPST-0125	Pomham Rocks	BAY	0.5	18.29	11.61		362.00	12.20	*349.80*	224.00	27.80	930.0	744	*586*	116		
04/26/10	1:30 PM	1004-EMDASPST-0127	Phillipsdale Landing	BAY	0.5	8.67	13.62		616.00	17.90	*598.10*	112.00	54.70	794.0	900	*728*	82		
04/26/10	12:55 PM	1004-EMDASPST-0126	India Point Park	BAY	0.5	13.27	12.14		516.00	15.40	*500.60*	110.00	30.90	1060.0	795	*626*	110		
04/26/10	8:50 AM	1004-EMDASPST-0121	Conimicut Point	BAY	0.5	21.00	11.77		183.00	7.59	*175.41*	237.00	18.50	685.0	614	*420*	170		
04/26/10	9:20 AM	1004-EMDASPST-0122	Bullocks Reach Buoy	BAY	0.5	18.66	11.67		314.00	8.85	*305.15*	339.00	30.70	889.0	828	*653*	146		
04/26/10	10:10 AM	1004-EMDASPST-0123	Edgewood Yacht Club	BAY	0.5	18.56	11.60		304.00	12.80	*291.20*	399.00	26.20	916.0	878	*703*	122		
04/26/10	10:10 AM	1004-EMDASPST-0124	Edgewood Yacht Club	BAY	0.5	18.56	11.60		284.00	11.80	*272.20*	399.00	30.30	869.0	885	*683*	138		
04/26/10	12:35 PM	1004-EMDASPST-0120	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20.00	<100.00	*			
04/26/10	10:00 AM	1004-EMDASPST-0141	Pomham Rocks	BAY CHL	0.5	18.29												1.769	1.321
04/26/10	1:30 PM	1004-EMDASPST-0144	Phillipsdale Landing	BAY CHL	0.5	8.67												3.436	1.65
04/26/10	12:55 PM	1004-EMDASPST-0142	India Point Park	BAY CHL	0.5	13.27												2.74	1.828
04/26/10	8:50 AM	1004-EMDASPST-0140	Conimicut Point	BAY CHL	0.5	21.00												2.993	1.495
04/26/10	9:20 AM	1004-EMDASPST-0143	Bullocks Reach Buoy	BAY CHL	0.5	18.66												2.103	1.734
04/26/10	10:10 AM	1004-EMDASPST-0138	Edgewood Yacht Club	BAY CHL	0.5	18.56												2.458	1.952
04/26/10	10:10 AM	1004-EMDASPST-0139	Edgewood Yacht Club	BAY CHL	0.5	18.56												2.516	1.801
04/26/10	11:30 AM	1004-EMDASPST-0134	Blackstone River at Slater Dam	RIVER	surface		13.71	6.93	705.00	21.10	*683.90*	<7.00	5.36	1770.0	893	*	<2.0		
04/26/10	10:30 AM	1004-EMDASPST-0133	Blackstone River at Stateline	RIVER	surface		13.40	6.83	650.00	8.07	*641.93*	7.00	11.30	1620.0	864	*657*	2		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
04/26/10	9:45 AM	1004-EMDASPST-0132	Moshassuck River @ Mill St	RIVER	surface		12.36	6.77	513.00	3.24	*509.76*	94.60	<4.00	2610.0	744	*608*	4		
04/26/10	8:20 AM	1004-EMDASPST-0129	Pawtuxet @ Terminal Falls	RIVER	surface		12.95	7.00	521.00	13.90	*507.10*	760.00	68.10	1620.0	1450	*1281*	12		
04/26/10	8:20 AM	1004-EMDASPST-0130	Pawtuxet @ Terminal Falls	RIVER	surface		12.95	7.00	520.00	14.30	*505.70*	732.00	64.40	2020.0	1450	*1252*	4		
04/26/10	2:00 PM	1004-EMDASPST-0136	Taunton River @ Berkley Bridge	RIVER	surface		13.63	6.37	388.00	9.79	*378.21*	66.70	7.31	625.0	744	*455*	2		
04/26/10	3:30 PM	1004-EMDASPST-0135	Ten Mile @ Outlet of Omega Pond	RIVER	surface		14.56	7.02	1540.00	11.10	*1528.90*	7.00	7.64	880.0	1860	*1547*	4		
04/26/10	9:05 AM	1004-EMDASPST-0131	Woonasquatucket @ Valley St	RIVER	surface		12.93	6.92	467.00	5.91	*461.09*	7.00	<4.00	1440.0	650	*474*	6		
04/26/10	2:18 PM	1004-EMDASPST-0128	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
05/06/10	9:40 AM	1004-EMDASPST-0057	Bullocks Reach Buoy	BAY	0.5	25.41	14.84		76.60	3.57	*73.03*	12.50	<4.00	408.0	260	*89*	44		
05/06/10	10:55 AM	1004-EMDASPST-0061	India Point Park	BAY	0.5	13.64	16.01		609.00	13.40	*595.60*	84.10	47.40	662.0	849	*693*	26		
05/06/10	1:07 PM	1004-EMDASPST-0060	Pomham Rocks	BAY	0.6	22.63	14.85		187.00	8.06	*178.94*	224.00	30.00	614.0	582	*411*	36		
05/06/10	10:25 AM	1004-EMDASPST-0062	Phillipsdale Landing	BAY	0.6	4.16	17.69		838.00	19.80	*818.20*	87.80	91.90	691.0	1120	*926*	14		
05/06/10	9:18 AM	1004-EMDASPST-0056	Conimicut Point	BAY	0.6	25.74	14.46		77.80	2.61	*75.19*	34.60	5.94	401.0	261	*112*	42		
05/06/10	1:25 PM	1004-EMDASPST-0058	Edgewood Yacht Club	BAY	0.6	23.14	15.00		176.00	7.39	*168.61*	170.00	24.70	572.0	507	*346*	38		
05/06/10	1:25 PM	1004-EMDASPST-0059	Edgewood Yacht Club	BAY	0.6	23.14	15.00		175.00	7.93	*167.07*	170.00	24.60	572.0	506	*345*	44		
05/06/10		1004-EMDASPST-0055	Nutrient Blank	BAY					<6.0	<1.5	*	<7.0	<4.00	<20	<100	*			
05/06/10	9:40 AM	1004-EMDASPST-0151	Bullocks Reach Buoy	BAY CHL	0.5	25.41												4.741	1.944
05/06/10	10:05 AM	1004-EMDASPST-0150	India Point Park	BAY CHL	0.5	13.64												3.504	2.268

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
05/06/10	1:07 PM	1004-EMDASPST-0149	Pomham Rocks	BAY CHL	0.6	22.63												2.905	1.434
05/06/10	10:25 AM	1004-EMDASPST-0152	Phillipsdale Landing	BAY CHL	0.6	4.16												6.906	3.707
05/06/10	9:18 AM	1004-EMDASPST-0146	Conimicut Point	BAY CHL	0.6	25.74												2.92	1.235
05/06/10	1:25 PM	1004-EMDASPST-0147	Edgewood Yacht Club	BAY CHL	0.6	23.14												1.197	1.095
05/06/10	1:25 PM	1004-EMDASPST-0148	Edgewood Yacht Club	BAY CHL	0.6	23.14												1.453	0.839
05/06/10	9:25 AM	1004-EMDASPST-0159	Blackstone River at Slater Dam	RIVER	surface		18.09	8.45	847.00	21.10	*825.90*	34.80	5.98	1190.0	1110	*882*	6		
05/06/10	8:35 AM	1004-EMDASPST-0158	Blackstone River at Stateline	RIVER	surface		18.18	7.20	947.00	26.90	*920.10*	43.60	18.50	1560.0	1210	*991*	4		
05/06/10	2:50 PM	1004-EMDASPST-0157	Moshassuck River @ Mill St	RIVER	surface		17.59	7.98	568.00	16.70	*551.30*	134.00	<4.00	3030.0	919	*702*	2		
05/06/10	10:30 AM	1004-EMDASPST-0154	Pawtuxet @ Terminal Falls	RIVER	surface		17.29	8.02	655.00	36.50	*618.50*	981.00	90.30	2060.0	1890	*1636*	6		
05/06/10	10:30 AM	1004-EMDASPST-0155	Pawtuxet @ Terminal Falls	RIVER	surface		17.29	8.02	646.00	37.00	*609.00*	965.00	89.70	1820.0	1900	*1611*	6		
05/06/10	1:30 PM	1004-EMDASPST-0161	Taunton River @ Berkley Bridge	RIVER	surface		17.50	7.58	502.00	13.30	*488.70*	121.00	12.50	1160.0	957	*623*	<2.0		
05/06/10	9:50 AM	1004-EMDASPST-0160	Ten Mile @ Outlet of Omega Pond	RIVER	surface		19.00	8.29	1720.00	14.10	*1705.90*	7.00	<4.00	33.9	2010	*1727*	6		
05/06/10	2:25 PM	1004-EMDASPST-0156	Woonasquatucket @ Valley St	RIVER	surface		18.10	8.12	660.00	<1.5	*	7.00	<4.00	1470.0	945	*667*	4		
05/06/10	10:20 AM	1004-EMDASPST-0153	Nutrient Blank	RIVER					<6.0	37.60	*	<7.0	<4.0	<20	<100	*			
06/02/10	10:20 AM	1005-EMDASPST-0018	Pomham Rocks	BAY	0.5	22.20	20.73		106.00	22.00	*84.00*	<7.00	<4.00	6.2	301	*	26		
06/02/10	10:35 AM	1005-EMDASPST-0016	Edgewood Yacht Club	BAY	0.5	21.31	20.79		266.00	44.20	*221.80*	99.20	23.20	251.0	601	*365*	44		
06/02/10	10:35 AM	1005-EMDASPST-0017	Edgewood Yacht Club	BAY	0.5	21.31	20.79		267.00	44.00	*223.00*	98.30	25.80	225.0	623	*365*	40		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/02/10	2:00 PM	1005-EMDASPST-0020	Phillipsdale Landing	BAY	0.5	7.75	23.75		762.00	21.30	*740.70*	23.40	188.00	1200.0	1300	*785*	18		
06/02/10	9:35 AM	1005-EMDASPST-0015	Bullocks Reach Buoy	BAY	0.5	22.47	20.03		55.90	16.90	*39.00*	<7.00	<4.00	36.3	272	*	52		
06/02/10	1:26 PM	1005-EMDASPST-0019	India Point Park	BAY	0.5	15.31	23.22		363.00	17.10	*345.90*	<7.00	16.20	467.0	632	*	40		
06/02/10	9:55 AM	1005-EMDASPST-0014	Conimicut Point	BAY	0.6	23.87	20.51		26.10	8.82	*17.28*	<7.0	<4.00	42.7	257	*	74		
06/02/10	1:00 PM	1005-EMDASPST-0011	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
06/02/10	10:20 AM	1006-EMDASPST-0004	Pomham Rocks	BAY CHL	0.5	22.20												37.686	14.268
06/02/10	10:35 AM	1006-EMDASPST-0002	Edgewood Yacht Club	BAY CHL	0.5	21.31												21.359	10.518
06/02/10	10:35 AM	1006-EMDASPST-0003	Edgewood Yacht Club	BAY CHL	0.5	21.31												20.469	8.915
06/02/10	2:00 PM	1006-EMDASPST-0007	Phillipsdale Landing	BAY CHL	0.5	7.75												22.498	5.731
06/02/10	9:35 AM	1006-EMDASPST-0006	Bullocks Reach Buoy	BAY CHL	0.5	22.47												28.777	9.859
06/02/10	1:26 PM	1006-EMDASPST-0005	India Point Park	BAY CHL	0.5	15.31												31.535	5.807
06/02/10	9:55 AM	1006-EMDASPST-0001	Conimicut Point	BAY CHL	0.6	23.87												22.022	8.526
06/02/10	10:15 AM	1005-EMDASPST-0022	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		22.28	7.42	836.00	1.40	*834.60*	<7.00	39.60	1840.0	1840	*	8		
06/02/10	11:00 AM	1005-EMDASPST-0023	Blackstone River at Slater Dam	RIVER	surface		22.37	7.55	783.00	959.00	*-176.00*	<7.0	17.90	1780.0	1020	*	8		
06/02/10	11:00 AM	1005-EMDASPST-0024	Blackstone River at Slater Dam	RIVER	surface		22.37	7.55	764.00	8.97	*755.03*	<7.00	17.90	1940.0	1030	*	12		
06/02/10	8:50 AM	1005-EMDASPST-0021	Blackstone River at Stateline	RIVER	surface		21.80	7.57	934.00	16.70	*917.30*	12.00	19.70	1980.0	1300	*946*	6		
06/02/10	10:05 AM	1005-EMDASPST-0035	Coles River @ Milford Rd, Swansea	RIVER	surface				102.00	5.14	*96.86*	63.90	23.70	1000.0	760	*166*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/02/10	9:45 AM	1005-EMDASPST-0036	Lee's River @ Rt. 6, Swansea	RIVER	surface				6.64	<1.5	*	<7.00	<4.00	168.0	257	*	76		
06/02/10	1:05 PM	1005-EMDASPST-0028	Moshassuck River @ Higginson Ave	RIVER	surface		22.91	7.38	209.00	12.10	*196.90*	80.40	7.55	3200.0	543	*289*	<2.0		
06/02/10	3:10 PM	1005-EMDASPST-0029	Moshassuck River @ Mill St	RIVER	surface		21.16	7.18	649.00	26.30	*622.70*	104.00	<4.00	3540.0	986	*753*	6		
06/02/10	3:45 PM	1005-EMDASPST-0025	Pawtuxet @ Terminal Falls	RIVER	surface		22.55	6.84	558.00	58.60	*499.40*	1580.00	149.00	2660.0	2550	*2138*	4		
06/02/10	12:40 PM	1005-EMDASPST-0033	Pawtuxet @ Terminal Falls	RIVER	surface		24.05	7.20	33.60	<1.5	*	<7.00	<4.00	672.0	322	*	56		
06/02/10	1:00 PM	1005-EMDASPST-0032	Runnins @ River Road on RI-MA Border	RIVER	surface		21.05	8.32	511.00	11.50	*499.50*	41.90	4.63	3720.0	998	*553*	6		
06/02/10	8:50 AM	1005-EMDASPST-0037	Taunton River @ Berkley Bridge	RIVER	surface				911.00	14.30	*896.70*	<7.00	112.00	2250.0	1420	*918*	6		
06/02/10	2:25 PM	1005-EMDASPST-0030	Ten Mile @ Outlet of Omega Pond	RIVER	surface		23.40	7.92	1610.00	20.20	*1589.80*	7.80	5.93	562.0	1910	*1618*	4		
06/02/10	2:25 PM	1005-EMDASPST-0031	Ten Mile @ Outlet of Omega Pond	RIVER	surface		23.40	7.92	1600.00	20.00	*1580.00*	13.70	6.28	527.0	2040	*1614*	6		
06/02/10	2:25 PM		Ten Mile @ Outlet of Omega Pond	RIVER	surface				1605.00	20.10	*1584.90*	10.75	6.11	544.50	1975.00	*1615.75*			
06/02/10	10:30 AM	1005-EMDASPST-0034	Warren Reservoir/Kickemuit River	RIVER	surface				106.00	10.00	*96.00*	36.20	4.51	397.0	657	*142*	4		
06/02/10	1:45 PM	1005-EMDASPST-0026	Woonasquatucket @ Manton Ave	RIVER	surface		24.14	7.14	350.00	5.53	*344.47*	<7.00	<4.00	1140.0	615	*	4		
06/02/10	2:10 PM	1005-EMDASPST-0027	Woonasquatucket @ Valley St	RIVER	surface		23.33	7.37	454.00	8.19	*445.81*	146.00	23.60	1430.0	952	*600*	<2.0		
06/02/10	3:20 PM	1005-EMDASPST-0013	Nutrient Blank	RIVER					<6.0	<1.5	*	<6.0	<4.00	<20	<100	*			
06/02/10	2:45 PM	1005-EMDASPST-0013	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.0	<4.0	<20	<100	*			
06/03/10	2:15 PM	1006-EMDASPST-0008	Bullocks Reach Buoy	BAY CHL	surface CHL														
06/03/10	2:15 PM	1006-EMDASPST-0009	Bullocks Reach Buoy	BAY CHL	surface CHL														

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/07/10	2:15 PM	1006-EMDASPST-0008	Bullocks Reach Buoy	BAY CHL	surface CHL													20.72	1.601
06/07/10	2:15 PM	1006-EMDASPST-0009	Bullocks Reach Buoy	BAY CHL	surface CHL													14.978	3.478
06/16/10	8:55 AM	1006-EMDASPST-0019	Phillipsdale Landing	BAY	0.5	16.89	19.99	7.87	401.00	14.30	*386.70*	<7.00	34.20	1510.0	608	*	52		
06/16/10	8:55 AM	1006-EMDASPST-0034	Phillipsdale Landing	BAY CHL	0.5	16.89												83.077	6.986
06/16/10	3:00 PM	1006-EMDASPST-0017	Pomham Rocks	BAY	0.5	21.72	20.64	n/a	6.10	<1.5	*	<7.00	<4.00	783.0	223	*	52		
06/16/10	3:00 PM	1006-EMDASPST-0031	Pomham Rocks	BAY CHL	0.5	21.72												157.037	-2.462
06/16/10	3:30 PM	1006-EMDASPST-0018	India Point Park	BAY	0.6	20.34	20.39	n/a	31.50	3.90	*27.60*	<7.00	5.89	1170.0	244	*	70		
06/16/10	3:30 PM	1006-EMDASPST-0032	India Point Park	BAY CHL	0.6	20.34												19.443	5.628
06/16/10	2:25 PM	1006-EMDASPST-0013	Conimicut Point	BAY	0.6	25.76	20.06	n/a	<6.0	<1.5	*	<7.00	<4.00	140.0	207	*	52		
06/16/10	2:25 PM	1006-EMDASPST-0028	Conimicut Point	BAY CHL	0.6	25.76												12.782	3.407
06/16/10	9:15 AM	1006-EMDASPST-0014	Bullocks Reach Buoy	BAY	0.6	23.92	19.60	n/a	6.19	<1.5	*	<7.00	27.20	418.0	373	*	54		
06/16/10	9:15 AM	1006-EMDASPST-0033	Bullocks Reach Buoy	BAY CHL	0.6	23.92												25.201	3.874
06/16/10	4:00 PM	1006-EMDASPST-0015	Edgewood Yacht Club	BAY	surface				<6.0	<1.5	*	<7.00	<4.00	7.9	203	*	52		
06/16/10	3:00 PM	1006-EMDASPST-0016	Edgewood Yacht Club	BAY	surface				6.45	<1.5	*	<7.00	<4.00	775.0	304	*	52		
06/16/10	8:00 AM	1006-EMDASPST-0011	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
06/16/10	4:00 PM	1006-EMDASPST-0029	Edgewood Yacht Club	BAY CHL	surface CHL													111.203	3.922
06/16/10	4:00 PM	1006-EMDASPST-0030	Edgewood Yacht Club	BAY CHL	surface CHL													106.576	13.51

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/16/10	10:25 AM	1006-EMDASPST-0021	Blackstone River at Slater Dam	RIVER	surface		19.97	8.14	767.00	13.80	*753.20*	27.00	49.20	2420.0	1010	*794*	4		
06/16/10	10:25 AM	1006-EMDASPST-0022	Blackstone River at Slater Dam	RIVER	surface		19.97	8.14	6.19	14.00	*-7.81*	24.20	49.00	2440.0	1070	*30*	4		
06/16/10	10:50 AM	1006-EMDASPST-0026	Moshassuck River @ Higginson Ave	RIVER	surface		20.52	7.64	281.00	14.70	*266.30*	45.60	10.70	2960.0	548	*327*	2		
06/16/10	2:00 PM	1006-EMDASPST-0027	Moshassuck River @ Mill St	RIVER	surface		18.93	7.27	591.00	19.30	*571.70*	93.30	5.95	3840.0	1020	*684*	2		
06/16/10	3:45 PM	1006-EMDASPST-0023	Pawtuxet @ Terminal Falls	RIVER	surface		20.44	7.52	791.00	95.80	*695.20*	771.00	76.60	2250.0	1750	*1562*	8		
06/16/10	920 AM	1006-EMDASPST-0020	Ten Mile @ Outlet of Omega Pond	RIVER	surface		20.50	8.41	1850.00	20.90	*1829.10*	29.90	12.70	1110.0	2170	*1880*	6		
06/16/10	1:10 PM	1006-EMDASPST-0024	Woonasquatucket @ Manton Ave	RIVER	surface		21.76	7.92	333.00	3.79	*329.21*	25.20	6.59	1220.0	566	*358*	2		
06/16/10	1:40 PM	1006-EMDASPST-0025	Woonasquatucket @ Valley St	RIVER	surface		21.23	7.71	452.00	5.57	*446.43*	245.00	33.10	1430.0	1120	*697*	4		
06/16/10	2:45 PM	1006-EMDASPST-0012	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<4.00	<20	<100	*			
06/22/10	10:55 AM	1006-EMDASPST-0059	Bullocks Reach Buoy	BAY CHL	surface CHL	25.68												238.746	17.698
06/22/10	11:00 AM	1006-EMDASPST-0060	Bullocks Reach Buoy	BAY CHL	surface CHL	28.17												60.24	11.771
07/01/10	1:45 PM	1007-EMDASPST-0003	Phillipsdale Landing	BAY CHL	surface CHL													52.486	5.218
07/01/10	9:50 AM	1007-EMDASPST-0001	Bullocks Reach Buoy	BAY CHL	surface CHL													26.752	4.718
07/01/10	10:00 AM	1007-EMDASPST-0002	Bullocks Reach Buoy	BAY CHL	surface CHL													21.703	3.832
07/06/10	9:25 AM	1007-EMDASPST-0007	Bullocks Reach Buoy	BAY CHL	0.7	28.24												9.596	2.906
07/06/10	9:35 AM	1007-EMDASPST-0008	Bullocks Reach Buoy	BAY CHL	3.6	29.05												11.172	2.127
07/07/10	10:15 AM	1007-EMDASPST-0023	Phillipsdale Landing	BAY	0.5	21.17	25.40	7.85	44.30	7.91	*36.39*	112.00	110.00	443.0	373	*156*	274		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/07/10	10:15 AM	1007-EMDASPST-0024	Phillipsdale Landing	BAY	1.8	22.62	25.53	7.40	29.90	5.45	*24.45*	141.00	153.00	635.0	419	*171*	236		
07/07/10	9:15 AM	1007-EMDASPST-0011	Conimicut Point	BAY	bottom				<6.0	<1.5	*	<7.00	13.10	108.0	202	*	246		
07/07/10	12:55 PM	1007-EMDASPST-0015	Edgewood Yacht Club	BAY	bottom				7.63	<1.5	*	<7.00	10.70	<20	199	*	314		
07/07/10	1:40 PM	1007-EMDASPST-0020	India Point Park	BAY	bottom				<6.0	<1.5	*	<7.00	33.80	35.7	179	*	236		
07/07/10	10:25 AM	1007-EMDASPST-0018	Pomham Rocks	BAY	bottom				6.92	<1.5	*	69.20	51.60	153.0	288	*76*	262		
07/07/10	9:50 AM	1007-EMDASPST-0013	Bullocks Reach Buoy	BAY	bottom				6.94	<1.5	*	<7.00	14.60	83.1	238	*	248		
07/07/10	8:50 AM	1007-EMDASPST-0010	Conimicut Point	BAY	surface				13.60	<1.5	*	17.20	50.20	868.0	223	*31*	252		
07/07/10	12:55 PM	1007-EMDASPST-0014	Edgewood Yacht Club	BAY	surface				38.60	3.94	*34.66*	42.50	130.00	1130.0	307	*81*	284		
07/07/10	1:00 PM	1007-EMDASPST-0016	Edgewood Yacht Club	BAY	surface				6.36	<1.5	*	<7.00	11.60	<20	178	*	228		
07/07/10	1:30 PM	1007-EMDASPST-0019	India Point Park	BAY	surface				17.30	1.69	*15.61*	152.00	103.00	903.0	340	*169*	300		
07/07/10	10:15 AM	1007-EMDASPST-0017	Pomham Rocks	BAY	surface				13.40	<1.5	*	46.20	65.90	800.0	217	*60*	272		
07/07/10	9:35 AM	1007-EMDASPST-0012	Bullocks Reach Buoy	BAY	surface				13.30	<1.5	*	63.50	74.60	1140.0	241	*77*	280		
07/07/10	1:20 PM	1007-EMDASPST-0021	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
07/07/10	12:55 PM	1007-EMDASPST-0034	Edgewood Yacht Club	BAY CHL	bottom													42.659	2.632
07/07/10	12:55 PM	1007-EMDASPST-0035	Edgewood Yacht Club	BAY CHL	bottom													48.581	3.539
07/07/10	8:50 AM	1007-EMDASPST-0033	Conimicut Point	BAY CHL	surface CHL													5.351	1.309
07/07/10	1:30 PM	1007-EMDASPST-0037	India Point Park	BAY CHL	surface CHL													23.54	3.229

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/07/10	10:15 AM	1007-EMDASPST-0039	Phillipsdale Landing	BAY CHL	surface CHL													11.398	19.194
07/07/10	10:15 AM	1007-EMDASPST-0036	Pomham Rocks	BAY CHL	surface CHL													22.927	5.298
07/07/10	9:35 AM	1007-EMDASPST-0038	Bullocks Reach Buoy	BAY CHL	surface CHL													10.713	1.907
07/07/10	9:15 AM	1007-EMDASPST-0027	Blackstone River at Slater Dam	RIVER	surface		26.62	7.84	464.00	11.40	*452.60*	39.80	<5.00	34.2	783	*504*	22		
07/07/10	9:15 AM	1007-EMDASPST-0028	Blackstone River at Slater Dam	RIVER	surface		26.62	7.84	464.00	11.40	*452.60*	38.30	<5.00	40.5	774	*502*	20		
07/07/10	8:30 AM	1007-EMDASPST-0026	Blackstone River at Stateline	RIVER	surface		26.53	7.82	961.00	9.80	*951.20*	<7.00	25.40	899.0	1320	*	12		
07/07/10	10:55 AM	1007-EMDASPST-0029	Pawtuxet @ Terminal Falls	RIVER	surface		26.06	7.29	2150.00	163.00	*1987.00*	130.00	255.00	2040.0	2720	*2280*	28		
07/07/10	1:25 PM	1007-EMDASPST-0032	Taunton River @ Berkley Bridge	RIVER	surface		25.04	7.19	660.00	12.50	*647.50*	<7.00	46.20	2020.0	1060	*	44		
07/07/10	9:55 AM	1007-EMDASPST-0025	Ten Mile @ Outlet of Omega Pond	RIVER	surface		28.62	8.55	956.00	17.60	*938.40*	30.60	<5.00	506.0	1390	*987*	22		
07/07/10	2:20 PM	1007-EMDASPST-0030	Woonasquatucket @ Manton Ave	RIVER	surface		24.09	7.62	143.00	4.33	*138.67*	<7.00	5.95	1400.0	423	*	20		
07/07/10	2:45 PM	1007-EMDASPST-0031	Woonasquatucket @ Valley St	RIVER	surface		25.83	7.22	370.00	26.80	*343.20*	841.00	70.60	2020.0	1630	*1211*	12		
07/07/10	11:00 AM	1007-EMDASPST-0022	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
07/09/10	10:00AM	1007-EMDASPST-0045	Bullocks Reach Buoy	BAY CHL	surface CHL													5.21	2.912
07/09/10	10:00AM	1007-EMDASPST-0046	Bullocks Reach Buoy	BAY CHL	surface CHL													5.886	2.488
07/21/10	9:00 AM	1007-EMDASPST-0066	Phillipsdale Landing	BAY	0.5	25.52	24.91	6.92	136.00	9.54	*126.46*	211.00	170.00	872.0	596	*347*	164		
07/21/10	9:55 AM	1007-EMDASPST-0060	Conimicut Point	BAY	surface				6.93	<1.5	*	<7.00	34.90	163.0	200	*	94		
07/21/10	2:00 PM	1007-EMDASPST-0062	Edgewood Yacht Club	BAY	surface				6.50	<1.5	*	<7.00	56.70	548.0	201	*	48		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/21/10	2:00 PM	1007-EMDASPST-0063	Edgewood Yacht Club	BAY	surface				6.73	<1.5	*	<7.00	59.30	547.0	330	*	96		
07/21/10	1:20 PM	1007-EMDASPST-0065	India Point Park	BAY	surface				77.60	7.77	*69.83*	<7.00	98.40	664.0	380	*	56		
07/21/10	10:22 AM	1007-EMDASPST-0064	Pomham Rocks	BAY	surface				6.70	<1.5	*	<7.0	40.10	264.0	232	*	70		
07/21/10	9:15 AM	1007-EMDASPST-0061	Bullocks Reach Buoy	BAY	surface				7.13	<1.5	*	<7.00	47.90	351.0	191	*	88		
07/21/10		1007-EMDASPST-0057	Nutrient Blank	BAY					<6.0	2.20	*	<7.00	<5.00	<20	<100	*			
07/21/10	10:25 AM	1007-EMDASPST-0090	Phillipsdale Landing	BAY CHL	0.5	16.33												45.985	15.284
07/21/10	9:15 AM	1007-EMDASPST-0089	Bullocks Reach Buoy	BAY CHL	0.6	25.40												23.367	7.307
07/21/10	2:00 PM	1007-EMDASPST-0085	Edgewood Yacht Club	BAY CHL	0.6	24.30												44.001	12.797
07/21/10	9:50 AM	1007-EMDASPST-0084	Conimicut Point	BAY CHL	0.7	25.60												27.084	14.265
07/21/10	1:20 PM	1007-EMDASPST-0088	India Point Park	BAY CHL	0.7	21.40												40.999	6.871
07/21/10	10:22 AM	1007-EMDASPST-0087	Pomham Rocks	BAY CHL	0.7	23.80												54.972	12.731
07/21/10	2:00 PM	1007-EMDASPST-0086	Edgewood Yacht Club	BAY CHL	surface CHL													46.055	12.059
07/21/10	9:35 AM	1007-EMDASPST-0091	Bullocks Reach Buoy	BAY CHL	surface CHL													22.047	6.99
07/21/10	9:05 AM	1007-EMDASPST-0068	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		26.22	8.71	694.00	13.50	*680.50*	<7.00	5.98	45.8	1180	*	16		
07/21/10	9:55 AM	1007-EMDASPST-0069	Blackstone River at Slater Dam	RIVER	surface		26.12	8.01	459.00	9.76	*449.24*	<7	<5.00	148.0	710	*	18		
07/21/10	9:55 AM	1007-EMDASPST-0070	Blackstone River at Slater Dam	RIVER	surface		26.12	8.01	450.00	9.14	*440.86*	<7	<5.0	180.0	720	*	20		
07/21/10	8:30 AM	1007-EMDASPST-0067	Blackstone River at Stateline	RIVER	surface		25.20	8.26	803.00	12.20	*790.80*	14.00	27.20	132.0	1170	*817*	12		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/21/10	10:45 AM	1007-EMDASPST-0081	Coles River @ Milford Rd, Swansea	RIVER	surface		27.84	7.39	217.00	18.40	*198.60*	246.00	35.90	1420.0	998	*463*	4		
07/21/10	12:10 PM	1007-EMDASPST-0082	Lee's River @ Rt. 6, Swansea	RIVER	surface		28.70	7.40	6.38	<1.5	*	<7.00	27.70	373.0	308	*	78		
07/21/10	9:25 AM	1007-EMDASPST-0074	Moshassuck River @ Higginson Ave	RIVER	surface		24.11	7.34	208.00	6.08	*201.92*	45.80	13.90	1800.0	471	*254*	4		
07/21/10	1:45 PM	1007-EMDASPST-0075	Moshassuck River @ Mill St	RIVER	surface		23.45	7.32	562.00	22.10	*539.90*	87.30	5.98	3530.0	872	*649*	6		
07/21/10	10:00 AM	1007-EMDASPST-0079	Palmer River @ Rte. 6 Swansea	RIVER	surface		26.52	6.91	126.00	5.02	*120.98*	57.60	16.40	2680.0	660	*184*	28		
07/21/10	2:25 PM	1007-EMDASPST-0071	Pawtuxet @ Terminal Falls	RIVER	surface		25.34	7.19	1490.00	28.90	*1461.10*	80.80	110.00	2870.0	1920	*1571*	4		
07/21/10	9:35 AM	1007-EMDASPST-0078	Runnins @ River Road on RI-MA Border	RIVER	surface		22.06	8.14	398.00	4.09	*393.91*	8.20	9.33	4210.0	907	*406*	4		
07/21/10	1:15 PM	1007-EMDASPST-0083	Taunton River @ Berkley Bridge	RIVER	surface		26.72	7.73	819.00	6.93	*812.07*	<7	59.10	2280.0	1190	*	8		
07/21/10	8:35 AM	1007-EMDASPST-0076	Ten Mile @ Outlet of Omega Pond	RIVER	surface		26.94	7.84	719.00	24.20	*694.80*	65.60	9.39	1630.0	1060	*785*	8		
07/21/10	8:30 AM	1007-EMDASPST-0077	Ten Mile @ Outlet of Omega Pond	RIVER	surface		26.94	7.84	699.00	21.20	*677.80*	80.90	8.84	1550.0	1190	*780*	6		
07/21/10	10:20 AM	1007-EMDASPST-0080	Warren Reservoir/Kickemuit River	RIVER	surface		25.12	7.67	36.70	6.73	*29.97*	13.20	10.40	1720.0	530	*50*	4		
07/21/10	12:55 PM	1007-EMDASPST-0072	Woonasquatucket @ Manton Ave	RIVER	surface		26.53	7.48	430.00	8.13	*421.87*	47.40	12.10	1380.0	689	*477*	4		
07/21/10	1:15 PM	1007-EMDASPST-0073	Woonasquatucket @ Valley St	RIVER	surface		25.64	7.52	566.00	6.79	*559.21*	13.20	8.75	1660.0	764	*579*	4		
07/21/10	1:25 PM	1007-EMDASPST-0059	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.0	<20	109	*			
07/21/10	11:00 AM	1007-EMDASPST-0058	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
08/03/10	11:00 AM	1008-EMDASPST-0001	Bullocks Reach Buoy	BAY CHL	surface CHL													12.064	3.048
08/03/10	11:08 AM	1008-EMDASPST-0002	Bullocks Reach Buoy	BAY CHL	surface CHL													12.212	3.429

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/04/10	9:30 AM	1008-EMDASPST-0004	Conimicut Point	BAY	0.6	28.77	23.46		6.58	<1.5	*	<7.00	42.20	1300.0	185	*	88		
08/04/10	10:00 AM	1008-EMDASPST-0013	Bullocks Reach Buoy	BAY	0.7	28.05	23.63		6.41	<1.5	*	<7.00	48.20	1350.0	228	*	64		
08/04/10	2:00 PM	1008-EMDASPST-0006	Edgewood Yacht Club	BAY	0.7	26.86	24.62		6.11	<1.5	*	<7.00	57.60	1020.0	201	*	80		
08/04/10	1:30 PM	1008-EMDASPST-0011	India Point Park	BAY	0.7	25.17	25.88		47.80	11.10	*36.70*	39.00	116.00	638.0	328	*87*	66		
08/04/10	10:34 AM	1008-EMDASPST-0009	Pomham Rocks	BAY	0.8	26.64	23.89		41.30	<1.5	*	8.29	71.30	1080.0	269	*50*	70		
08/04/10	2:10 PM	1008-EMDASPST-0008	Edgewood Yacht Club	BAY	4.7	27.26	23.94		<6.0	<1.5	*	<7.00	62.40	1100.0	254	*	74		
08/04/10	1:35 PM	1008-EMDASPST-0012	India Point Park	BAY	4.9	26.55	24.32		38.90	14.20	*24.70*	74.60	118.00	695.0	342	*114*	66		
08/04/10	10:10 AM	1008-EMDASPST-0014	Bullocks Reach Buoy	BAY	7.4	29.28	22.69		6.01	<1.5	*	42.80	25.70	1540.0	214	*49*	80		
08/04/10	10:40 AM	1008-EMDASPST-0010	Pomham Rocks	BAY	10.0	29.91	21.55		8.57	<1.5	*	110.00	94.20	1460.0	303	*119*	70		
08/04/10	9:35 AM	1008-EMDASPST-0005	Conimicut Point	BAY	10.4	30.19	20.76		7.35	<1.5	*	97.30	75.70	1480.0	311	*105*	86		
08/04/10	10:30 AM	1008-EMDASPST-0016	Phillipsdale Landing	BAY	bottom				27.20	4.94	*22.26*	208.00	178.00	542.0	529	*235*	176		
08/04/10	2:00 PM	1008-EMDASPST-0007	Edgewood Yacht Club	BAY	surface				6.15	<1.5	*	<7.00	58.50	1060.0	214	*	72		
08/04/10	10:30 AM	1008-EMDASPST-0015	Phillipsdale Landing	BAY	surface				146.00	7.76	*138.24*	<7.00	128.00	303.0	523	*	44		
08/04/10	2:25 PM	1008-EMDASPST-0003	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	214	*			
08/04/10	9:30 AM	1008-EMDASPST-0026	Conimicut Point	BAY CHL	0.6	28.77												20.349	4.438
08/04/10	10:00 AM	1008-EMDASPST-0031	Bullocks Reach Buoy	BAY CHL	0.7	28.05												13.112	4.95
08/04/10	2:00 PM	1008-EMDASPST-0027	Edgewood Yacht Club	BAY CHL	0.7	26.86												15.509	4.779

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/04/10	2:00 PM	1008-EMDASPST-0028	Edgewood Yacht Club	BAY CHL	0.7	26.86												27.003	8.506
08/04/10	1:30 PM	1008-EMDASPST-0030	India Point Park	BAY CHL	0.7	25.17												28.574	8.452
08/04/10	10:34 AM	1008-EMDASPST-0029	Pomham Rocks	BAY CHL	0.8	26.64												19.585	5.379
08/04/10	10:30 AM	1008-EMDASPST-0032	Phillipsdale Landing	BAY CHL	surface CHL													61.25	23.481
08/04/10	11:00 AM	1008-EMDASPST-0019	Blackstone River at Slater Dam	RIVER	surface				246.00	8.77	*237.23*	<7	<5.00	<20	617	*	34		
08/04/10	11:00 AM	1008-EMDASPST-0020	Blackstone River at Slater Dam	RIVER	surface				244.00	8.90	*235.10*	<7	<5.00	<20	567	*	36		
08/04/10	12:55 PM	1008-EMDASPST-0024	Moshassuck River @ Higginson Ave	RIVER	surface		22.78	7.52	216.00	2.83	*213.17*	20.10	9.41	3120.0	521	*236*	6		
08/04/10	2:45 PM	1008-EMDASPST-0025	Moshassuck River @ Mill St	RIVER	surface		22.10	7.40	651.00	14.20	*636.80*	29.00	<5.00	4390.0	836	*680*	6		
08/04/10	3:25 PM	1008-EMDASPST-0021	Pawtuxet @ Terminal Falls	RIVER	surface		23.50	7.15	2250.00	9.77	*2240.23*	10.80	145.00	2170.0	2660	*2261*	8		
08/04/10	10:00 AM	1008-EMDASPST-0018	Ten Mile @ Outlet of Omega Pond	RIVER	surface				784.00	31.20	*752.80*	272.00	22.30	2200.0	1480	*1056*	12		
08/04/10	1:35 PM	1008-EMDASPST-0022	Woonasquatucket @ Manton Ave	RIVER	surface		24.99	7.42	327.00	3.45	*323.55*	21.30	<5.00	793.0	609	*348*	2		
08/04/10	2:20 PM	1008-EMDASPST-0023	Woonasquatucket @ Valley St	RIVER	surface		23.99	7.53	637.00	4.31	*632.69*	<7	<5.00	1560.0	811	*	<2.0		
08/04/10	3:35 PM	1008-EMDASPST-0017	Nutrient Blank	river					<6.0	<1.5	*	<7.0	<5.0	<20	<100	*			
08/17/10	11:15 AM	1008-EMDASPST-0045	Bullocks Reach Buoy	BAY CHL	surface CHL													16.199	6.193
08/17/10	11:25 AM	1008-EMDASPST-0046	Bullocks Reach Buoy	BAY CHL	surface CHL													10.746	4.56
08/18/10	10:15 AM	1008-EMDASPST-0043	India Point Park	BAY	0.6	19.52	25.27	8.56	62.10	7.94	*54.16*	<7.00	78.00	452.0	353	*	32		
08/18/10	1:20 PM	1008-EMDASPST-0044	Phillipsdale Landing	BAY	0.6	17.58	25.55	8.76	19.40	<1.5	*	<7.00	73.30	229.0	369	*	44		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/18/10	9:54 AM	1008-EMDASPST-0040	Edgewood Yacht Club	BAY	0.6	24.81	25.07	8.25	41.00	17.60	*23.40*	33.40	83.00	850.0	336	*74*	14		
08/18/10	10:32 AM	1008-EMDASPST-0041	Edgewood Yacht Club	BAY	0.6	24.81	25.07	8.25	49.60	17.60	*32.00*	27.30	81.50	857.0	339	*77*	38		
08/18/10	10:32 AM	1008-EMDASPST-0042	Pomham Rocks	BAY	0.6	25.72	24.88	8.14	38.90	9.90	*29.00*	70.20	111.00	855.0	380	*109*	60		
08/18/10	9:28 AM	1008-EMDASPST-0038	Conimicut Point	BAY	0.6	27.28	24.51	8.26	8.61	<1.5	*	<7.00	45.90	1000.0	238	*	46		
08/18/10	9:28 AM	1008-EMDASPST-0039	Bullocks Reach Buoy	BAY	0.6	26.47	24.54	8.38	55.10	9.01	*46.09*	<7.00	61.90	725.0	368	*	20		
08/18/10	9:00 AM	1008-EMDASPST-0037	Nutrient Blank	BAY					14.30	<1.5	*	<7.00	<5.00	<20	<100	*			
08/18/10	12:48 PM	1008-EMDASPST-0070	India Point Park	BAY CHL	0.6	19.52												103.099	11.933
08/18/10	1:20 PM	1008-EMDASPST-0072	Phillipsdale Landing	BAY CHL	0.6	17.58												143.574	17.451
08/18/10	9:54 AM	1008-EMDASPST-0071	Bullocks Reach Buoy	BAY CHL	0.6	26.47												50.275	10.96
08/18/10	10:32 AM	1008-EMDASPST-0067	Edgewood Yacht Club	BAY CHL	0.6	24.81												26.2	21.682
08/18/10	10:32 AM	1008-EMDASPST-0068	Edgewood Yacht Club	BAY CHL	0.6	24.81												35.98	8.355
08/18/10	10:15 AM	1008-EMDASPST-0069	Pomham Rocks	BAY CHL	0.6	25.72												40.501	5.979
08/18/10	9:28 AM	1008-EMDASPST-0066	Conimicut Point	BAY CHL	0.6	27.28												40.777	5.986
08/18/10	9:25 AM	1008-EMDASPST-0048	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		24.19	7.90	1310.00	14.30	*1295.70*	12.50	5.50	433.0	1800	*1323*	12		
08/18/10	8:45 AM	1008-EMDASPST-0049	Blackstone River at Slater Dam	RIVER	surface		24.00	7.81	928.00	21.50	*906.50*	11.00	5.31	139.0	1310	*939*	6		
08/18/10	8:45 AM	1008-EMDASPST-0050	Blackstone River at Slater Dam	RIVER	surface		24.00	7.81	917.00	21.90	*895.10*	12.10	4.70	92.3	1300	*929*	6		
08/18/10	10:05 AM	1008-EMDASPST-0047	Blackstone River at Stateline	RIVER	surface		23.00	7.75	1800.00	11.80	*1788.20*	10.90	36.60	1630.0	2170	*1811*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/18/10	11:00 AM	1008-EMDASPST-0063	Coles River @ Milford Rd, Swansea	RIVER	surface		24.27	8.39	104.00	4.31	*99.69*	67.30	20.90	828.0	711	*171*	<2.0		
08/18/10	12:30 PM	1008-EMDASPST-0064	Lee's River @ Rt. 6, Swansea	RIVER	surface		26.04	7.09	14.00	<1.5	*	<7.00	20.50	1010.0	287	*	20		
08/18/10	11:15 AM	1008-EMDASPST-0054	Moshassuck River @ Higginson Ave	RIVER	surface		20.85	7.50	222.00	3.28	*218.72*	27.80	10.00	2760.0	522	*250*	<2.0		
08/18/10	2:35 PM	1008-EMDASPST-0055	Moshassuck River @ Mill St	RIVER	surface		20.89	7.51	691.00	18.00	*673.00*	52.00	<5.00	4690.0	983	*743*	2		
08/18/10	9:45 AM	1008-EMDASPST-0061	Palmer River @ Rte. 6 Swansea	RIVER	surface		24.91	7.21	35.50	<1.5	*	<7.00	7.64	1090.0	447	*	20		
08/18/10	3:20 PM	1008-EMDASPST-0051	Pawtuxet @ Terminal Falls	RIVER	surface		23.84	7.37	1800.00	8.96	*1791.04*	24.00	272.00	1860.0	2410	*1824*	2		
08/18/10	9:20 AM	1008-EMDASPST-0060	Runnins @ River Road on RI-MA Border	RIVER	surface		21.23	8.36	538.00	5.10	*532.90*	32.50	<5.00	5310.0	839	*571*	2		
08/18/10	1:15 PM	1008-EMDASPST-0065	Taunton River @ Berkley Bridge	RIVER	surface		25.63	8.82	640.00	19.00	*621.00*	<7.00	17.20	1250.0	990	*	8		
08/18/10	8:40 AM	1008-EMDASPST-0058	Ten Mile @ Outlet of Omega Pond	RIVER	surface		24.69	7.63	136.00	10.70	*125.30*	9.86	<5.00	2000.0	577	*146*	12		
08/18/10	8:40 AM	1008-EMDASPST-0059	Ten Mile @ Outlet of Omega Pond	RIVER	surface		24.69	7.63	138.00	10.30	*127.70*	9.99	<5.00	2020.0	527	*148*	18		
08/18/10	10:30 AM	1008-EMDASPST-0062	Warren Reservoir/Kickemuit River	RIVER	surface		23.43	8.80	<6.0	1.95	*	120.00	6.83	2580.0	714	*	20		
08/18/10	11:50 AM	1008-EMDASPST-0052	Woonasquatucket @ Manton Ave	RIVER	surface		23.81	7.34	409.00	4.28	*404.72*	30.90	<5.00	708.0	678	*440*	2		
08/18/10	12:15 AM	1008-EMDASPST-0053	Woonasquatucket @ Valley St	RIVER	surface		22.95	7.61	674.00	4.25	*669.75*	20.20	<5.00	1660.0	895	*694*	<2.0		
08/18/10	2:50 PM	1008-EMDASPST-0056	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.0	<5.00	<20	<100	*			
08/18/10	11:15 AM	1008-EMDASPST-0057	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
09/01/10	9:30 AM	1008-EMDASPST-0087	Phillipsdale Landing	BAY	0.5	23.02	24.45	7.67	32.30	4.05	*28.25*	136.00	101.00	723.0	327	*168*	414		
09/01/10	9:08 AM	1008-EMDASPST-0083	India Point Park	BAY	0.6	27.31	23.26		20.30	1.88	*18.42*	<7.00	45.90	704.0	188	*	50		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/01/10	8:04 AM	1008-EMDASPST-0073	Conimicut Point	BAY	0.7	27.90	24.19		20.40	<1.5	*	<7.00	<5.0	88.0	200	*	50		
09/01/10	9:54 AM	1008-EMDASPST-0077	Edgewood Yacht Club	BAY	0.7	25.98	22.89		7.39	<1.5	*	106.00	12.60	296.0	312	*113*	84		
09/01/10	9:54 AM	1008-EMDASPST-0079	Edgewood Yacht Club	BAY	0.7	25.98	22.89		7.40	<1.5	*	112.00	14.10	316.0	310	*119*	58		
09/01/10	8:30 AM	1008-EMDASPST-0075	Bullocks Reach Buoy	BAY	0.7	28.06	24.02		7.30	<1.5	*	<7.0	<5.00	47.7	234	*	64		
09/01/10	9:32 AM	1008-EMDASPST-0081	Pomham Rocks	BAY	0.7	28.20	23.57		<6.0	<1.5	*	<7.00	5.79	174.0	150	*	54		
09/01/10	9:30 AM	1008-EMDASPST-0088	Phillipsdale Landing	BAY	2.2	27.37	23.25	7.45	9.26	<1.5	*	19.70	70.40	185.0	282	*29*	392		
09/01/10	8:37 AM	1008-EMDASPST-0076	Bullocks Reach Buoy	BAY	7.3	30.48	21.64		14.70	<1.5	*	46.90	37.80	1160.0	208	*62*	68		
09/01/10	9:15 AM	1008-EMDASPST-0084	India Point Park	BAY	7.4	26.89	21.28		45.50	1.87	*43.63*	218.00	83.00	1250.0	396	*264*	62		
09/01/10	10:10 AM	1008-EMDASPST-0078	Edgewood Yacht Club	BAY	7.9	24.68	23.21		32.40	5.51	*26.89*	106.00	65.60	1380.0	308	*138*	82		
09/01/10	10:10 AM	1008-EMDASPST-0080	Edgewood Yacht Club	BAY	7.9	24.68	23.21		43.80	5.64	*38.16*	104.00	61.50	1410.0	312	*148*	66		
09/01/10	9:35 AM	1008-EMDASPST-0082	Pomham Rocks	BAY	9.0	27.24	20.19		28.80	<1.5	*	148.00	54.70	879.0	1100	*177*	72		
09/01/10	8:16 AM	1008-EMDASPST-0074	Conimicut Point	BAY	9.8	26.98	19.89		8.17	<1.5	*	21.30	34.10	955.0	168	*29*	52		
09/01/10	10:20 AM	1008-EMDASPST-0085	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
09/01/10	9:30 AM	1008-EMDASPST-0117	Phillipsdale Landing	BAY CHL	0.5	23.02												59.114	29.253
09/01/10	9:08 AM	1008-EMDASPST-0114	India Point Park	BAY CHL	0.6	27.31												34.443	5.786
09/01/10	8:04 AM	1008-EMDASPST-0111	Conimicut Point	BAY CHL	0.7	27.89												24.004	5.397
09/01/10	9:54 AM	1008-EMDASPST-0112	Edgewood Yacht Club	BAY CHL	0.7	25.98												44.401	6.65

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/01/10	8:30 AM	1008-EMDASPST-0115	Bullocks Reach Buoy	BAY CHL	0.7	28.06												14.64	5.714
09/01/10	9:35 AM	1008-EMDASPST-0113	Pomham Rocks	BAY CHL	0.7	28.20												45.573	6.53
09/01/10	9:30 AM	1008-EMDASPST-0118	Phillipsdale Landing	BAY CHL	2.2	27.27												36.45	15.046
09/01/10	8:40 AM	1008-EMDASPST-0116	Bullocks Reach Buoy	BAY CHL	2.5	30.48												20.538	5.915
09/01/10	11:01 AM	1008-EMDASPST-0090	Blackstone River at Slater Dam	RIVER	surface		24.65	8.70	1040.00	13.30	*1026.70*	40.90	57.50	1670.0	1190	*1081*	18	1075	
09/01/10	11:01 AM	1008-EMDASPST-0091	Blackstone River at Slater Dam	RIVER	surface		24.64	8.70	1030.00	13.20	*1016.80*	39.70	57.30	1600.0	1230	*1070*	18	1210	
09/01/10	12:48 PM	1008-EMDASPST-0095	Moshassuck River @ Higginson Ave	RIVER	surface		22.95	8.32	226.00	4.36	*221.64*	33.30	9.59	2910.0	432	*259*	170		
09/01/10	1:25 PM	1008-EMDASPST-0096	Moshassuck River @ Mill St	RIVER	surface		22.64	7.70	620.00	19.30	*600.70*	74.20	<5.00	4400.0	928	*694*	20		
09/01/10	2:58 PM	1008-EMDASPST-0092	Pawtuxet @ Terminal Falls	RIVER	surface		24.79	7.14	1810.00	15.70	*1794.30*	91.90	142.00	2060.0	1970	*1902*	24		
09/01/10	11:07 AM	1008-EMDASPST-0089	Ten Mile @ Outlet of Omega Pond	RIVER	surface		25.37	9.94	821.00	45.30	*775.70*	<7	<5.0	2290.0	1140	*	58		
09/01/10	1:51 PM	1008-EMDASPST-0093	Woonasquatucket @ Manton Ave	RIVER	surface		24.68	7.74	556.00	3.18	*552.82*	9.05	<5.00	1460.0	931	*565*	114		
09/01/10	2:12 PM	1008-EMDASPST-0094	Woonasquatucket @ Valley St	RIVER	surface		25.02	7.73	688.00	3.35	*684.65*	7.00	<5.00	1340.0	850	*695*	226		
09/01/10	1:13 PM	1008-EMDASPST-0086	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.0	<20	<100	*			
09/14/10	10:30 AM	1008-EMDASPST-0109	Bullocks Reach Buoy	BAY CHL	surface CHL													11.702	2.693
09/14/10	10:45 AM	1008-EMDASPST-0110	Bullocks Reach Buoy	BAY CHL	surface CHL													13.493	3.357
09/15/10	1:05 PM	1009-EMDASPST-0002	Phillipsdale Landing	BAY	0.5				535.00	14.20	*520.80*	<7.00	130.00	1120.0	815	*	142		
09/15/10	1:05 PM	1009-EMDASPST-0003	Phillipsdale Landing	BAY	0.5				576.00	16.30	*559.70*	<7.00	134.00	1100.0	839	*	138		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/15/10	8:56 AM	1009-EMDASPST-0005	Conimicut Point	BAY	0.8	27.32	20.01	8.04	110.00	18.60	*91.40*	134.00	63.90	1530.0	647	*244*	218		
09/15/10	10:25 AM	1009-EMDASPST-0011	Edgewood Yacht Club	BAY	0.8	27.32	20.01	8.04	151.00	24.20	*126.80*	154.00	64.20	1620.0	524	*305*	220		
09/15/10	10:25 AM	1009-EMDASPST-0013	Edgewood Yacht Club	BAY	0.8	26.85	20.36	7.96	135.00	25.70	*109.30*	155.00	66.30	1620.0	567	*290*	222		
09/15/10	9:47 AM	1009-EMDASPST-0017	India Point Park	BAY	0.8	24.87	20.32	8.03	167.00	18.10	*148.90*	102.00	93.30	1330.0	560	*269*	214		
09/15/10	10:06 AM	1009-EMDASPST-0015	Pomham Rocks	BAY	0.8	26.25	20.29	7.96	126.00	23.20	*102.80*	190.00	90.80	1540.0	612	*316*	226		
09/15/10	9:14 AM	1009-EMDASPST-0019	Bullocks Reach Buoy	BAY	0.8	27.26	20.37	8.00	120.00	23.00	*97.00*	156.00	69.50	1570.0	566	*276*	244		
09/15/10	10:15 AM	1009-EMDASPST-0004	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
09/15/10	8:56 AM	1009-EMDASPST-0030	Conimicut Point	BAY CHL	surface CHL													17.817	2.772
09/15/10	10:25 AM	1009-EMDASPST-0031	Edgewood Yacht Club	BAY CHL	surface CHL													14.734	2.03
09/15/10	9:47 AM	1009-EMDASPST-0033	India Point Park	BAY CHL	surface CHL													21.417	2.379
09/15/10	1:05 PM	1009-EMDASPST-0036	Phillipsdale Landing	BAY CHL	surface CHL													57.481	2.157
09/15/10	1:05 PM	1009-EMDASPST-0037	Phillipsdale Landing	BAY CHL	surface CHL													59.662	7.52
09/15/10	10:06 AM	1009-EMDASPST-0032	Pomham Rocks	BAY CHL	surface CHL													14.235	2.013
09/15/10	9:14 AM	1009-EMDASPST-0034	Bullocks Reach Buoy	BAY CHL	surface CHL													17.783	2.702
09/15/10	10:25 AM	1009-EMDASPST-0059	Edgewood Yacht Club	BAY CHL	surface CHL													15.099	2.521
09/15/10	9:20 AM	1009-EMDASPST-0050	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface		18.75	7.91	1460.00	5.50	*1454.50*	9.14	39.10	1290.0	1770	*1469*	4		
09/15/10	8:45 AM	1009-EMDASPST-0051	Blackstone River at Slater Dam	RIVER	surface		18.30	7.73	1190.00	5.57	*1184.43*	29.60	35.90	1430.0	1510	*1220*	10		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/15/10	10:00 AM	1009-EMDASPST-0049	Blackstone River at Stateline	RIVER	surface		17.23	7.69	2060.00	8.41	*2051.59*	<7	105.00	1340.0	2560	*	12		
09/15/10	10:00 AM	1009-EMDASPST-0058	Blackstone River at Stateline	RIVER	surface		17.23	7.69	1980.00	8.05	*1971.95*	<7	104.00	1390.0	2470	*	10		
09/15/10	12:30 PM	1009-EMDASPST-0045	Coles River @ Milford Rd, Swansea	RIVER	surface		18.27	7.05	147.00	3.62	*143.38*	31.60	13.60	373.0	622	*179*	2		
09/15/10	1:10 PM	1009-EMDASPST-0046	Lee's River @ Rt. 6, Swansea	RIVER	surface		20.37	7.76	46.90	3.09	*43.81*	<7.00	24.40	1110.0	358	*	238		
09/15/10	1:20 PM	1009-EMDASPST-0056	Moshassuck River @ Higginson Ave	RIVER	surface		16.96	7.60	210.00	2.76	*207.24*	26.40	8.76	2870.0	426	*236*	4		
09/15/10	3:00 PM	1009-EMDASPST-0057	Moshassuck River @ Mill St	RIVER	surface		16.89	7.46	636.00	16.40	*619.60*	85.80	6.06	4700.0	977	*722*	10		
09/15/10	1:40 PM	1009-EMDASPST-0043	Palmer River @ Rte. 6 Swansea	RIVER	surface		19.67	7.71	<6.0	<1.5	*	<7.00	<5.00	1210.0	383	*	192		
09/15/10	3:30 PM	1009-EMDASPST-0053	Pawtuxet @ Terminal Falls	RIVER	surface		19.26	6.75	1500.00	16.70	*1483.30*	53.30	64.40	1600.0	1990	*1553*	32		
09/15/10	11:20 AM	1009-EMDASPST-0042	Runnins @ River Road on RI-MA Border	RIVER	surface		19.12	6.62	542.00	4.65	*537.35*	16.80	<5.00	1950.0	801	*559*	16		
09/15/10	10:05 AM	1009-EMDASPST-0047	Taunton River @ Berkley Bridge	RIVER	surface				1120.00	14.10	*1105.90*	33.20	95.60	2780.0	1490	*1153*	18		
09/15/10	2:19 PM	1009-EMDASPST-0039	Ten Mile @ Outlet of Omega Pond	RIVER	surface		19.79	9.57	588.00	30.50	*557.50*	<7	<5.00	2430.0	1090	*	22		
09/15/10	2:19 PM	1009-EMDASPST-0040	Ten Mile @ Outlet of Omega Pond	RIVER	surface		19.79	9.57	559.00	28.10	*530.90*	<7	<5.00	2380.0	1030	*	18		
09/15/10	12:00 PM	1009-EMDASPST-0044	Warren Reservoir/Kickemuit River	RIVER	surface		17.85	7.73	<6.0	<1.5	*	39.70	10.70	410.0	689	*	6		
09/15/10	2:00 PM	1009-EMDASPST-0054	Woonasquatucket @ Manton Ave	RIVER	surface		18.97	7.48	696.00	4.45	*691.55*	26.90	<5.00	966.0	945	*723*	10		
09/15/10	2:30 PM	1009-EMDASPST-0055	Woonasquatucket @ Valley St	RIVER	surface		17.73	7.51	780.00	2.89	*777.11*	9.15	<5.00	1570.0	941	*789*	8		
09/15/10	12:40 PM	1009-EMDASPST-0038	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
09/15/10	3:35 PM	1009-EMDASPST-0048	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/29/10	10:04 AM	1009-EMDASPST-0020	Bullocks Reach Buoy	BAY	0.5	27.28	20.75	8.19	64.90	11.20	*53.70*	164.00	55.60	1290.0	516	*229*	286		
09/29/10	9:30 AM	1009-EMDASPST-0060	Phillipsdale Landing	BAY	0.6	19.00	21.00		777.00	22.30	*754.70*	226.00	211.00	1580.0	1410	*1003*	252		
09/29/10	1:00 PM	1009-EMDASPST-0012	Edgewood Yacht Club	BAY	0.6	27.99	21.21	8.14	110.00	18.80	*91.20*	196.00	69.30	1490.0	599	*306*	342		
09/29/10	1:34 PM	1009-EMDASPST-0016	Pomham Rocks	BAY	0.6	27.99	21.29	8.12	124.00	17.00	*107.00*	217.00	70.80	1430.0	798	*341*	314		
09/29/10	2:07 PM	1009-EMDASPST-0018	India Point Park	BAY	0.6	26.48	23.32	8.00	168.00	27.20	*140.80*	278.00	109.00	1420.0	847	*446*	250		
09/29/10	1:00 PM	1009-EMDASPST-0014	Edgewood Yacht Club	BAY	0.7	27.99	21.21	8.14	108.00	18.90	*89.10*	197.00	69.40	1490.0	589	*305*	302		
09/29/10	10:44 AM	1009-EMDASPST-0006	Conimicut Point	BAY	0.7	29.01	20.67	8.19	55.20	8.81	*46.39*	121.00	41.50	1240.0	450	*176*	354		
09/29/10	9:30 AM	1009-EMDASPST-0061	Phillipsdale Landing	BAY	2.5	24.84	21.00		265.00	21.90	*243.10*	298.00	170.00	1470.0	990	*563*	360		
09/29/10	1:42 PM	1009-EMDASPST-0071	Pomham Rocks	BAY	3.6	28.06	20.84		125.00	16.60	*108.40*	212.00	70.90	1150.0	642	*337*	294		
09/29/10	1:05 PM	1009-EMDASPST-0068	Edgewood Yacht Club	BAY	5.3	28.41	20.60		115.00	22.30	*92.70*	234.00	76.40	1620.0	660	*349*	310		
09/29/10	1:05 PM	1009-EMDASPST-0067	Edgewood Yacht Club	BAY	5.3	28.41	20.60		122.00	23.00	*99.00*	235.00	79.30	69.0	652	*357*	380		
09/29/10	2:12 PM	1009-EMDASPST-0073	India Point Park	BAY	7.1	27.95	20.72		117.00	29.50	*87.50*	297.00	97.20	1410.0	788	*414*	320		
09/29/10	10:48 AM	1009-EMDASPST-0063	Conimicut Point	BAY	9.4	30.12	19.91		26.50	3.53	*22.97*	105.00	39.30	1190.0	389	*132*	456		
09/29/10	10:20 AM	1009-EMDASPST-0065	Bullocks Reach Buoy	BAY	7.6				36.40	5.48	*30.92*	116.00	38.50	1220.0	418	*152*	468		
09/29/10	2:20 PM	1009-EMDASPST-0062	Nutrient Blank	BAY					22.40	<1.5	*	<7.00	<5.00	<20	<100	*			
09/29/10	10:04 AM	1009-EMDASPST-0086	Bullocks Reach Buoy	BAY CHL	0.50	27.28												6.236	2.034
09/29/10	9:30 AM	1009-EMDASPST-0091	Phillipsdale Landing	BAY CHL	0.56	19.00												39.795	5.054

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/29/10	1:34 PM	1009-EMDASPST-0089	Pomham Rocks	BAY CHL	0.60	27.99												7.897	1.634
09/29/10	1:00 PM	1009-EMDASPST-0087	Edgewood Yacht Club	BAY CHL	0.66	27.99												10.828	2.013
09/29/10	1:00 PM	1009-EMDASPST-0088	Edgewood Yacht Club	BAY CHL	0.66	27.99												10.709	2.428
09/29/10	10:44 AM	1009-EMDASPST-0085	Conimicut Point	BAY CHL	0.68	29.01												11.357	2.304
09/29/10	10:55 AM	1009-EMDASPST-0078	Blackstone River at Slater Dam	RIVER	surface		20.85	8.02	1620.00	10.30	*1609.70*	44.00	43.30	1420.0	2240	*1664*	86		
09/29/10	10:55 AM	1009-EMDASPST-0079	Blackstone River at Slater Dam	RIVER	surface		20.85	8.02	1660.00	10.20	*1649.80*	43.60	42.70	1570.0	2240	*1704*	72		
09/29/10	2:35 PM	1009-EMDASPST-0083	Moshassuck River @ Higginson Ave	RIVER	surface		20.58	7.35	182.00	5.28	*176.72*	22.00	7.92	2200.0	511	*204*	26		
09/29/10	3:10 PM	1009-EMDASPST-0084	Moshassuck River @ Mill St	RIVER	surface		20.42	7.24	429.00	13.80	*415.20*	74.20	9.20	3350.0	779	*503*	52		
09/29/10	12:45 PM	1009-EMDASPST-0080	Pawtuxet @ Terminal Falls	RIVER	surface		21.05	7.52	109.00	22.20	*86.80*	256.00	87.10	1560.0	668	*365*	302		
09/29/10	8:45 AM	1009-EMDASPST-0077	Ten Mile @ Outlet of Omega Pond	RIVER	surface		20.82	7.77	1350.00	61.50	*1288.50*	250.00	8.59	1730.0	2340	*1600*	128		
09/29/10	1:25 PM	1009-EMDASPST-0081	Woonasquatucket @ Manton Ave	RIVER	surface		21.41	7.51	824.00	8.20	*815.80*	39.70	<5.00	1080.0	1360	*864*	62		
09/29/10	2:00 PM	1009-EMDASPST-0082	Woonasquatucket @ Valley St	RIVER	surface		21.10	7.60	821.00	5.82	*815.18*	16.30	<5.00	1370.0	1280	*837*	92		
09/29/10	3:20 PM	1009-EMDASPST-0021	Nutrient Blank						<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
10/13/10	9:55 AM	1010-EMDASPST-0020	Conimicut Point	BAY	0.5	27.91	16.45	7.93	181.00	19.20	*161.80*	212.00	66.90	1350.0	610	*393*	232		
10/13/10	12:50 PM	1010-EMDASPST-0023	Edgewood Yacht Club	BAY	0.5	26.88	17.18	7.86	249.00	33.40	*215.60*	368.00	88.30	1480.0	904	*617*	198		
10/13/10	12:50 PM	1010-EMDASPST-0024	Edgewood Yacht Club	BAY	0.5	26.88	17.18	7.86	242.00	32.60	*209.40*	370.00	87.40	1470.0	911	*612*	202		
10/13/10	1:45 PM	1010-EMDASPST-0026	India Point Park	BAY	0.5	26.30	17.85	7.89	214.00	16.40	*197.60*	156.00	70.90	1420.0	716	*370*	210		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/13/10	1:15 PM	1010-EMDASPST-0025	Pomham Rocks	BAY	0.5	27.40	17.12	7.89	197.00	19.00	*178.00*	203.00	72.60	1390.0	658	*400*	220		
10/13/10	10:20 AM	1010-EMDASPST-0021	Bullocks Reach Buoy	BAY	0.5	28.24	16.38	7.92	167.00	18.60	*148.40*	205.00	65.30	1350.0	614	*372*	270		
10/13/10	10:20 AM	1010-EMDASPST-0022	Bullocks Reach Buoy	BAY	0.5	28.24	16.38	7.92	183.00	18.80	*164.20*	203.00	65.40	1340.0	728	*386*	232		
10/13/10	1:00 PM	1010-EMDASPST-0027	Phillipsdale Landing	BAY	0.5	17.59	16.25	7.07	770.00	16.70	*753.30*	72.10	170.00	1910.0	1100	*842*	228		
10/13/10	8:27 AM	1010-EMDASPST-0011	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
10/13/10	9:55 AM	1010-EMDASPST-0028	Conimicut Point	BAY CHL	0.5	27.91												4.229	1.198
10/13/10	12:50 PM	1010-EMDASPST-0030	Edgewood Yacht Club	BAY CHL	0.5	26.88												0.887	0.728
10/13/10	12:50 PM	1010-EMDASPST-0031	Edgewood Yacht Club	BAY CHL	0.5	26.88												1.091	0.772
10/13/10	1:45 PM	1010-EMDASPST-0033	India Point Park	BAY CHL	0.5	26.30												18.845	1.161
10/13/10	1:15 PM	1010-EMDASPST-0032	Pomham Rocks	BAY CHL	0.5	27.48												2.915	1.187
10/13/10	10:20 AM	1010-EMDASPST-0029	Bullocks Reach Buoy	BAY CHL	0.5	28.24												2.367	1.036
10/13/10	1:00 PM	1010-EMDASPST-0034	Phillipsdale Landing	BAY CHL	0.5	17.59												2.265	1.587
10/13/10	10:05 AM	1010-EMDASPST-0002	Blackstone River at Slater Dam	RIVER	surface		13.95	7.76	820.00	8.86	*811.14*	51.90	23.40	2550.0	1090	*872*	10		
10/13/10	10:05 AM	1010-EMDASPST-0003	Blackstone River at Slater Dam	RIVER	surface		13.95	7.76	837.00	8.84	*828.16*	52.00	24.00	2430.0	1120	*889*	8		
10/13/10	8:50 AM	1010-EMDASPST-0001	Blackstone River at Stateline	RIVER	surface		13.37	7.91	1190.00	19.50	*1170.50*	43.30	29.80	2810.0	1480	*1233*	10		
10/13/10	11:15 AM	1010-EMDASPST-0017	Coles River @ Milford Rd, Swansea	RIVER	surface		14.24	8.59	70.40	2.86	*67.54*	26.60	10.30	903.0	448	*97*	4		
10/13/10	10:55 AM	1010-EMDASPST-0018	Lee's River @ Rt. 6, Swansea	RIVER	surface		15.39	7.67	76.60	1.88	*74.72*	12.10	32.90	884.0	319	*89*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/13/10	9:40 AM	1010-EMDASPST-0007	Moshassuck River @ Higginson Ave	RIVER	surface		13.90	7.95	139.00	3.60	*135.40*	24.80	8.28	2800.0	368	*164*	10		
10/13/10	3:10 PM	1010-EMDASPST-0008	Moshassuck River @ Mill St	RIVER	surface		13.76	7.66	514.00	9.52	*504.48*	87.30	24.20	4420.0	875	*601*	10		
10/13/10	12:15 PM	1010-EMDASPST-0015	Palmer River @ Rte. 6 Swansea	RIVER	surface		15.35	7.04	99.40	8.06	*91.34*	61.70	27.10	1520.0	459	*161*	128		
10/13/10	10:40 AM	1010-EMDASPST-0004	Pawtuxet @ Terminal Falls	RIVER	surface		15.31	7.33	1200.00	49.90	*1150.10*	121.00	141.00	3240.0	1740	*1321*	14		
10/13/10	12:35 PM	1010-EMDASPST-0014	Runnins @ River Road on RI-MA Border	RIVER	surface		11.99	7.79	495.00	3.37	*491.63*	17.50	<5.00	4980.0	781	*513*	12		
10/13/10	10:00 AM	1010-EMDASPST-0019	Taunton River @ Berkley Bridge	RIVER	surface		13.80	7.73	645.00	8.04	*636.96*	75.80	45.00	3420.0	1010	*721*	4		
10/13/10	1:15 PM	1010-EMDASPST-0012	Ten Mile @ Outlet of Omega Pond	RIVER	surface		15.41	7.62	2070.00	26.00	*2044.00*	58.60	10.30	1050.0	2460	*2129*	30		
10/13/10	1:15 PM	1010-EMDASPST-0013	Ten Mile @ Outlet of Omega Pond	RIVER	surface		15.41	7.62	1990.00	23.50	*1966.50*	59.10	9.64	1030.0	2530	*2049*	30		
10/13/10	11:45 AM	1010-EMDASPST-0016	Warren Reservoir/Kickemuit River	RIVER	surface		14.39	7.66	<6.0	2.37	*	140.00	11.20	109.0	691	*	16		
10/13/10	1:56 PM	1010-EMDASPST-0005	Woonasquatucket @ Manton Ave	RIVER	surface		15.37	8.58	397.00	3.98	*393.02*	41.70	5.79	1740.0	627	*439*	12		
10/13/10	2:40 PM	1010-EMDASPST-0006	Woonasquatucket @ Valley St	RIVER	surface		14.75	7.92	524.00	3.32	*520.68*	19.80	<5.00	1940.0	730	*544*	8		
10/13/10	8:55 AM	1010-EMDASPST-0009	Nutrient Blank	RIVER					<6	<1.5	*	<7.00	<5.00	<20	<100	*			
10/13/10	11:55 AM	1010-EMDASPST-0010	Nutrient Blank	RIVER					16.60	<1.5	*	<7.00	<5.00	<20	<100	*			
10/27/10	1:00 PM	1010-EMDASPST-0049	Phillipsdale Landing	BAY	0.5		16.50	7.57	998.00	21.40	*976.60*	150.00	132.00	2000.0	1670	*1148*	20		
10/27/10	2:01 PM	1010-EMDASPST-0041	Edgewood Yacht Club	BAY	0.6	25.46	16.12		286.00	22.40	*263.60*	317.00	72.60	1300.0	729	*603*	168		
10/27/10	2:11 PM	1010-EMDASPST-0043	Edgewood Yacht Club	BAY	0.6	25.46	16.12		284.00	20.60	*263.40*	320.00	73.00	1300.0	725	*604*	162		
10/27/10	11:10 AM	1010-EMDASPST-0039	Bullocks Reach Buoy	BAY	0.6	28.41	14.82		156.00	12.50	*143.50*	140.00	36.10	912.0	408	*296*	176		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/27/10	1:25 PM	1010-EMDASPST-0047	India Point Park	BAY	0.7	21.70	16.74		467.00	20.90	*446.10*	278.00	95.00	1590.0	966	*745*	226		
10/27/10	11:39 AM	1010-EMDASPST-0045	Pomham Rocks	BAY	0.7	25.86	15.88		265.00	19.20	*245.80*	333.00	76.80	1280.0	834	*598*	222		
10/27/10	1:02 PM	1010-EMDASPST-0050	Phillipsdale Landing	BAY	1.8		16.00	7.54	531.00	23.30	*507.70*	254.00	103.00	1670.0	1030	*785*	140		
10/27/10	11:47 AM	1010-EMDASPST-0046	Pomham Rocks	BAY	3.7	27.01	15.16		274.00	19.50	*254.50*	329.00	76.90	1290.0	810	*603*	214		
10/27/10	2:10 PM	1010-EMDASPST-0042	Edgewood Yacht Club	BAY	5.1	28.81	15.04		251.00	20.30	*230.70*	308.00	60.00	1320.0	744	*559*	168		
10/27/10	2:10 PM	1010-EMDASPST-0044	Edgewood Yacht Club	BAY	5.1	28.81	15.04		251.00	20.50	*230.50*	301.00	66.60	1320.0	770	*552*	182		
10/27/10	1:30 PM	1010-EMDASPST-0048	India Point Park	BAY	5.5	23.46	15.89		197.00	14.90	*182.10*	257.00	70.20	1250.0	645	*454*	148		
10/27/10	11:16 AM	1010-EMDASPST-0040	Bullocks Reach Buoy	BAY	6.8	28.73	14.78		141.00	11.60	*129.40*	128.00	35.70	880.0	418	*269*	190		
10/27/10	10:01 AM	1010-EMDASPST-0036	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
10/27/10	1:00 PM	1010-EMDASPST-0066	Phillipsdale Landing	BAY CHL	0.5													19.654	3.664
10/27/10	2:01 PM	1010-EMDASPST-0062	Edgewood Yacht Club	BAY CHL	0.6	25.46												3.892	1.343
10/27/10	2:01 PM	1010-EMDASPST-0063	Edgewood Yacht Club	BAY CHL	0.6	25.46												4.294	1.408
10/27/10	11:10 AM	1010-EMDASPST-0061	Bullocks Reach Buoy	BAY CHL	0.6	28.41												4.663	1.08
10/27/10	1:25 PM	1010-EMDASPST-0065	India Point Park	BAY CHL	0.7	21.70												5.615	0.551
10/27/10	11:39 AM	1010-EMDASPST-0064	Pomham Rocks	BAY CHL	3.7	25.86												6.772	1.396
10/27/10	10:50 AM	1010-EMDASPST-0052	Blackstone River at Slater Dam	RIVER	surface		13.99	7.31	987.00	12.60	*974.40*	113.00	37.00	2020.0	1330	*1100*	8		
10/27/10	10:50 AM	1010-EMDASPST-0053	Blackstone River at Slater Dam	RIVER	surface		13.99	7.31	957.00	13.00	*944.00*	110.00	37.40	2060.0	1350	*1067*	16		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/27/10	10:20 AM	1010-EMDASPST-0057	Moshassuck River @ Higginson Ave	RIVER	surface		16.39	7.08	243.00	4.31	*238.69*	31.70	11.60	3000.0	518	*275*	<2.0		
10/27/10	9:20 AM	1010-EMDASPST-0058	Moshassuck River @ Mill St	RIVER	surface		16.29	7.17	477.00	11.70	*465.30*	118.00	12.40	3220.0	968	*595*	22		
10/27/10	2:45 PM	1010-EMDASPST-0054	Pawtuxet @ Terminal Falls	RIVER	surface		15.79	7.03	1070.00	42.60	*1027.40*	280.00	41.70	2540.0	1950	*1350*	4		
10/27/10	1:45 PM	1010-EMDASPST-0051	Ten Mile @ Outlet of Omega Pond	RIVER	surface		14.80	7.40	2140.00	18.80	*2121.20*	123.00	24.20	2760.0	2010	*2263*	4		
10/27/10	8:25 AM	1010-EMDASPST-0055	Woonasquatucket @ Manton Ave	RIVER	surface		15.90	7.17	406.00	2.55	*403.45*	19.10	5.12	1230.0	663	*425*	2		
10/27/10	8:50 AM	1010-EMDASPST-0056	Woonasquatucket @ Valley St	RIVER	surface		15.80	7.44	462.00	2.71	*459.29*	7.89	5.21	1460.0	795	*470*	2		
10/27/10	2:10 PM	1010-EMDASPST-0059	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
11/10/10	8:40 AM	1011-EMDASPST-0012	Phillipsdale Landing	BAY	surface				539.00	24.30	*514.70*	185.00	56.80	1520.0	916	*724*	14		
11/10/10	2:05 PM	1011-EMDASPST-0005	Nutrient Blank	BAY					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
11/10/10	8:40 AM	1011-EMDASPST-0026	Phillipsdale Landing	BAY CHL	0.5	16.29												2.082	2.11
11/10/10	9:30 AM	1011-EMDASPST-0028	Blackstone River at Slater Dam	RIVER	surface		8.41	8.00	713.00	39.80	*673.20*	94.40	22.50	2450.0	1060	*807*	10		
11/10/10	8:40 AM	1011-EMDASPST-0013	Blackstone River at Stateline	RIVER	surface		8.58	7.96	734.00	74.40	*659.60*	220.00	20.50	2120.0	1210	*954*	8		
11/10/10	11:00 AM	1011-EMDASPST-0035	Coles River @ Milford Rd, Swansea	RIVER	surface		8.02	7.83	46.30	2.01	*44.29*	17.20	9.28	5310.0	486	*64*	<2		
11/10/10	1:10 PM	1011-EMDASPST-0036	Lee's River @ Rt. 6, Swansea	RIVER	surface		9.10	7.60	131.00	<1.5	*	56.80	23.90	1370.0	398	*188*	20		
11/10/10	9:40 AM	1011-EMDASPST-0030	Moshassuck River @ Higginson Ave	RIVER	surface		8.36	7.99	128.00	3.13	*124.87*	9.70	6.13	3500.0	338	*138*	8		
11/10/10	10:05 AM	1011-EMDASPST-0038	Moshassuck River @ Mill St	RIVER	surface		9.50	8.10	296.00	3.81	*292.19*	38.90	6.08	3500.0	524	*335*	6		
11/10/10	10:05 AM	1011-EMDASPST-0031	Moshassuck River @ Mill St	RIVER	surface		9.50	8.10	288.00	3.69	*284.31*	37.40	6.02	3400.0	545	*325*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
11/10/10	10:05 AM	1011-EMDASPST-0033	Palmer River @ Rte. 6 Swansea	RIVER	surface		8.32	7.14	148.00	4.62	*143.38*	54.00	16.80	3420.0	513	*202*	20		
11/10/10	1:30 PM	1011-EMDASPST-0014	Pawtuxet @ Terminal Falls	RIVER	surface		8.36	7.99	1100.00	18.60	*1081.40*	285.00	26.40	3130.0	1680	*1385*	8		
11/10/10	9:45 AM	1011-EMDASPST-0032	Runnins @ River Road on RI-MA Border	RIVER	surface		8.68	7.97	287.00	2.06	*284.94*	<7.00	10.70	4830.0	*594*	*	2		
11/10/10	1:50 PM	1011-EMDASPST-0019	Taunton River @ Berkley Bridge	RIVER	surface		8.84	7.60	485.00	6.60	*478.40*	214.00	44.80	3450.0	1020	*699*	12		
11/10/10	8:25 AM	1011-EMDASPST-0017	Ten Mile @ Outlet of Omega Pond	RIVER	surface		8.06	7.64	2650.00	10.70	*2639.30*	46.90	12.70	3120.0	3020	*2697*	10		
11/10/10	8:25 AM	1011-EMDASPST-0018	Ten Mile @ Outlet of Omega Pond	RIVER	surface		8.06	7.64	2580.00	9.83	*2570.17*	49.20	12.20	3040.0	3100	*2629*	8		
11/10/10	10:34 AM	1011-EMDASPST-0034	Warren Reservoir/Kickemuit River	RIVER	surface		8.09	7.92	231.00	8.66	*222.34*	74.60	9.07	3930.0	707	*306*	4		
11/10/10	12:55 PM	1011-EMDASPST-0029	Woonasquatucket @ Manton Ave	RIVER	surface		7.98	7.99	561.00	2.46	*558.54*	<7.00	<5.00	2080.0	782	*	6		
11/10/10	12:40 PM	1011-EMDASPST-0015	Woonasquatucket @ Valley St	RIVER	surface		8.28	8.10	509.00	2.55	*506.45*	20.00	5.24	1920.0	742	*529*	<2		
11/10/10	10:15 AM	1011-EMDASPST-0037	Nutrient Blank	RIVER					<6.	<1.5	*	<7.00	<5.00	<20	<100	*			
12/01/10	9:10 AM	1011-EMDASPST-0090	Blackstone River at Slater Dam	RIVER	surface		5.56	8.17	1120.00	38.00	*1082.00*	66.70	18.60	2590.0	1410	*1187*	4		
12/01/10	9:10 AM	1011-EMDASPST-0091	Blackstone River at Slater Dam	RIVER	surface		5.56	8.17	1100.00	38.40	*1061.60*	67.40	16.80	2520.0	1420	*1167*	4		
12/01/10	9:53 AM	1011-EMDASPST-0089	Blackstone River at Stateline	RIVER	surface		5.31	7.94	1290.00	48.90	*1241.10*	93.80	15.20	2470.0	1700	*1384*	6		
12/01/10	1:23 PM	1011-EMDASPST-0093	Moshassuck River @ Higginson Ave	RIVER	surface		6.88	7.60	334.00	5.49	*328.51*	25.80	6.66	3520.0	514	*360*	4		
12/01/10	9:40 AM	1011-EMDASPST-0097	Moshassuck River @ Mill St	RIVER	surface		7.67	7.50	484.00	5.50	*478.50*	77.60	<5.00	4330.0	688	*562*	4		
12/01/10	9:40 AM	1011-EMDASPST-0098	Moshassuck River @ Mill St	RIVER	surface		7.67	7.50	486.00	5.83	*480.17*	77.50	<5.00	4210.0	682	*564*	4		
12/01/10	9:15 AM	1011-EMDASPST-0081	Pawtuxet @ Terminal Falls	RIVER	surface		7.68	7.78	1820.00	32.60	*1787.40*	328.00	33.00	3740.0	2430	*2148*	<2		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/01/10	8:55 AM	1011-EMDASPST-0095	Taunton River @ Berkley Bridge	RIVER	surface		4.94	7.41	881.00	10.10	*870.90*	495.00	58.20	3650.0	1240	*1376*	14		
12/01/10	8:35 AM	1011-EMDASPST-0094	Ten Mile @ Outlet of Omega Pond	RIVER	surface		5.01	8.26	2380.00	14.00	*2366.00*	111.00	29.50	3500.0	2760	*2491*	6		
12/01/10	12:50 PM	1011-EMDASPST-0092	Woonasquatucket @ Manton Ave	RIVER	surface		6.42	7.83	324.00	2.79	*321.21*	7.54	<5.00	1170.0	515	*332*	4		
12/01/10	10:00 AM	1011-EMDASPST-0096	Woonasquatucket @ Valley St	RIVER	surface		7.05	7.68	351.00	1.99	*349.01*	<7.0	<5.00	997.0	609	*	8		
12/01/10	1:25 PM	1011-EMDASPST-0068	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
12/01/10	1:30 PM	1011-EMDASPST-0088	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.0	<5.0	<20	<100	*			
12/01/10	10:15 AM	1011-EMDASPST-0077	Nutrient Blank	RIVER					21.10	1.82	*19.28*	<7.00	<5.00	<20	<100	*			
12/15/10	10:25 AM	1012-EMDASPST-0023	Phillipsdale Landing	BAY	0.5	1.36	1.57	7.48	895.00	17.20	*877.80*	166.00	70.80	2140.0	1280	*1061*	22		
12/15/10	10:25 AM	1012-EMDASPST-0024	Phillipsdale Landing	BAY	2.1	2.59	1.89	7.33	886.00	17.30	*868.70*	163.00	69.40	2060.0	1270	*1049*	24		
12/15/10	10:00 AM	1012-EMDASPST-0029	Blackstone River at Slater Dam	RIVER	surface		2.15	7.87	532.00	15.80	*516.20*	109.00	14.30	1990.0	868	*641*	4		
12/15/10	10:00 AM	1012-EMDASPST-0030	Blackstone River at Slater Dam	RIVER	surface		2.15	7.87	534.00	15.30	*518.70*	118.00	14.30	1810.0	883	*652*	10		
12/15/10	8:45 AM	1012-EMDASPST-0028	Blackstone River at Stateline	RIVER	surface		1.26	7.35	489.00	16.60	*472.40*	115.00	13.70	2070.0	797	*604*	10		
12/15/10	10:19 AM	1012-EMDASPST-0041	Coles River @ Milford Rd, Swansea	RIVER	surface		2.05	8.71	163.00	7.93	*155.07*	9.67	7.81	1630.0	569	*173*	4		
12/15/10	10:02 AM	1012-EMDASPST-0042	Lee's River @ Rt. 6, Swansea	RIVER	surface		2.29	7.17	186.00	5.59	*180.41*	14.80	16.30	1660.0	421	*201*	18		
12/15/10	12:52 PM	1012-EMDASPST-0034	Moshassuck River @ Higginson Ave	RIVER	surface		2.94	7.58	395.00	7.41	*387.59*	13.60	12.00	2210.0	653	*409*	10		
12/15/10	2:05 PM	1012-EMDASPST-0035	Moshassuck River @ Mill St	RIVER	surface		2.43	7.41	447.00	7.00	*440.00*	56.90	7.44	2520.0	723	*504*	8		
12/15/10	11:19 AM	1012-EMDASPST-0039	Palmer River @ Rte. 6 Swansea	RIVER	surface		1.07	8.18	156.00	4.30	*151.70*	19.70	15.90	839.0	582	*176*	10		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/15/10	2:35 PM	1012-EMDASPST-0031	Pawtuxet @ Terminal Falls	RIVER	surface		2.62	7.14	947.00	7.68	*939.32*	217.00	16.20	2310.0	1470	*1164*	12		
12/15/10	11:35 AM	1012-EMDASPST-0038	Runnins @ River Road on RI-MA Border	RIVER	surface		0.33	7.18	306.00	5.14	*300.86*	14.20	8.14	3410.0	723	*320*	6		
12/15/10	9:25 AM	1012-EMDASPST-0043	Taunton River @ Berkley Bridge	RIVER	surface		3.00	8.97	460.00	10.60	*449.40*	24.80	20.10	1240.0	827	*485*	10		
12/15/10	12:49 PM	1012-EMDASPST-0036	Ten Mile @ Outlet of Omega Pond	RIVER	surface		2.98	7.72	2010.00	10.10	*1999.90*	80.10	39.30	2700.0	2600	*2090*	6		
12/15/10	12:49 PM	1012-EMDASPST-0037	Ten Mile @ Outlet of Omega Pond	RIVER	surface		2.98	7.72	2040.00	13.60	*2026.40*	70.00	41.20	2620.0	2560	*2110*	16		
12/15/10	10:49 AM	1012-EMDASPST-0040	Warren Reservoir/Kickemuit River	RIVER	surface		0.68	8.33	392.00	9.27	*382.73*	35.20	8.73	2400.0	870	*427*	10		
12/15/10	1:25 AM	1012-EMDASPST-0032	Woonasquatucket @ Manton Ave	RIVER	surface		1.79	7.25	278.00	<1.5	*	<7.00	<5.00	1160.0	506	*	6		
12/15/10	1:45 AM	1012-EMDASPST-0033	Woonasquatucket @ Valley St	RIVER	surface		1.79	7.29	308.00	2.30	*305.70*	10.60	<5.00	1380.0	525	*319*	6		
12/15/10	8:45 AM	1012-EMDASPST-0026	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			
12/15/10	11:07 AM	1012-EMDASPST-0027	Nutrient Blank	RIVER					8.08	<1.5	*	<7.00	<5.00	2700.0	<100	*			
12/16/10	10:25 AM	1011-EMDASPST-0067	Phillipsdale Landing	BAY CHL	0.5	1.36												2.923	2.479
12/29/10	1:15 PM	1012-EMDASPST-0046	Phillipsdale Landing	BAY	0.5	8.50	0.83		930.00	14.50	*915.50*	124.00	77.60	2700.0	1280	*1054*	2		
12/29/10	1:30 PM	1012-EMDASPST-0047	Phillipsdale Landing	BAY	1.6	24.61	2.55		903.00	15.00	*888.00*	126.00	77.70	2710.0	1290	*1029*	6		
12/29/10	1:15 PM	1012-EMDASPST-0048	Phillipsdale Landing	BAY CHL	0.5	8.53												0.493	1.093
12/29/10	1:15 PM	1012-EMDASPST-0049	Phillipsdale Landing	BAY CHL	0.5	8.53												0.498	1.165
12/29/10	9:05 AM	1012-EMDASPST-0051	Blackstone River at Slater Dam	RIVER	surface		0.07	8.22	908.00	19.20	*888.80*	160.00	39.30	2560.0	1310	*1068*	<2.0		
12/29/10	9:05 AM	1012-EMDASPST-0052	Blackstone River at Slater Dam	RIVER	surface		0.07	8.22	901.00	18.10	*882.90*	162.00	41.40	2700.0	1300	*1063*	6		

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

River and Bay Nutrients Data 2010

Collection Date	Collection Time	LIMS Number (s)	Station	Waterbody	Depth (meters; if exact depth was unknown	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	Calculated NO3 (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	Calculated DIN ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/29/10	8:20 AM	1012-EMDASPST-0058	Moshassuck River @ Higginson Ave	RIVER	surface		1.74	8.41	603.00	5.40	*597.60*	49.60	6.19	3660.0	781	*653*	2		
12/29/10	1:45 PM	1012-EMDASPST-0059	Moshassuck River @ Mill St	RIVER	surface		2.58	7.48	603.00	5.63	*597.37*	104.00	<5.00	3400.0	840	*707*	<2.0		
12/29/10	10:50 AM	1012-EMDASPST-0053	Pawtuxet @ Terminal Falls	RIVER	surface		1.13	8.00	1210.00	16.60	*1193.40*	313.00	38.50	2360.0	1800	*1523*	10		
12/29/10	12:35 PM	1012-EMDASPST-0054	Woonasquatucket @ Manton Ave	RIVER	surface		1.14	7.92	408.00	2.61	*405.39*	17.40	<5.00	1690.0	628	*425*	4		
12/29/10	1:00 PM	1012-EMDASPST-0055	Woonasquatucket @ Valley St	RIVER	surface		1.23	7.76	458.00	2.02	*455.98*	14.30	<5.00	1700.0	696	*472*	<2.0		
12/29/10	1:55 PM	1012-EMDASPST-0060	Nutrient Blank	RIVER					<6.0	<1.5	*	<7.00	<5.00	<20	<100	*			

Sample results with an * indicate that at least one parameter was measured at ≤ the detection limit and therefore a result was not able to be calculated

Table 26: River and Bay Nutrients Data 2010

Woonasquatucket, West, Providence, Seekonk Rivers Fecal Coliform Data 2010
(MPN/100ML)

	Woonasquatucket River							West River		Providence River	Seekonk River
Date	S-9-Manton Ave.	S-8A - Footbridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	S-8 - Atwells Ave.*	S-7C-Eagle Street*	S-10-Douglas Ave. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
1/4/2010	70	90	90	<30.	90	77				930	
1/5/2010					90	230		40	40	90	
1/11/2010	40	40	<30.	<30.	<30.	60				930	
1/12/2010					40	40		40	230	90	
1/19/2010	<30.	90	90	90	40	40				430	
1/20/2010					90	230		46,000	90	90	
1/22/2010								134	90		
1/25/2010	40	90	150	40	230	60				90	
1/26/2010					230	430		40	150	230	
2/1/2010	90	90	40	<30	40	35				40	
2/2/2010					200	<30.		90	40	430	
2/8/2010	230	<30	40	90	<30.	35				430	
2/9/2010					90	40		90	90	40	
2/12/2010				90	40	40				230	
2/15/2010	430	40	<30.	40	<30.	96				40	
2/16/2010					40	90		930	230	230	
2/22/2010	<30.	90	<30.	<30.	40	40				40	
2/23/2010					40	70		2,300	230	90	
3/1/2010	<30.	40	<30.	230	<30.	60				230	
3/2/2010					<30.	<30.		40	40	90	
3/8/2010	40	40	<30.	40	<30.	<30.				<30.	
3/9/2010					<30.	40		390	230	430	
3/15/2010	40	70	230	90	90	1,397				70	
3/16/2010					90	230		40	90	230	
3/22/2010	<30.	<30.	40	90	150	40				90	
3/23/2010					24,000	9,300		430	2,300	15,000	
3/29/2010	230	4,300	46,000	9,300	46,000	14,940				24,000	
3/30/2010					24,000			2,300	4,300	4,300	
4/1/2010				9,300							
4/5/2010				7,500							
4/6/2010	90	90	150	930	930	67				430	
4/7/2010				150							
4/8/2010					<30.	40		90	90	40	
4/9/2010				230							
4/12/2010	40	90	<30.	40	150					930	
4/13/2010					90			230	230	930	
4/19/2010	90	40	40	230	430					150	
4/20/2010					90	<30.		40	430	430	

Table 27: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

Woonasquatucket, West, Providence, Seekonk Rivers Fecal Coliform Data 2010
(MPN/100ML)

	Woonasquatucket River							West River		Providence River	Seekonk River
Date	S-9-Manton Ave.	S-8A - Footbridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	S-8 - Atwells Ave.*	S-7C-Eagle Street*	S-10-Douglas Ave. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
4/26/2010	150	200	150	200	230	430				430	
4/27/2010					230	<30.		40	4,300	230	
5/3/2010	230	1,500	4,300	15,000	110,000					>240,000.	
5/4/2010					2,300			930	24,000	930	230
5/10/2010	90	430	430	430	930		632			2,300	
5/11/2010					150		230	2,100	230	930	90
5/17/2010	230	230	230	230	230		90			<30.	
5/18/2010					430		430	230	930	2,300	70
5/24/2010	230	230	230	230	230		220			230	
5/25/2010					230		230	930	9,300	230	<30.
5/27/2010									3,145		
6/1/2010	2,300	930	4,300	4,300	4,300		2,300			9,300	
6/2/2010					24,000		110,000	930	9,300	24,000	4,300
6/7/2010	430	230	46,000	2,300	4,300		110,000			2,300	430
6/8/2010					9,300		24,000	24,000	2,300	2,300	
6/14/2010	2,300	2,300	46,000	46,000	4,300		33,226			2,300	430
6/15/2010					2,300		24,000	430	2,300	930	
6/21/2010	2,300	4,300	24,000	24,000	24,000		14,940			4,300	2,300
6/22/2010					24,000		9,300	930	4,300	9,300	
6/28/2010	230	430	9,300	24,000	24,000					24,000	
6/29/2010					15,000		9,300	9,300	930	4,300	
7/6/2010	430	2,300	>240,000.	9,300	46,000		31,081			46,000	
7/7/2010					46,000		24,000	24,000	4,300	110,000	40
7/8/2010	750	430	71,134	>240,000	110,000		46,000				
7/9/2010	430	930	2,300	9,300	4,300		2,300			4,300	
7/12/2010	2,300	4,300	2,300	24,000	2,300		6,324			4,300	230
7/13/2010					2,300		4,300	4,300	4,300	9,300	90
7/19/2010	430	930	2,300	1,500	930		2,000			2,300	<30.
7/20/2010					24,000		4,300	2,300	15,000	24,000	2,300
7/26/2010	430	430	4,300	4,300	4,300		2,300			4,300	430
7/27/2010					9,300		4,300	2,300	4,300	2,300	40
8/2/2010	930	930	930	930	2,300		632			230	<30.
8/3/2010					930		930	4,300	930	430	<30.
8/5/2010								390	2,300		
8/10/2010	230	930	430	9,300	9,300		3,145			2,300	90
8/11/2010					930		930	2,300	2,300	230	90
8/16/2010	230	430	4,300	24,000	24,000		3,145			9,300	40

Table 27: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

Woonasquatucket, West, Providence, Seekonk Rivers Fecal Coliform Data 2010
(MPN/100ML)

	Woonasquatucket River							West River		Providence River	Seekonk River
Date	S-9-Manton Ave.	S-8A - Footbridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	S-8 - Atwells Ave.*	S-7C-Eagle Street*	S-10-Douglas Ave. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
8/17/2010					24,000		930	750	930	2,300	90
8/19/2010			2,300	4,300	4,300		2,300			4,300	
8/23/2010	2,300	2,300	4,300	4,300	4,300		9,300		24,000	46,000	4,300
8/24/2010					4,300		4,300	4,300		2,300	230
8/30/2010	1,500	230	430	430	930		835			430	<30.
8/31/2010					930		2,300	2,300	4,300	430	40
9/2/2010	430			930			430	4,300	930		
9/7/2010	430	430	2,300		4,300		1,360			2,300	430
9/8/2010					2,300		2,300	2,300	2,300	4,300	230
9/13/2010	930	930	230	2,300	230		230			2,300	430
9/14/2010					430		430	430	2,300	430	40
9/16/2010		430	430	390	390			430	2,300	9,300	
9/20/2010	430			430	930		430			4,300	90
9/21/2010		430			430		2,300	930	9,300	430	40
9/23/2010					2,300		430		994		
9/27/2010	430		930	2,300			314			4,300	40
9/28/2010					2,300		230	4,300	24,000	930	40
10/4/2010	1,500	2,300	2,300	4,300	4,300		9,300			9,300	4,300
10/5/2010					46,000		46,000	9,300	24,000	9,300	930
10/12/2010	230	150	90	230	90		144			230	<30.
10/13/2010					40		40	230	430	230	40
10/18/2010	90	230	430	70	430		462			430	150
10/19/2010					930		230	230	2,300	430	430
10/21/2010					90				3,145		
10/25/2010	90	90	150	430	230		35			430	40
10/26/2010							90	150	430	230	<30.
11/1/2010	90	90	150	40	90		96			90	40
11/3/2010					150		90	930	230	230	40
11/6/2010					460						
11/7/2010					930						
11/8/2010	150	930	1,200	2,300	<30.		632			1,200	90
11/9/2010					930		430	230	4,300	930	
11/15/2010	<30.	<30.	40	90	90		60			230	40
11/16/2010					230		90	390	430	150	
11/18/2010					930						
11/19/2010					90						
11/20/2010					430						

Table 27: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

Woonasquatucket, West, Providence, Seekonk Rivers Fecal Coliform Data 2010
(MPN/100ML)

	Woonasquatucket River							West River		Providence River	Seekonk River
Date	**S-9-Manton Ave.**	**S-8A - Footbridge Olneyville**	**S-8C-Delaine St.**	**S-7B-Pleasant Valley Pkwy.**	**S-7A-Kinsley St.**	**S-8 - Atwells Ave.***	**S-7C-Eagle Street***	**S-10-Douglas Ave. Bridge**	**S-11-West River St. Bridge**	**S-12- Crawford St. Bridge**	**SR-5A Pitman Street**
11/21/2010	40				230						
11/22/2010		230	930	90	210		60			230	930
11/23/2010					930			90	430		
11/29/2010	70	40	90	<30.	90		<30.			40	40
11/30/2010					40		<30.	<30.	40		
12/6/2010	90	230	40	<30.	90		35			<30.	70
12/7/2010					230		930	90	90	40	
12/13/2010	750	930	1,500	930	4,300		1,500			4,300	2,300
12/14/2010					230		930	230	930	430	
12/20/2010	230	90	230	90	70		116			90	430
12/21/2010					40		150	40	230	90	
12/27/2010	70	90	90	70	90		177			230	
12/28/2010							90	230	40	40	

* due to the flooding in March 2010, the Atwells Ave. sampling location had to be changed to Eagle Street.

Table 27: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data 2010

	Moshassuck River							Blackstone River		Pawtuxet River
Date	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetary	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetary St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
01/04/10				803				230	40	60
01/05/10	70	1,500	632	632	90	150	430			
01/07/10	90	186	150							
01/11/10				930				230	90	<30.
01/12/10	40	230	632	186	230	150	230			
01/19/10				462				930	90	144
01/20/10	430	9,300	14,940	230	9,300	90	430			
01/25/10				314				90	90	35
01/26/10	90	1,500	3,145	568	430	430	230			
02/01/10				289				230	430	
02/02/10	40	430	35	220	70	390	230			144
02/08/10				397				430	70	35
02/09/10	<30.	90	230	144	90	230	90			
02/12/10										
02/15/10		90		144				40	90	<30.
02/16/10	430		314	314	430	430	40			
02/22/10				430				40	90	35
02/23/10	<30.	430	90	96	110	230	40			
03/01/10				245				750	280	80
03/02/10	<30.	390	230	116	<30.	210	40			
03/08/10				930				230	230	<30.
03/09/10	40	430	186	300	930	230	430			
03/15/10				632				390	430	144
03/16/10	70	430	568	1,181	1,500	230	1,500			
03/22/10				197				90	230	52
03/23/10	930	2,300	71,134	9,300	110,000	24,000	9,300			
03/29/10				46,000				70	1,200	144
03/30/10	230		110,000		4,300	4,300	46,000			
04/01/10										2,300
04/04/10										13,975
04/05/10				<30.						24,000
04/06/10				197				<30.	<30.	9,300
04/07/10				70						2,300
04/08/10	<30.	430	230	230	230	70	90			2,300
04/09/10				150						4,300
04/10/10										5,679
04/11/10										254
04/12/10				632				40	90	40
04/13/10	<30.	750	90	230	40	40	750			230
04/14/10										40
04/15/10										52
04/16/10										35
04/19/10				632				40	40	40
04/20/10	40	9,300	3,145	7,430	40	930	24,000			90
04/21/10										116
04/22/10	90	390	314	930	150		90			
04/23/10										150
04/26/10				1,857				<30.	<30.	9,300
04/27/10	40	930	632	3,735	2,300	4,300	4,300			430
05/03/10				8,352				230	930	462

Table 28: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data 2010

	Moshassuck River							Blackstone River		Pawtuxet River
Date	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetary	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetary St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
05/04/10	430	150	632	4,300	930	2,300	2,300			430
05/10/10				6,324				430	430	144
05/11/10	90	150	362	750	930	2,100	230			210
05/17/10				314				40	<30.	52
05/18/10	430	930	462	1,463	2,300	930	430			230
05/24/10				930				40	90	80
05/25/10	<30.	430	96	930	230	230	930			
06/01/10				3,145				430	90	60
06/02/10	230	2,300	4,625	6,324	46,000	24,000	2,300			
06/07/10				3,145				230	430	930
06/08/10	230	930	462	462	930	930	2,300			430
06/14/10				4,625				230	4,300	2,000
06/15/10	430		1,463	2,000	4,300	2,300	230			430

Table 28: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data 2010

	Moshassuck River							Blackstone River		Pawtuxet River
Date	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetary	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetary St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
06/21/10				4,625				230	2,300	197
06/22/10	930	930	3,145	632	2,300	2,300	2,300			90
06/28/10				6,324				40	230	230
06/29/10	430	430	9,300	994	4,300	4,300	430			9,300
07/06/10				1,463				90	430	430
07/07/10	390	750	430	2,300	4,300	9,300	1,500			
07/09/10										
07/12/10	930			3,145		2,300	2,300	1,500	2,300	750
07/13/10		2,300	33,226	2,300	9,300					
07/19/10	230			4,300				70	230	632
07/20/10		9,300	9,300	11,811	2,300	15,000	21,000			
07/26/10				1,463				750	930	230
07/27/10	<30.	2,300	6,324	4,300	2,100	2,300	2,300			
08/02/10				632				230	90	144
08/03/10	2,300	430	994	994	430	930	2,300			
08/05/10		230		1,500						
08/10/10	314		430	2,300			430	70	90	60
08/11/10		230	930	1,857	2,300	4,300				
08/16/10	230			4,300			2,300	40	90	96
08/17/10	90	90	430	2,941	1,500	430				
08/19/10				430		2,300	430	40		
08/23/10				110,000					2,300	3,145
08/24/10	2,300	2,300	3,145	3,735	24,000	9,300	46,000			
08/30/10				2,000				90	90	177
08/31/10	930	2,300	1,360	1,463	4,300	930	930			
09/02/10	568	930	430	2,300	930					
09/07/10				4,300				230	230	430
09/08/10	430	<30.	2,000	1,463	2,300	2,300	2,300			
09/13/10				3,145				150	230	90
09/14/10	150	40		1,500	930	930	430			
09/16/10				2,300		750				
09/20/10				14,940				230	230	144
09/21/10	230	230	632	632	2,300	4,300	4,300			
09/23/10					930	930	930			
09/27/10				4,300				90	40	197
09/28/10	930	430	632	3,145	430	2,300	930			
10/04/10				4,625				150	930	96
10/05/10	2,300	4,300	105,071	>240,000.	24,000	>240,000.	46,000			
10/12/10				3,125				90	90	173
10/13/10	430	230	197	835	230	930	230			
10/18/10				930				40	430	186
10/19/10	90	930	632	314	930	430	90			
10/25/10				314				<30.	40	35
10/26/10	90	40	193	314	230	430	230			
11/01/10				314				40	150	40
11/03/10	90	90	632	835	430	230	430			
11/06/10				711						
11/07/10				803						
11/08/10				6,324				230	930	
11/09/10	150	140	994	632	930	430	1,500			

Table 28: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data 2010

	Moshassuck River							Blackstone River		Pawtuxet River
Date	**S-1- Higginson Ave. Bridge**	**S-4D- St. Francis Cemetary**	**S-4B- End of Moshassuck St.**	**S-5- Footbridge Mill St.**	**S-4- Cemetary St. Bridge**	**S-5A- Stevens St. Bridge**	**S-6- Park Row Bridge**	**S-2- Whipple Bridge**	**S-3- Slater Mill Dam**	**Pawtuxet River @ Broad Street**
11/15/10				14,064				40	<30.	<30.
11/16/10	430	90	116	177	230	150	430			
11/18/10				2,300						150
11/19/10				4,300						90
11/20/10				632						90
11/21/10				220						<30.
11/22/10				1,463				430	430	<30.
11/23/10	90	930	695	930	430	930	230			<30.
11/29/10				2,050				40	70	80
11/30/10	<30.	90	150	4,300	144	90	430			
12/06/10				230				90	90	60
12/07/10	<30.	430	462	90	40	230	<30.			
12/13/10				930				2,300	750	3,145
12/14/10	2,300	4,300	2,941	2,000	4,300	4,300	930			
12/20/10				2,300				<30.	230	90
12/21/10	230	230	314	254	90	430	230			
12/27/10				144				<30.	90	144
12/28/10	930			220	230	430	750			

Table 28: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

Bay Fecal Data 2010

	Date	1/21/10	2/3/10	2/17/10	3/3/10	3/25/10	4/1/10	4/5/10	4/7/10	4/9/10	4/21/10	4/28/10	5/12/10	6/30/10	7/14/10	7/28/10	8/12/10	8/25/10	9/9/10	9/23/10	10/6/10	10/20/10	11/4/10	11/17/10	12/8/10	12/22/10	Geomean	Min	Max
Seekonk River	**Division St Dock**	93		43	930	93	1,500	30	93	93	43	23	230	930	930		430	2,300	230	430	4,300	43	150	2,300	93	93	**211**	23	2300
	Div St Dock Duplicate	43		93	930	150	430	40		230	43	43	93	430	1,500		230	2,300	230	NM	1,500	23	150	4,300	43	43			
	Bishop Pt	93		9	430	93	430	150	7	9	23	23	230	930	430		43	150	150	NM	2,300	23	93	46,000	93	93	**125**	7	930
	BP Outfall	15		23	430	230	1,500	40	15	23	43	230	230	2,300	930		43	230	43	43	110,000	43	43	4,300	230	93	**166**	15	110000
	Phillipsdale Landing	150		93	430	230	430	430	93	75	150	75	93	430	43		9	230	43	150	1,500	43	230	430	9	43	**109**	3	2300
	Phillipsdale Landing Duplicate	150		23	390	43	230	90	43	3	43	230	93	2,300	75		23	430	23	93	2,300	23	93	230	93	93			
	Narr Boating Center	43	230	43	2,300	23	430	30	43	43		150	230	2,300	43		23	230	39	NM	930	93	150	1,500	23	43	**122**	23	2300
	Crook Pt	150	43	4	230	230	750	430	23	43		150	43	430	230	43	4	930	93	NM	930	93	75	9,300	43	75	**121**	4	9300
Providence River	**Comm. Boating Center**	43	43	9	430	430	2,300	90	23	23		93	43	430	93	93	43	2,300	43	23	230	23	23	930	23	23	**86**	9	2300
	Point St Bridge	230	430	430	93	?	7,500	30	93	230	93	2,300	430	9,300	4,300	430	93	1,500		39	930	93	230	24,000	43	230	**402**	30	24000
	Collier Pt Park	150	43	23	230	230	4,300	90	150	23	93	430	43	2,300	75	150	23	930	93	NM	930	93	930	9,300	23	9	**164**	9	9300
	FP Outfall	93	43	9	430	150	1,500	150	93	9	23	93	23	230	39	4	9	230	43	4	43	93	43	230	4	23	**51**	3	1500
	FP Outfall Duplicate	93	43	9	430	93	1,500	30	43	43	43	23	43	230	43	3	23	430	23	NM	93	93	43	93	9	43			
	South FP East	93	9	9	230	230	2,300	430	43	430	43	93	9	230	23	9	9	43	23	9	93	4	15	23		15	**43**	4	2300
	Save the Bay	7	23	4	93	230	930	150	230	93	230	23	23	430	9	43	15	430	23	NM	230	23	43	43	4	15	**50**	4	930
	Edgewood Yacht Club	15	23	23	230	93	430	230	390	75	23	75	15	93	9	43	43	93	15	3	43	23	43	43	93	43	**47**	3	430
	Pawt/Prov Junction	21	43	9	1,500	430	9,300	750	4,300	930	930	430	23	93	23	4	4	230	9	3	23	23	15	93	15	93	**79**	3	9300
	Gaspee Pt	9	23	23	93	230	4,300	930	930	430	430	230	9	93	3	15	7	430	15	3	15	43	23	4	4	43	**48**	3	4300
	Bullock Neck	93	93	43	9	93	2,300	230	1,500	23	9	23	23	43	3	3	4	43	3	9	9	23	15	93		23	**30**	3	2300
	Bullocks Reach Buoy	23	4	9	430	230	4,300	230	430	150	230	43	9	230	3	3	43	43	4	7	9	23	4	23	43	43	**37**	3	4300
	Shawomet	15	23	23	43	93	3,900	930	430	93	230	43	9	93	3	9	3	43	4	3	23	4	23	4	43	43	**31**	3	3900
	North of Nayatt Point	93	3	93	43	93	4,300	430	2,300	43	230	93	4	43	4	3	3	43	3	3	4	4	23	4		93	**29**	3	4300
	Conimicut Pt	11	3	4	43	430	930	430	430	23	230	4	9	430	3	3	3	93	3	3	9	9	9	23		4	**26**	3	2300
	Conimicut Pt Duplicate	11	4	4	43	430	1,500	280	230	23	2,300	43	93	430	3	3	3	230	3	3	23	9	4	23		23			
	Final Geomean	**46**	**26**	**19**	**223**	**158**	**1507**	**162**	**145**	**56**	**97**	**80**	**40**	**397**	**38**	**13**	**16**	**266**	**22**	**12**	**183**	**27**	**44**	**250**	**28**	**40**	***68***	12	1507
	Final Max	230	430	430	2,300	430	9,300	930	4,300	930	2,300	2,300	430	9,300	4,300	430	430	2,300	230	430	110,000	93	930	46,000	230	230			
	Number of Stations Sampled (including duplicates)	24	18	24	24	23	24	24	23	24	21	24	24	24	24	17	24	24	23	17	24	24	24	24	19	24			
	Bay Blank	<3	<3	<3	<3	<30	<30	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
Rain Data	Rain total - Day of sampling (in time prior to sampling)	0	0	0	0	0	0	0	0		0	0	0	0	1.1	0	0		0	0	1.44	0	1.02	1.45	0	0.01			
	Rain total - 1 Day prior to sampling	0	0	0.17	0	0	0.02	0	0	0	0	0.11	0	0	0.21	0	0	0.31	0	0	0.19	0	0	0.05	0	0			
	Rain total - 2 Days prior to sampling	0.18	0	0	0.09	3.3	5.32	0	0	0	0	0.07	0	0.66	0	0	0.04	0.35	0	0	0.13	0	0	0	0	0.01			
	Rain total - 3 Days prior to sampling	0.72	0	0		0.08	3.47	0	0	0	0	0.16	0	0	0	0.09	0	1.42	0	0	0.02	0	0	0	0	0			
	Rain total - 4 Days prior to sampling	0.72	0	0	0.03	0	0.02	0	0	0	0.11	0	0.84	0	0	0.26	0	0	0	0	0	0	0	0	0	0			
	Rain total - 5 Days prior to sampling	0	0	0	0.01	0	0	0.02	0	0	0.41	0	0	0	0.36	0.77	0	0	0	0	0.39	0.91	0	0	0	0			
	Total Rainfall	**1.62**	**0**	**0.17**	**0.13**	**3.38**	**8.83**	**0.02**	**0**	**0**	**0.52**	**0.34**	**0.84**	**0.66**	**1.67**	**1.12**	**0.04**	**2.08**	**0**	**0**	**2.17**	**0.91**	**1.02**	**1.5**	**0**	**0.02**			

Table 29: Bay Fecal Coiform Data

*Rain data is from TF Green

Results are in MPN/100 ml

Enterococci Results 2010

Results are in MPN/100 mL or Most Probable Number/100 ml

Date	1/21/10	2/3/10	2/17/10	3/3/10	3/25/10	4/21/10	4/28/10	5/12/10	6/30/10	7/14/10	7/28/10	8/25/10	9/9/10	9/23/10	10/6/10	10/20/10	11/4/10	11/17/10	12/8/10	12/22/10	Min	Max	Geomean
Phillipsdale Landing	20		10	97	52	10	10	31	10	10		20	10	10	6131	1	31	189	10	81	**1**	**6131**	**25**
Phillipsdale Landing Duplicate	52	10	1	96	279	10	20	10	1	10		41	10	10	4569	1	52	275	10	71	**1**	**4569**	**23**
Point St Bridge	98	142	1	31		10	199	275	1	73	276	223		10	9804	145	86	14,136	20	100	**1**	**14136**	**83**
South FP East	63	1	10	203	41	10	41	10	10	10	>2416.6	10	10	10	189	1	20	20		10	**1**	**203**	**20**
Gaspee Pt	31	20	10	52	75	145	31	10	10	10	517	86	10	10	10	31	10	10		20	**10**	**517**	**25**
Conimicut Pt	10	1	1	10	20	197	10	10	1	10	365	10	10	10	10	1	10	10		10	**1**	**365**	**9**
Conimicut Pt Duplicate	31	1	1	10	52	187	10	10	1	10	272	20	10	10	10	1	10	10		10	**1**	**272**	**10**
Blank	<10	<1	<1	<10	<10		<10	<10	<1	<10	<1	<10	<10		<10	<1	<10	<10	<10	<10			
Geomean	**35**	**6**	**3**	**44**	**60**	**34**	**24**	**19**	**3**	**13**	**509**	**32**	**10**	**10**	**244**	**3**	**22**	**76**	**13**	**27**			

Table 30: Bay Enterococci Data

All samples are from CSO Wet weather Overflow at Esten Street (NBC CSO # 219)

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1300	NO3+NO2	ppm-N	0.256
10/1/2010	1300	Total_Phosphorus-P	ppm	1.16
10/1/2010	1300	Ammonia	ppm-N	1.72
10/1/2010	1300	TKN	ppm-N	6.17
10/1/2010	1300	OG	ppm	8.41
10/1/2010	1300	Oil_and_Grease	ppm	8.41
10/1/2010	1300	Lead	ppb	29
10/1/2010	1300	Copper	ppb	35.2
10/1/2010	1300	2-Fluorophenol	%	36
10/1/2010	1300	Phenol-d5	%	42
10/1/2010	1300	Mercury	ppt	49.7
10/1/2010	1300	BOD	ppm	74.02
10/1/2010	1300	Nitrobenzene-d5	%	79
10/1/2010	1300	2-Fluorobiphenyl	%	90
10/1/2010	1300	Zinc	ppb	90.6
10/1/2010	1300	4-Bromofluorobenzene	%	97
10/1/2010	1300	Toluene-d8	%	102
10/1/2010	1300	Dibromofluoromethane	%	103
10/1/2010	1300	P-Terphenyl-d14	%	109
10/1/2010	1300	TSS	ppm	110
10/1/2010	1300	246-Tribromophenol	%	113
10/1/2010	1300	Aluminum	ppb	770
10/1/2010	1300	Iron	ppb	1170
10/1/2010	1300	111-Trichloroethane	ppb	<1.
10/1/2010	1300	1122-t-chloroethane	ppb	<1.
10/1/2010	1300	112-Trichloroethane	ppb	<1.
10/1/2010	1300	1,1-Dichloroethane	ppb	<1.
10/1/2010	1300	1,1-Dichloroethylene	ppb	<1.
10/1/2010	1300	1,2-Dichlorobenzene	ppb	<1.
10/1/2010	1300	1,2-Dichloroethane	ppb	<1.

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1335	NO3+NO2	ppm-N	0.203
10/1/2010	1335	Total_Phosphorus-P	ppm	0.581
10/1/2010	1335	Ammonia	ppm-N	1.43
10/1/2010	1335	TKN	ppm-N	3.94
10/1/2010	1335	OG	ppm	6.06
10/1/2010	1335	Oil_and_Grease	ppm	6.06
10/1/2010	1335	Lead	ppb	11.3
10/1/2010	1335	Copper	ppb	21.9
10/1/2010	1335	Mercury	ppt	22.6
10/1/2010	1335	TSS	ppm	30
10/1/2010	1335	2-Fluorophenol	%	38
10/1/2010	1335	BOD	ppm	38.4
10/1/2010	1335	Phenol-d5	%	46
10/1/2010	1335	Zinc	ppb	59.6
10/1/2010	1335	Nitrobenzene-d5	%	64
10/1/2010	1335	2-Fluorobiphenyl	%	97
10/1/2010	1335	4-Bromofluorobenzene	%	97
10/1/2010	1335	Dibromofluoromethane	%	103
10/1/2010	1335	Toluene-d8	%	105
10/1/2010	1335	P-Terphenyl-d14	%	117
10/1/2010	1335	246-Tribromophenol	%	123
10/1/2010	1335	Iron	ppb	452
10/1/2010	1335	Aluminum	ppb	465
10/1/2010	1335	111-Trichloroethane	ppb	<1.
10/1/2010	1335	1122-t-chloroethane	ppb	<1.
10/1/2010	1335	112-Trichloroethane	ppb	<1.
10/1/2010	1335	1,1-Dichloroethane	ppb	<1.
10/1/2010	1335	1,1-Dichloroethylene	ppb	<1.
10/1/2010	1335	1,2-Dichlorobenzene	ppb	<1.
10/1/2010	1335	1,2-Dichloroethane	ppb	<1.

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1410	NO3+NO2	ppm-N	0.216
10/1/2010	1410	Total_Phosphorus-P	ppm	0.772
10/1/2010	1410	Ammonia	ppm-N	2.46
10/1/2010	1410	TKN	ppm-N	5.94
10/1/2010	1410	OG	ppm	7.47
10/1/2010	1410	Oil_and_Grease	ppm	7.47
10/1/2010	1410	Copper	ppb	22
10/1/2010	1410	TSS	ppm	24
10/1/2010	1410	Mercury	ppt	24.5
10/1/2010	1410	2-Fluorophenol	%	38
10/1/2010	1410	Phenol-d5	%	44
10/1/2010	1410	BOD	ppm	46.8
10/1/2010	1410	Zinc	ppb	61.8
10/1/2010	1410	Nitrobenzene-d5	%	75
10/1/2010	1410	4-Bromofluorobenzene	%	94
10/1/2010	1410	2-Fluorobiphenyl	%	95
10/1/2010	1410	Toluene-d8	%	103
10/1/2010	1410	Dibromofluoromethane	%	104
10/1/2010	1410	P-Terphenyl-d14	%	110
10/1/2010	1410	246-Tribromophenol	%	123
10/1/2010	1410	Iron	ppb	336
10/1/2010	1410	Aluminum	ppb	470
10/1/2010	1410	111-Trichloroethane	ppb	<1.
10/1/2010	1410	1122-t-chloroethane	ppb	<1.
10/1/2010	1410	112-Trichloroethane	ppb	<1.
10/1/2010	1410	1,1-Dichloroethane	ppb	<1.
10/1/2010	1410	1,1-Dichloroethylene	ppb	<1.
10/1/2010	1410	1,2-Dichlorobenzene	ppb	<1.
10/1/2010	1410	1,2-Dichloroethane	ppb	<1.
10/1/2010	1410	1,2-Dichloropropane	ppb	<1.

All samples are from CSO Wet weather Overflow at Esten Street (NBC CSO # 219)

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1300	1,2-Dichloropropane	ppb	<1.
10/1/2010	1300	1,3-Dichlorobenzene	ppb	<1.
10/1/2010	1300	1,4-Dichlorobenzene	ppb	<1.
10/1/2010	1300	Benzene	ppb	<1.
10/1/2010	1300	Bromodichloromethane	ppb	<1.
10/1/2010	1300	Bromoform	ppb	<1.
10/1/2010	1300	CarbonTetrachloride	ppb	<1.
10/1/2010	1300	Chlorobenzene	ppb	<1.
10/1/2010	1300	Chloroform	ppb	<1.
10/1/2010	1300	cis13Dichloropropyle	ppb	<1.
10/1/2010	1300	Dibromochloromethane	ppb	<1.
10/1/2010	1300	Ethylbenzene	ppb	<1.
10/1/2010	1300	t12-Dichloroethylene	ppb	<1.
10/1/2010	1300	t13dichloropropylene	ppb	<1.
10/1/2010	1300	Tetrachloroethylene	ppb	<1.
10/1/2010	1300	Toluene	ppb	<1.
10/1/2010	1300	Trichloroethylene	ppb	<1.
10/1/2010	1300	Trichlorofluorometha	ppb	<1.
10/1/2010	1300	Vinyl Chloride	ppb	<1.
10/1/2010	1300	Xylenes	ppb	<1.
10/1/2010	1300	Bromomethane	ppb	<10.
10/1/2010	1300	Chloroethane	ppb	<10.
10/1/2010	1300	Chloromethane	ppb	<10.
10/1/2010	1300	Chromium	ppb	<10.0
10/1/2010	1300	Nickel	ppb	<10.0
10/1/2010	1300	2chloroethylvinyleth	ppb	<2.
10/1/2010	1300	Cadmium	ppb	<2.50
10/1/2010	1300	Cyanide	ppb	<4.00
10/1/2010	1300	Silver	ppb	<4.00
10/1/2010	1300	Methylene Chloride	ppb	<5.

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1335	1,2-Dichloropropane	ppb	<1.
10/1/2010	1335	1,3-Dichlorobenzene	ppb	<1.
10/1/2010	1335	1,4-Dichlorobenzene	ppb	<1.
10/1/2010	1335	Benzene	ppb	<1.
10/1/2010	1335	Bromodichloromethane	ppb	<1.
10/1/2010	1335	Bromoform	ppb	<1.
10/1/2010	1335	CarbonTetrachloride	ppb	<1.
10/1/2010	1335	Chlorobenzene	ppb	<1.
10/1/2010	1335	Chloroform	ppb	<1.
10/1/2010	1335	cis13Dichloropropyle	ppb	<1.
10/1/2010	1335	Dibromochloromethane	ppb	<1.
10/1/2010	1335	Ethylbenzene	ppb	<1.
10/1/2010	1335	t12-Dichloroethylene	ppb	<1.
10/1/2010	1335	t13dichloropropylene	ppb	<1.
10/1/2010	1335	Tetrachloroethylene	ppb	<1.
10/1/2010	1335	Toluene	ppb	<1.
10/1/2010	1335	Trichloroethylene	ppb	<1.
10/1/2010	1335	Trichlorofluorometha	ppb	<1.
10/1/2010	1335	Vinyl Chloride	ppb	<1.
10/1/2010	1335	Xylenes	ppb	<1.
10/1/2010	1335	Bromomethane	ppb	<10.
10/1/2010	1335	Chloroethane	ppb	<10.
10/1/2010	1335	Chloromethane	ppb	<10.
10/1/2010	1335	Chromium	ppb	<10.0
10/1/2010	1335	Nickel	ppb	<10.0
10/1/2010	1335	2chloroethylvinyleth	ppb	<2.
10/1/2010	1335	Cadmium	ppb	<2.50
10/1/2010	1335	Cyanide	ppb	<4.00
10/1/2010	1335	Silver	ppb	<4.00
10/1/2010	1335	Methylene Chloride	ppb	<5.

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1410	1,3-Dichlorobenzene	ppb	<1.
10/1/2010	1410	1,4-Dichlorobenzene	ppb	<1.
10/1/2010	1410	Benzene	ppb	<1.
10/1/2010	1410	Bromodichloromethane	ppb	<1.
10/1/2010	1410	Bromoform	ppb	<1.
10/1/2010	1410	CarbonTetrachloride	ppb	<1.
10/1/2010	1410	Chlorobenzene	ppb	<1.
10/1/2010	1410	Chloroform	ppb	<1.
10/1/2010	1410	cis13Dichloropropyle	ppb	<1.
10/1/2010	1410	Dibromochloromethane	ppb	<1.
10/1/2010	1410	Ethylbenzene	ppb	<1.
10/1/2010	1410	t12-Dichloroethylene	ppb	<1.
10/1/2010	1410	t13dichloropropylene	ppb	<1.
10/1/2010	1410	Tetrachloroethylene	ppb	<1.
10/1/2010	1410	Toluene	ppb	<1.
10/1/2010	1410	Trichloroethylene	ppb	<1.
10/1/2010	1410	Trichlorofluorometha	ppb	<1.
10/1/2010	1410	Vinyl Chloride	ppb	<1.
10/1/2010	1410	Xylenes	ppb	<1.
10/1/2010	1410	Bromomethane	ppb	<10.
10/1/2010	1410	Chloroethane	ppb	<10.
10/1/2010	1410	Chloromethane	ppb	<10.
10/1/2010	1410	Chromium	ppb	<10.0
10/1/2010	1410	Lead	ppb	<10.0
10/1/2010	1410	Nickel	ppb	<10.0
10/1/2010	1410	2chloroethylvinyleth	ppb	<2.
10/1/2010	1410	Cadmium	ppb	<2.50
10/1/2010	1410	Cyanide	ppb	<4.00
10/1/2010	1410	Silver	ppb	<4.00
10/1/2010	1410	Methylene Chloride	ppb	<5.

All samples are from CSO Wet weather Overflow at Esten Street (NBC CSO # 219)

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1300	124-Trichlorobenzene	ppb	<5.000
10/1/2010	1300	1,2-Dichlorobenzene	ppb	<5.000
10/1/2010	1300	12-Diphenylhydrazine	ppb	<5.000
10/1/2010	1300	1,3-Dichlorobenzene	ppb	<5.000
10/1/2010	1300	1,4-Dichlorobenzene	ppb	<5.000
10/1/2010	1300	246-Trichlorophenol	ppb	<5.000
10/1/2010	1300	2,4-Dichlorophenol	ppb	<5.000
10/1/2010	1300	2,4-Dimethylphenol	ppb	<5.000
10/1/2010	1300	2,4-Dinitrophenol	ppb	<5.000
10/1/2010	1300	2,4-Dinitrotoluene	ppb	<5.000
10/1/2010	1300	2,6-Dinitrotoluene	ppb	<5.000
10/1/2010	1300	2-Chloronaphthalene	ppb	<5.000
10/1/2010	1300	2-Chlorophenol	ppb	<5.000
10/1/2010	1300	2Methyl46dinitrophen	ppb	<5.000
10/1/2010	1300	2-Nitrophenol	ppb	<5.000
10/1/2010	1300	33-Dichlorobenzidine	ppb	<5.000
10/1/2010	1300	4Bromophenphenether	ppb	<5.000
10/1/2010	1300	4Chloro3methylphenol	ppb	<5.000
10/1/2010	1300	4Chlorophenphenether	ppb	<5.000
10/1/2010	1300	4-Nitrophenol	ppb	<5.000
10/1/2010	1300	Acenaphthene	ppb	<5.000
10/1/2010	1300	Acenaphthylene	ppb	<5.000
10/1/2010	1300	Anthracene	ppb	<5.000
10/1/2010	1300	Benzidine	ppb	<5.000
10/1/2010	1300	Benzo(a)anthracene	ppb	<5.000
10/1/2010	1300	Benzo(a)pyrene	ppb	<5.000
10/1/2010	1300	Benzo(b)fluoranthene	ppb	<5.000
10/1/2010	1300	Benzo(g,h,i)perylene	ppb	<5.000
10/1/2010	1300	Benzo(k)fluoranthene	ppb	<5.000
10/1/2010	1300	bis2chloroethoxymeth	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1335	124-Trichlorobenzene	ppb	<5.000
10/1/2010	1335	1,2-Dichlorobenzene	ppb	<5.000
10/1/2010	1335	12-Diphenylhydrazine	ppb	<5.000
10/1/2010	1335	1,3-Dichlorobenzene	ppb	<5.000
10/1/2010	1335	1,4-Dichlorobenzene	ppb	<5.000
10/1/2010	1335	246-Trichlorophenol	ppb	<5.000
10/1/2010	1335	2,4-Dichlorophenol	ppb	<5.000
10/1/2010	1335	2,4-Dimethylphenol	ppb	<5.000
10/1/2010	1335	2,4-Dinitrophenol	ppb	<5.000
10/1/2010	1335	2,4-Dinitrotoluene	ppb	<5.000
10/1/2010	1335	2,6-Dinitrotoluene	ppb	<5.000
10/1/2010	1335	2-Chloronaphthalene	ppb	<5.000
10/1/2010	1335	2-Chlorophenol	ppb	<5.000
10/1/2010	1335	2Methyl46dinitrophen	ppb	<5.000
10/1/2010	1335	2-Nitrophenol	ppb	<5.000
10/1/2010	1335	33-Dichlorobenzidine	ppb	<5.000
10/1/2010	1335	4Bromophenphenether	ppb	<5.000
10/1/2010	1335	4Chloro3methylphenol	ppb	<5.000
10/1/2010	1335	4Chlorophenphenether	ppb	<5.000
10/1/2010	1335	4-Nitrophenol	ppb	<5.000
10/1/2010	1335	Acenaphthene	ppb	<5.000
10/1/2010	1335	Acenaphthylene	ppb	<5.000
10/1/2010	1335	Anthracene	ppb	<5.000
10/1/2010	1335	Benzidine	ppb	<5.000
10/1/2010	1335	Benzo(a)anthracene	ppb	<5.000
10/1/2010	1335	Benzo(a)pyrene	ppb	<5.000
10/1/2010	1335	Benzo(b)fluoranthene	ppb	<5.000
10/1/2010	1335	Benzo(g,h,i)perylene	ppb	<5.000
10/1/2010	1335	Benzo(k)fluoranthene	ppb	<5.000
10/1/2010	1335	bis2chloroethoxymeth	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1410	124-Trichlorobenzene	ppb	<5.000
10/1/2010	1410	1,2-Dichlorobenzene	ppb	<5.000
10/1/2010	1410	12-Diphenylhydrazine	ppb	<5.000
10/1/2010	1410	1,3-Dichlorobenzene	ppb	<5.000
10/1/2010	1410	1,4-Dichlorobenzene	ppb	<5.000
10/1/2010	1410	246-Trichlorophenol	ppb	<5.000
10/1/2010	1410	2,4-Dichlorophenol	ppb	<5.000
10/1/2010	1410	2,4-Dimethylphenol	ppb	<5.000
10/1/2010	1410	2,4-Dinitrophenol	ppb	<5.000
10/1/2010	1410	2,4-Dinitrotoluene	ppb	<5.000
10/1/2010	1410	2,6-Dinitrotoluene	ppb	<5.000
10/1/2010	1410	2-Chloronaphthalene	ppb	<5.000
10/1/2010	1410	2-Chlorophenol	ppb	<5.000
10/1/2010	1410	2Methyl46dinitrophen	ppb	<5.000
10/1/2010	1410	2-Nitrophenol	ppb	<5.000
10/1/2010	1410	33-Dichlorobenzidine	ppb	<5.000
10/1/2010	1410	4Bromophenphenether	ppb	<5.000
10/1/2010	1410	4Chloro3methylphenol	ppb	<5.000
10/1/2010	1410	4Chlorophenphenether	ppb	<5.000
10/1/2010	1410	4-Nitrophenol	ppb	<5.000
10/1/2010	1410	Acenaphthene	ppb	<5.000
10/1/2010	1410	Acenaphthylene	ppb	<5.000
10/1/2010	1410	Anthracene	ppb	<5.000
10/1/2010	1410	Benzidine	ppb	<5.000
10/1/2010	1410	Benzo(a)anthracene	ppb	<5.000
10/1/2010	1410	Benzo(a)pyrene	ppb	<5.000
10/1/2010	1410	Benzo(b)fluoranthene	ppb	<5.000
10/1/2010	1410	Benzo(g,h,i)perylene	ppb	<5.000
10/1/2010	1410	Benzo(k)fluoranthene	ppb	<5.000
10/1/2010	1410	bis2chloroethoxymeth	ppb	<5.000

All samples are from CSO Wet weather Overflow at Esten Street (NBC CSO # 219)

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1300	bis2chloroethylether	ppb	<5.000
10/1/2010	1300	bis2chloroisoproethe	ppb	<5.000
10/1/2010	1300	bis2ethylhexylphthal	ppb	<5.000
10/1/2010	1300	Butylbenzylphthalate	ppb	<5.000
10/1/2010	1300	Chrysene	ppb	<5.000
10/1/2010	1300	Dibenzoahanthracene	ppb	<5.000
10/1/2010	1300	Diethylphthalate	ppb	<5.000
10/1/2010	1300	Dimethylphthalate	ppb	<5.000
10/1/2010	1300	di-n-butylphthalate	ppb	<5.000
10/1/2010	1300	Di-n-octylphthalate	ppb	<5.000
10/1/2010	1300	Fluoranthene	ppb	<5.000
10/1/2010	1300	Fluorene	ppb	<5.000
10/1/2010	1300	Hexachlorobenzene	ppb	<5.000
10/1/2010	1300	Hexachlorobutadiene	ppb	<5.000
10/1/2010	1300	Hexachloroethane	ppb	<5.000
10/1/2010	1300	Hexaclcyclopentadien	ppb	<5.000
10/1/2010	1300	Indeno(123-cd)pyrene	ppb	<5.000
10/1/2010	1300	Isophorone	ppb	<5.000
10/1/2010	1300	Naphthalene	ppb	<5.000
10/1/2010	1300	Nitrobenzene	ppb	<5.000
10/1/2010	1300	Nnitrosodimethylamin	ppb	<5.000
10/1/2010	1300	Nnitrosodinpropylami	ppb	<5.000
10/1/2010	1300	Nnitrosodiphenylamin	ppb	<5.000
10/1/2010	1300	Pentachlorophenol	ppb	<5.000
10/1/2010	1300	Phenanthrene	ppb	<5.000
10/1/2010	1300	Phenol	ppb	<5.000
10/1/2010	1300	Pyrene	ppb	<5.000
10/1/2010	1300	Fecal	MPN/10	>24000000

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1335	bis2chloroethylether	ppb	<5.000
10/1/2010	1335	bis2chloroisoproethe	ppb	<5.000
10/1/2010	1335	bis2ethylhexylphthal	ppb	<5.000
10/1/2010	1335	Butylbenzylphthalate	ppb	<5.000
10/1/2010	1335	Chrysene	ppb	<5.000
10/1/2010	1335	Dibenzoahanthracene	ppb	<5.000
10/1/2010	1335	Diethylphthalate	ppb	<5.000
10/1/2010	1335	Dimethylphthalate	ppb	<5.000
10/1/2010	1335	di-n-butylphthalate	ppb	<5.000
10/1/2010	1335	Di-n-octylphthalate	ppb	<5.000
10/1/2010	1335	Fluoranthene	ppb	<5.000
10/1/2010	1335	Fluorene	ppb	<5.000
10/1/2010	1335	Hexachlorobenzene	ppb	<5.000
10/1/2010	1335	Hexachlorobutadiene	ppb	<5.000
10/1/2010	1335	Hexachloroethane	ppb	<5.000
10/1/2010	1335	Hexaclcyclopentadien	ppb	<5.000
10/1/2010	1335	Indeno(123-cd)pyrene	ppb	<5.000
10/1/2010	1335	Isophorone	ppb	<5.000
10/1/2010	1335	Naphthalene	ppb	<5.000
10/1/2010	1335	Nitrobenzene	ppb	<5.000
10/1/2010	1335	Nnitrosodimethylamin	ppb	<5.000
10/1/2010	1335	Nnitrosodinpropylami	ppb	<5.000
10/1/2010	1335	Nnitrosodiphenylamin	ppb	<5.000
10/1/2010	1335	Pentachlorophenol	ppb	<5.000
10/1/2010	1335	Phenanthrene	ppb	<5.000
10/1/2010	1335	Phenol	ppb	<5.000
10/1/2010	1335	Pyrene	ppb	<5.000
10/1/2010	1335	Fecal	MPN/10	>24000000

Sample Date	Sample Time	Parameter	Units	Result
10/1/2010	1410	bis2chloroethylether	ppb	<5.000
10/1/2010	1410	bis2chloroisoproethe	ppb	<5.000
10/1/2010	1410	bis2ethylhexylphthal	ppb	<5.000
10/1/2010	1410	Butylbenzylphthalate	ppb	<5.000
10/1/2010	1410	Chrysene	ppb	<5.000
10/1/2010	1410	Dibenzoahanthracene	ppb	<5.000
10/1/2010	1410	Diethylphthalate	ppb	<5.000
10/1/2010	1410	Dimethylphthalate	ppb	<5.000
10/1/2010	1410	di-n-butylphthalate	ppb	<5.000
10/1/2010	1410	Di-n-octylphthalate	ppb	<5.000
10/1/2010	1410	Fluoranthene	ppb	<5.000
10/1/2010	1410	Fluorene	ppb	<5.000
10/1/2010	1410	Hexachlorobenzene	ppb	<5.000
10/1/2010	1410	Hexachlorobutadiene	ppb	<5.000
10/1/2010	1410	Hexachloroethane	ppb	<5.000
10/1/2010	1410	Hexaclcyclopentadien	ppb	<5.000
10/1/2010	1410	Indeno(123-cd)pyrene	ppb	<5.000
10/1/2010	1410	Isophorone	ppb	<5.000
10/1/2010	1410	Naphthalene	ppb	<5.000
10/1/2010	1410	Nitrobenzene	ppb	<5.000
10/1/2010	1410	Nnitrosodimethylamin	ppb	<5.000
10/1/2010	1410	Nnitrosodinpropylami	ppb	<5.000
10/1/2010	1410	Nnitrosodiphenylamin	ppb	<5.000
10/1/2010	1410	Pentachlorophenol	ppb	<5.000
10/1/2010	1410	Phenanthrene	ppb	<5.000
10/1/2010	1410	Phenol	ppb	<5.000
10/1/2010	1410	Pyrene	ppb	<5.000
10/1/2010	1410	Fecal	MPN/10	>2400000

CSO Wet Weather Overflow at Sheridan Street NBC CSO #54

Sample Date	Sample Time	Paramater	Displayunits	Displayvalue
12/1/2010	1900	Arsenic	ppb	0.926
12/1/2010	1900	Molybdenum	ppb	1.67
12/1/2010	1900	Selenium	ppb	<1.5
12/1/2010	1900	Aluminum	ppb	963
12/1/2010	1900	Cadmium	ppb	<2.5
12/1/2010	1900	Chromium	ppb	<10
12/1/2010	1900	Copper	ppb	92.1
12/1/2010	1900	Iron	ppb	1370
12/1/2010	1900	Lead	ppb	38.4
12/1/2010	1900	Nickel	ppb	15
12/1/2010	1900	Silver	ppb	<4.0
12/1/2010	1900	Zinc	ppb	91.1

Sample Date	Sample Time	Paramater	Displayunits	Displayvalue
12/1/2010	2000	Biochemical Oxygen Demand	ppm	28
12/1/2010	2000	Arsenic	ppb	0.659
12/1/2010	2000	Molybdenum	ppb	0.334
12/1/2010	2000	Selenium	ppb	<1.5
12/1/2010	2000	Aluminum	ppb	161
12/1/2010	2000	Cadmium	ppb	<2.5
12/1/2010	2000	Chromium	ppb	<10
12/1/2010	2000	Copper	ppb	11.1
12/1/2010	2000	Iron	ppb	224
12/1/2010	2000	Lead	ppb	<10
12/1/2010	2000	Nickel	ppb	<10
12/1/2010	2000	Silver	ppb	<4.0
12/1/2010	2000	Zinc	ppb	26.1
12/1/2010	2000	Ammonia	ppm-N	1.09
12/1/2010	2000	Nitrite (NO2)	ppm-N	0.0202
12/1/2010	2000	Total Nitrate-Nitrite	ppm-N	0.181
12/1/2010	2000	TKN	ppm-N	1.5
12/1/2010	2000	Total Phosphorus-P	ppm	0.401
12/1/2010	2000	Total Suspended Solids	ppm	36

Sample Date	Sample Time	Paramater	Displayunits	Displayvalue
12/1/2010	2100	Biochemical Oxygen Demand	ppm	37.55
12/1/2010	2100	Arsenic	ppb	0.544
12/1/2010	2100	Molybdenum	ppb	0.358
12/1/2010	2100	Selenium	ppb	<1.5
12/1/2010	2100	Aluminum	ppb	100
12/1/2010	2100	Cadmium	ppb	<2.5
12/1/2010	2100	Chromium	ppb	<10
12/1/2010	2100	Copper	ppb	10.5
12/1/2010	2100	Iron	ppb	153
12/1/2010	2100	Lead	ppb	<10
12/1/2010	2100	Nickel	ppb	<10
12/1/2010	2100	Silver	ppb	<4.0
12/1/2010	2100	Zinc	ppb	23.3
12/1/2010	2100	Ammonia	ppm-N	1.36
12/1/2010	2100	Nitrite (NO2)	ppm-N	0.0192
12/1/2010	2100	Total Nitrate-Nitrite	ppm-N	0.217
12/1/2010	2100	TKN	ppm-N	1.52
12/1/2010	2100	Total Phosphorus-P	ppm	0.483
12/1/2010	2100	Total Suspended Solids	ppm	44

Table 32: CSO Wet Weather Overflow at Sheridan Street NBC CSO #54