Narragansett Bay Commission 2011 Data Report

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

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Narragansett Bay Commission
Environmental Monitoring and Data Analysis Section 2011Data Report

Introduction

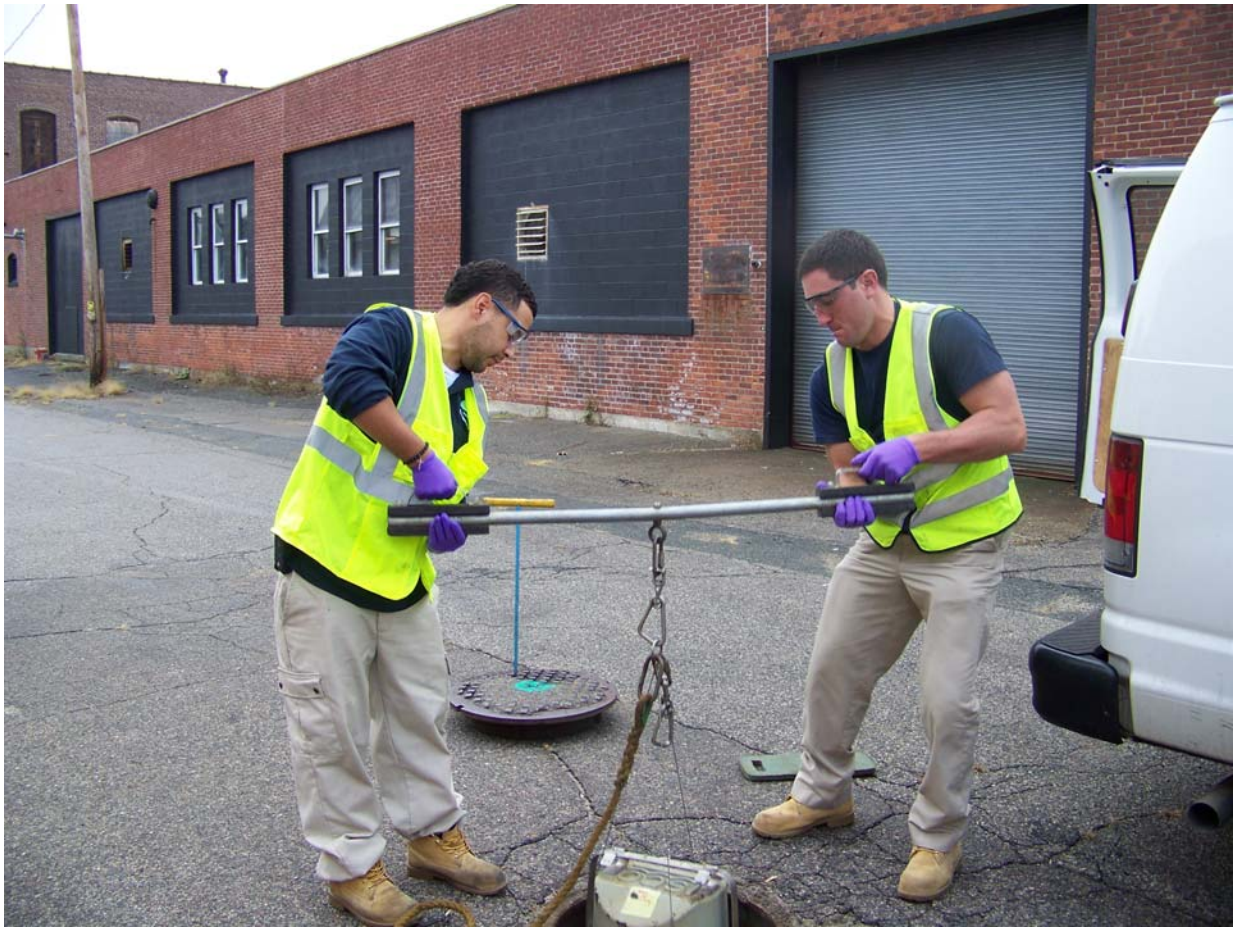
Field's Point and Bucklin Point Plant Data

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.



NBC EMDA staff Installing an Industrial Manhole Sampler

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 daily flow to the facility of 48.7 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 daily flow to the facility of 22.1 MGD. During 1999, supervisory management of this plant was privatized to Professional Services Group (PSG), and is currently managed by Suez Environment/United Water. 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 Preparing Oil & Grease Samples for Analysis

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 the effects of NBC CSOs on this area of the bay and as support to NBC Engineering staff to assess the effectiveness of the CSO abatement tunnel project, river and upper bay monitoring for nutrients to assess the impact of NBC nutrient removal upgrades, 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 nutrient removal and ultraviolet disinfection.

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;
- Bimonthly sampling of rivers entering the upper bay from Massachusetts and Rhode Island for nutrients;
- Sampling of 6 locations at surface and bottom in the Providence and Seekonk Rivers for nutrients;
- Mapping of the Providence and Seekonk Rivers for chlorophyll, DO, temperature and salinity
- 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 2011 EMDA monitoring data.

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 26,442 samples during 2011. 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 2011, the Laboratory generated 103,911 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, Jonathan Isaza, 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

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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 26,442 samples and the NBC lab analyzed these samples for 103,911 parameters during 2011. WWTF sampling data for 2011 is attached and can be found in Tables 1–37. 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 2011 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 2011 can be found in the attached Tables 5-12.

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 2011 can be found in Tables 13 and 14.

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 2011 can be found in the attached Table 15.

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 2011, 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 2011 can be found in Tables 16 and 17.

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 2011 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 2011 can be found in attached Tables 18 and 19.

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 2011 can be found in attached Tables 20-23.

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 2011 can be found in attached Tables 24 and 25.

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 2011, 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 2011. 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 2011 can be found in Table 26.

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 1,639 individual sample bottles from industrial users within both service districts during 2011. These 1,639 sample bottles were analyzed for numerous parameters and resulted in 234 sets of industrial user sample results. Industrial user data results for 2011 can be found in Table 27.

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 2011, 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 2011 can be found in Tables 28 and 29.

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. Receiving water monitoring conducted by the NBC includes sampling the surrounding urban rivers and upper bay as well as some of the rivers that enter the upper bay from Massachusetts. This monitoring data is vital to determining the impact of NBC effluent on the river and bay ecosystems. This data will be useful in evaluating the success of 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 2011, 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 loading 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 these receiving waters. 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. The NBC has been conducting fecal coliform sampling in the urban rivers and upper bay for several years 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 that cause these outfalls to discharge. The NBC has embarked on an historic public works project to eliminate the negative impact that CSOs can 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 overall health of the Bay, 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 constructed at the Bucklin Point facility as well as planned future facility upgrades at both the Bucklin Point and Field's Point facilities. 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 2011 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 2011 River and Bay Nutrient sampling can be found in the attached Table 30.

Figure 1: NBC River Nutrient Sampling Stations

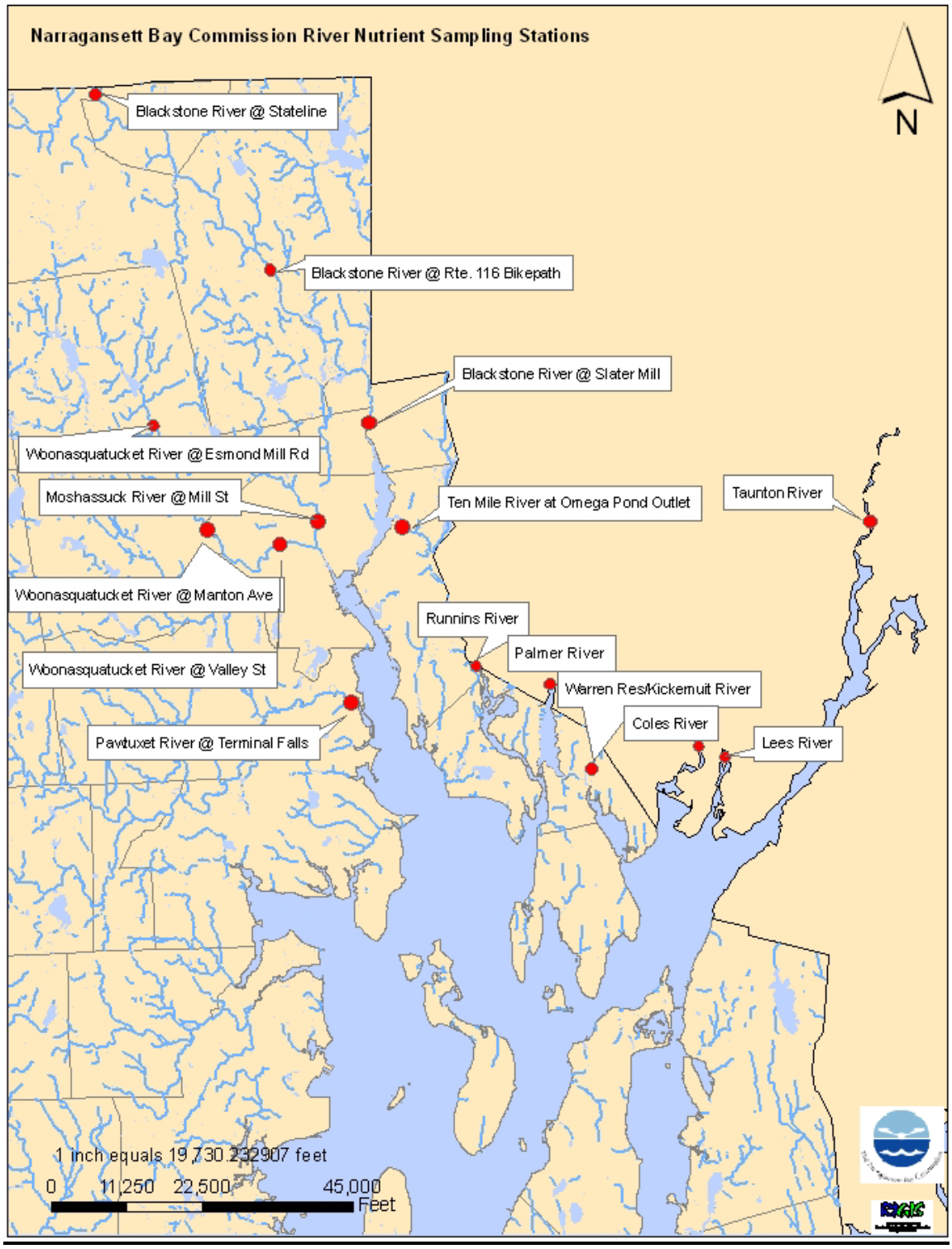
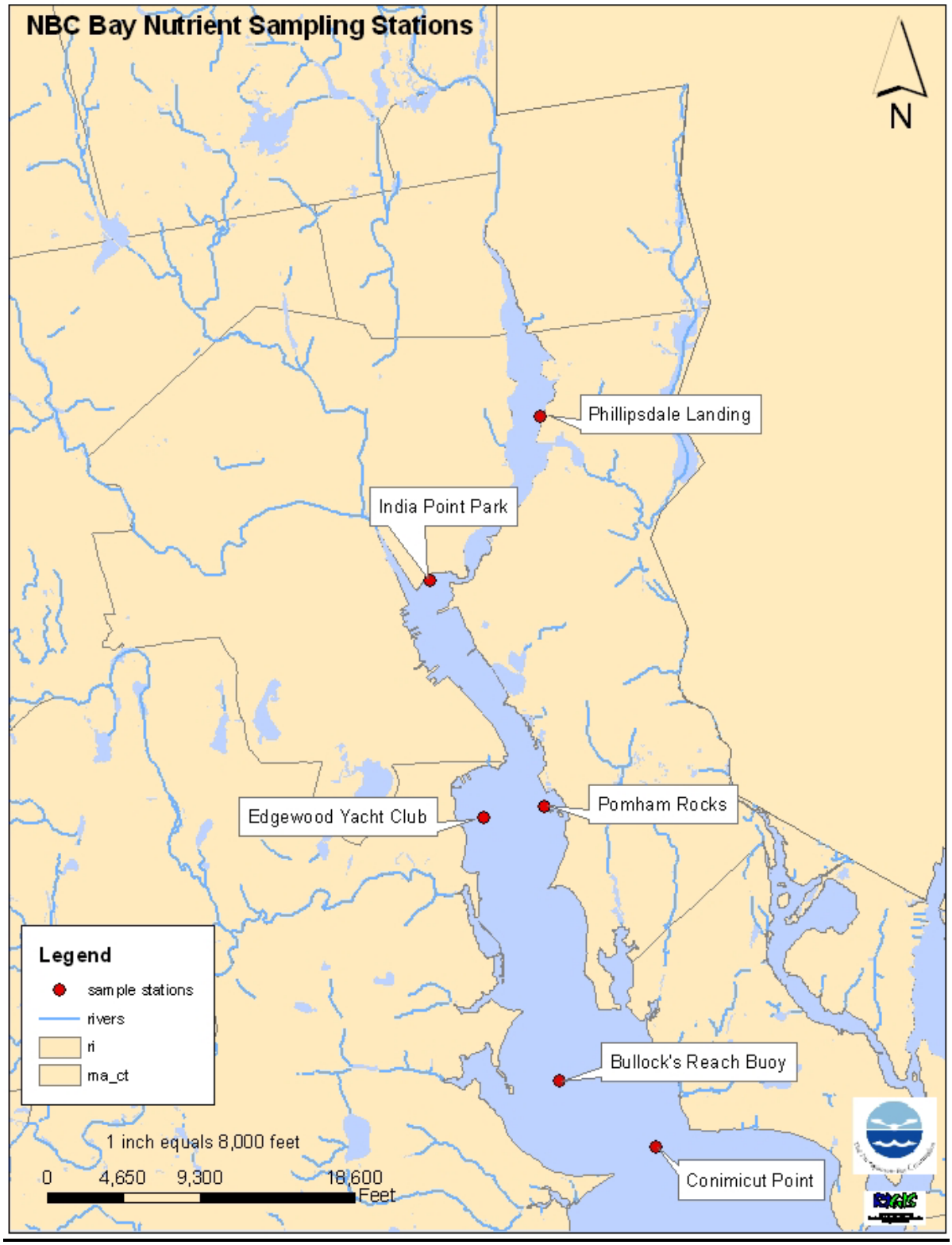


Figure 2: NBC Bay Nutrient Sampling Locations



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, four sites on the West River, and one site each on the Pawtuxet, Providence, and Seekonk Rivers. Additional locations were added on the West River in 2011 to investigate the source of high fecal results seen in that area. 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. During 2011, 1,735 fecal coliform samples were collected and analyzed. 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 in 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.

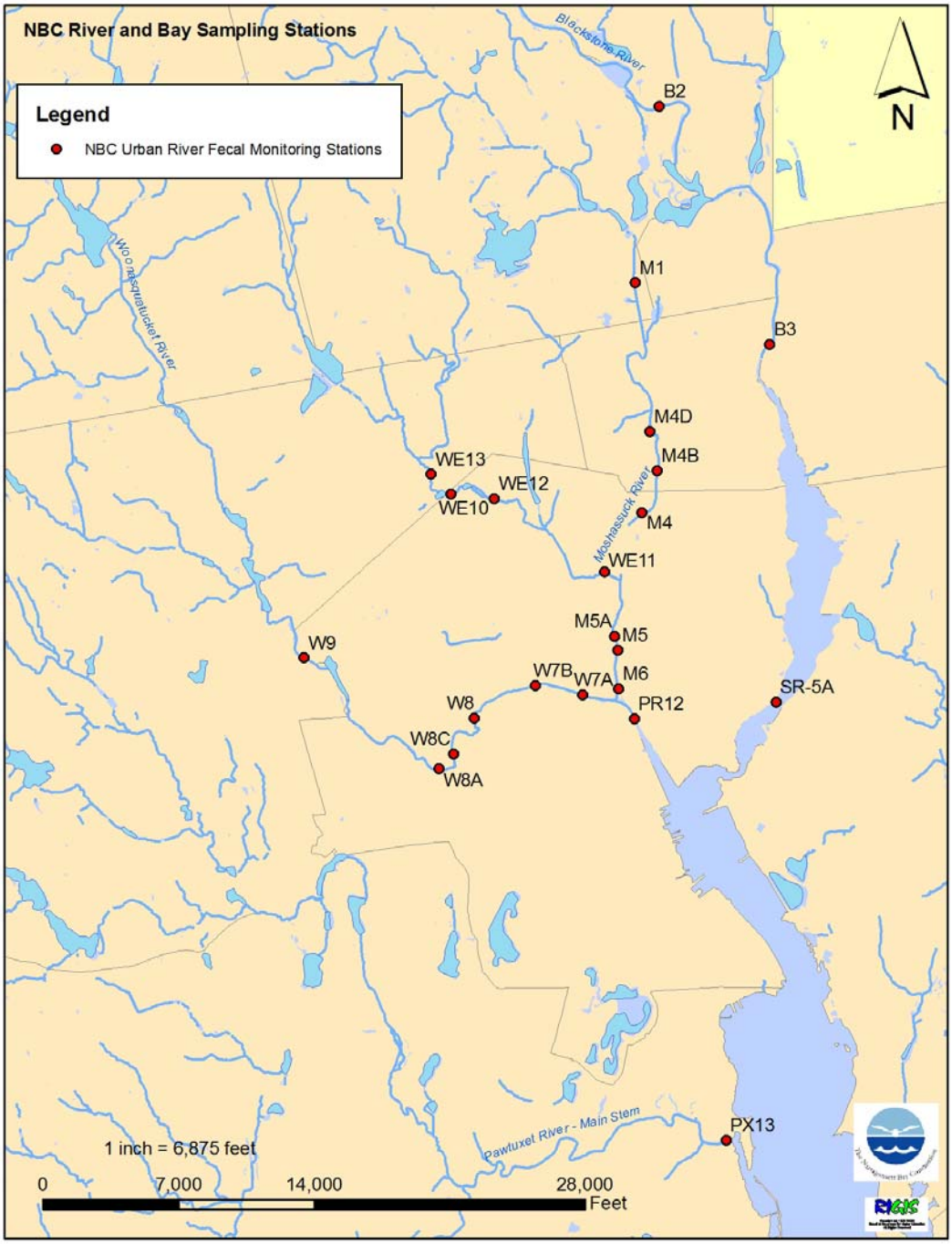
Water samples for fecal coliform analysis are collected from the center of a bridge or from a riverbank. A sterile, 120 mL fecal coliform sample container is used for the sample collection. Collections from bridges have the sample container placed in an open-ended brass cylinder and held in place with 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 31. Data for the Blackstone, Moshassuck, and Pawtuxet Rivers can be found in the attached Table 32.

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



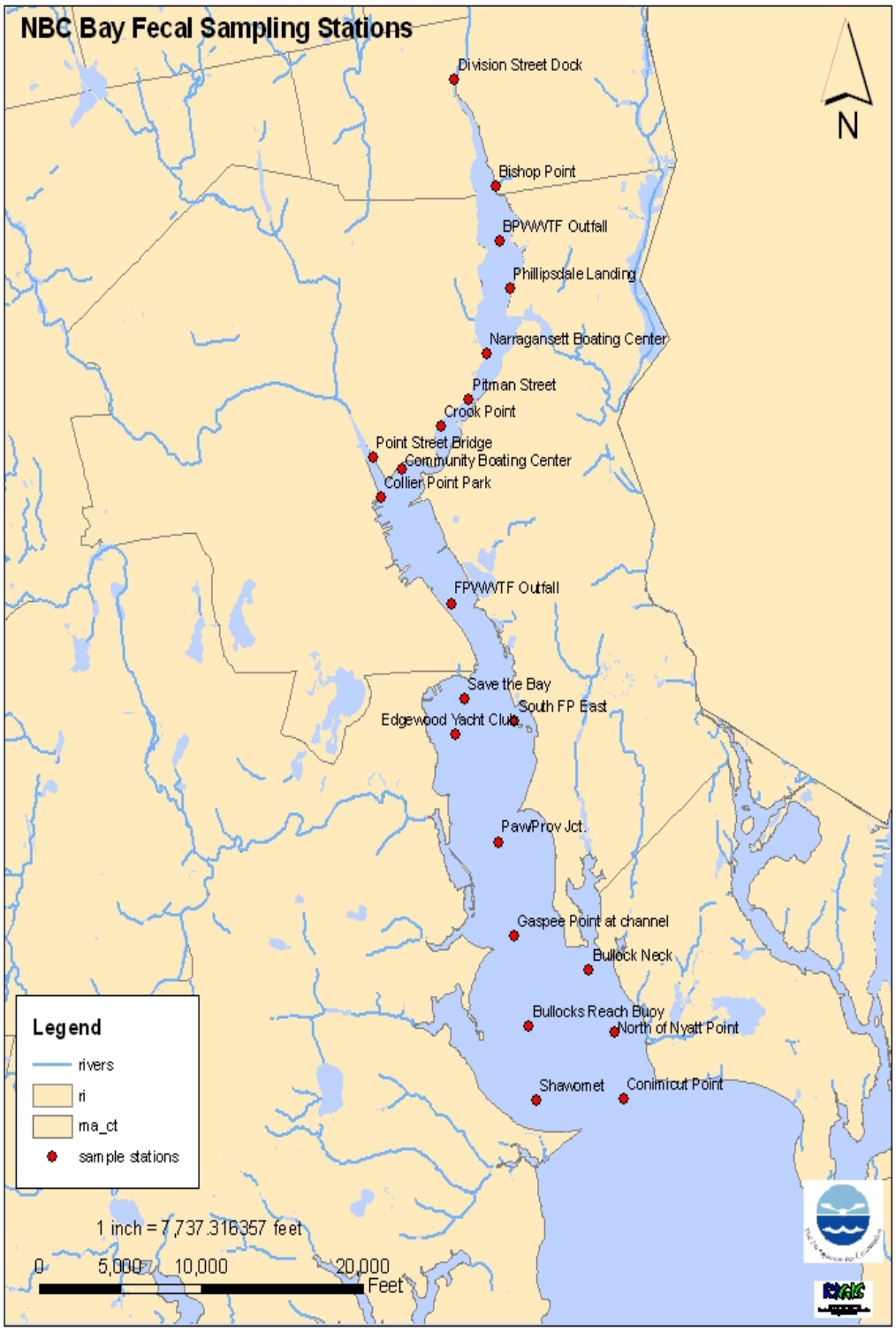
Bay Pathogen Monitoring

Fecal coliform sampling in the Providence and Seekonk Rivers began in 2003 in response to the need to understand the spatial and temporal impacts that discharges within these waterbodies have on Narragansett Bay as a whole. Routine sample collections for the analysis of fecal coliform are made biweekly, usually on Wednesdays or Thursdays, throughout the year, dependent on weather. All station samples are collected within a three-hour interval on the same day. In the event of a holiday, or any other unforeseen circumstance arising that would prevent the regular schedule, the sampling routine will 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 and Phillipsdale Landing stations. The duplicate samples for each site are collected simultaneously using a second 120 mL 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 2011, 524 bay fecal coliform samples and 142 *Enterococci* samples were collected and analyzed. Please refer to attached Table 33 for 2011 Bay fecal coliform data and to Table 34 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 CSO wet weather overflows during two rain events in 2011. 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 2011 wet weather sampling was conducted on February 25th at the North Diversion Structure, Outfall 2A, with a day of approximately 1.81 inches of rain as measured at the National weather Service at T.F.Green Airport; and again on October 27th at Outfalls 218 and 19A with 0.9 inches of rain. Outfall 2A is within the Bucklin Point service area and discharges into the Seekonk River and is tied to a sewer collection drainage basin that includes a mix of residential, industrial, and commercial uses. Outfall 218 discharges into the Seekonk River and 19A discharges into the Providence River and is linked to a large sewer drainage basin that is predominantly residential with commercial and industrial inputs. The data for CSO 2A can be found in Table 35, the data for CSO 19A can be found in Table 36 and data for CSO 218 can be found in Table 37.

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 outfall 218 and 19A, however due to the short duration of the North Diversion Structure discharge on February 25th, only two sets of samples were collected before the discharge ceased.

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

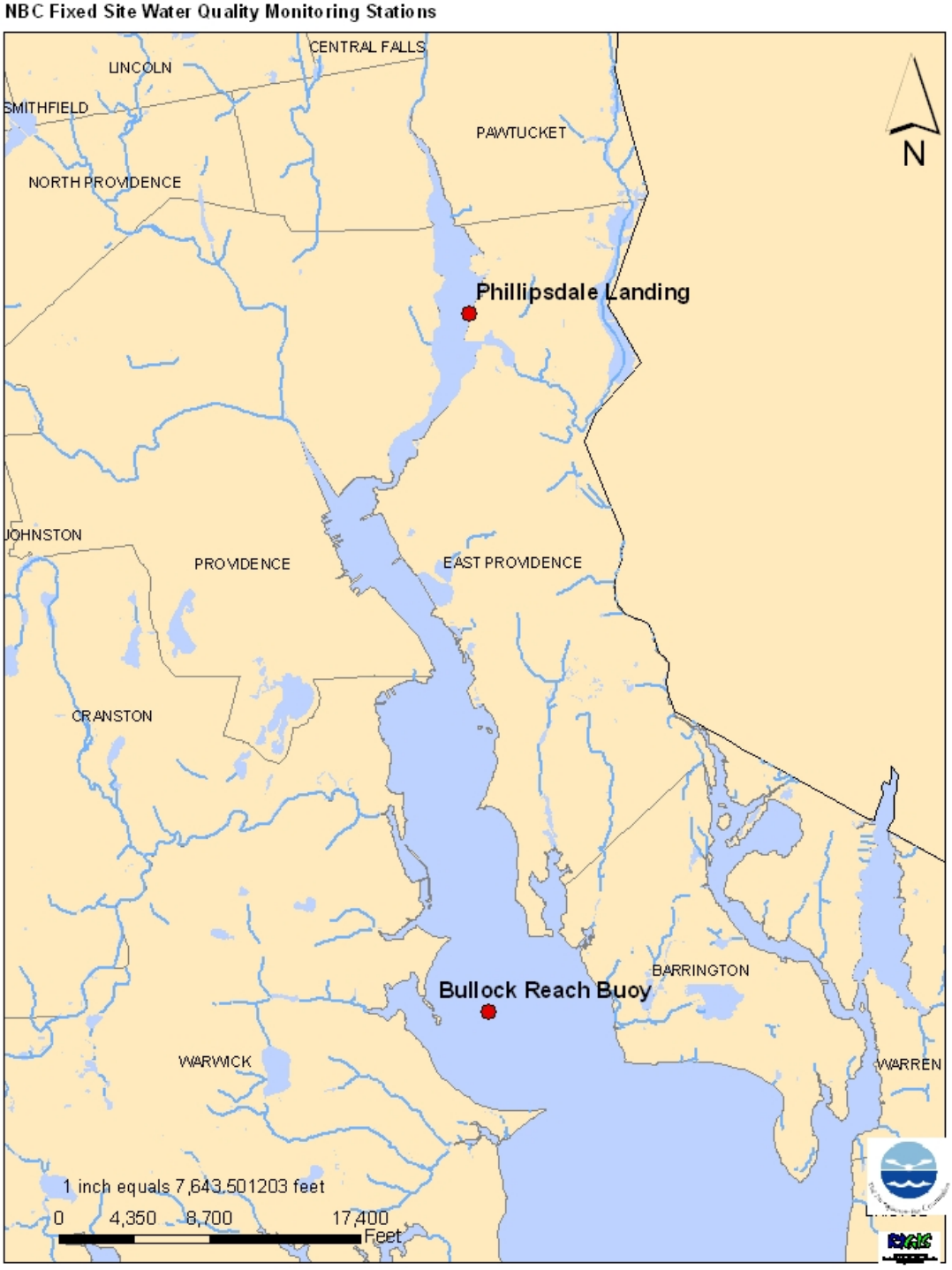
line telemetry systems, bay researchers can consistently track changes in the estuaries from remote locations, thus saving valuable resources and decreasing the response time to anomalous conditions. This data also provides a baseline of water quality across seasons and reveals yearly trends.

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 2011. 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 2011 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. In 2011, a brand new webpage was created by the NBC called Snapshot of Upper Narragansett Bay (http://snapshot.narrabay.com/app/; also see page 39 of this report for a full description). This website includes information and data for all of the NBC receiving water monitoring and presents monitoring station raw data in near real-time and in an easy-to-use and easy-to-understand format, including graphs and downloadable data tables.

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 2011 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 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 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. The buoy position is to the northwest of Conimicut Point at approximately 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 sonde that is brought out to the site, 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, and Interactive Oceanographics software, Streamline. For the 2011 season, the buoy was deployed in the water in early June and sondes began collecting data on June 6th until November 8th.

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, dissolved oxygen, 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 March 29th 2011and were removed on January 10th 2012 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 fact that these instruments are fastened to a dock 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. The position of the buoy is to the northwest of Conimicut Point at approximately 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 at NBC. The data can be uploaded and viewed by EMDA staff anytime in order to assess and troubleshoot problems. The data is also available hourly to the public on the NBC Snapshot website. 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.

NBC Snapshot of Upper Narragansett Bay Website

In 2011, a brand new webpage was created by the NBC called Snapshot of Upper Narragansett Bay (http://snapshot.narrabay.com/app/). The webpage includes information and data for all of the NBC receiving water monitoring, including a blog that is updated weekly with the most recent results of sampling events. Sampling procedures and charts showing data trends are presented for each monitoring initiative and tables with up-to-date monitoring results can be downloaded. The most recent data at the fixed water quality monitoring stations is displayed through dials and gauges (see Figure 6 below) that allow users to quickly assess current water quality conditions. An interactive chart wizard also allows users to choose which fixed site water quality parameters to chart and display and users can also choose parameters to display in table format, which can then be downloaded. The NBC Snapshot website represents a comprehensive look at water quality in upper Narragansett Bay by providing the general public with near real-time data and a wide range of information regarding water quality in Narragansett Bay.

Figure 6: NBC's Snapshot of Upper Narragansett Bay Website

Field's Point 2011 Wastewater 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)
1/1/2011	24	36.89	130	151.06	11	15.40
1/2/2011	14	46.73	152	161.55	14	16.71
1/3/2011	42	40.86	103	154.34	20	17.60
1/4/2011	39	36.11	112	167.66	12	16.46
1/5/2011	12	36.64	107	146.40	12	16.47
1/6/2011	26	36.65	120	158.12	13	11.94
1/7/2011	14	35.35	119	147.30	11	15.36
1/8/2011	7	35.29	141	178.57	15	15.08
1/9/2011	30	34.21	112	147.69	16	16.48
1/10/2011	11	36.33	122	151.13	7	12.87
1/11/2011	10	35.53	139	176.06	20	16.38
1/12/2011	16	32.70	107	150.71	8	12.68
1/13/2011	37	36.06	133	174.10	29	21.92
1/14/2011	43	33.10	103	168.02	35	22.08
1/15/2011	18	32.89	123	173.71	18	17.10
1/16/2011	20	35.68	112	155.52	9	14.37
1/17/2011	11	33.19	151	197.73	12	18.96
1/18/2011	62	56.80	163	162.10	13	21.90
1/19/2011	96	63.75	99	114.72	17	19.47
1/20/2011	10	50.64	82	102.06	9	16.41
1/21/2011	5	39.05	115	181.48	10	15.32
1/22/2011	5	37.35	165	146.54	18	18.86
1/23/2011	2	37.22	142	182.85	12	18.03
1/24/2011	2	36.51	132	169.67	13	16.67
1/25/2011	2	37.65	143	162.70	10	12.72
1/26/2011	3	36.02	130	161.28	13	16.64
1/27/2011	5	36.99	117	160.56	12	18.92
1/28/2011	12	36.94	110	161.02	12	16.43
1/29/2011	26	37.24	119	161.97	16	16.45
1/30/2011	39	35.52	103	153.50	14	16.86
1/31/2011	30	33.31	115	159.37	14	13.91
2/1/2011	23	36.49	131	187.44	10	10.28
2/2/2011	11	49.52	165	186.91	17	14.58
2/3/2011	23	37.33	101	180.40	15	14.22
2/4/2011	17	36.96	107	157.41	8	13.09
2/5/2011	4	55.56	139	145.06	14	11.54
2/6/2011	23	59.28	133	123.62	16	12.57
2/7/2011	20	57.90	113	154.04	12	12.10
2/8/2011	10	51.89	101	151.88	12	11.52
2/9/2011	15	40.88	98	157.10	10	10.51
2/10/2011	26	45.89	98	142.09	9	10.28
2/11/2011	8	41.19	98	152.37	7	14.56
2/12/2011	26	41.24	105	175.17	15	14.07
2/13/2011	59	41.47	90	127.77	7	11.00
2/14/2011	17	53.43	129	136.09	11	10.98
2/15/2011	40	39.29	133	172.48	14	11.98

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

Field's Point 2011 Wastewater 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)
2/16/2011	34	45.04	107	169.02	11	10.01
2/17/2011	10	47.96	110	155.47	4	10.97
2/18/2011	20	55.63	113	132.88	5	10.81
2/19/2011	20	48.11	117	144.38	6	10.75
2/20/2011	34	45.74	88	146.24	9	9.91
2/21/2011	50	49.67	107	163.90	11	10.81
2/22/2011	50	46.14	122	155.26	18	18.55
2/23/2011	28	43.40	129	180.72	14	12.64
2/24/2011	11	45.50	190	184.15	14	12.24
2/25/2011	29	78.53	143	92.74	8	11.78
2/26/2011	26	70.65	162	93.05	12	11.91
2/27/2011	19	71.44	49	81.43	14	16.43
2/28/2011	18	70.16	67	87.03	8	13.11
3/1/2011	26	69.83	53	79.73	9	12.83
3/2/2011	20	71.14	56	67.68	7	12.72
3/3/2011	17	68.74	64	90.76	9	13.09
3/4/2011	7	59.90	83	109.04	6	13.09
3/5/2011	6	52.65	81	132.86	9	12.49
3/6/2011	7	61.59	99	106.43	8	11.16
3/7/2011	20	70.36	62	93.13	9	10.98
3/8/2011	14	71.00	53	88.32	8	13.49
3/9/2011	9	58.95	74	101.92	9	12.03
3/10/2011	12	56.06	96	112.82	10	10.82
3/11/2011	13	65.72	79	103.06	7	13.37
3/12/2011	6	54.43	97	113.36	12	14.28
3/13/2011	12	50.80	73	104.90	12	13.17
3/14/2011	13	48.65	101	128.19	12	12.89
3/15/2011	37	49.17	99	133.13	10	9.53
3/16/2011	16	63.33	93	112.24	12	13.16
3/17/2011	21	57.70	94	117.10	8	10.58
3/18/2011	26	47.45	94	137.28	6	10.23
3/19/2011	17	46.54	117	172.42	7	11.95
3/20/2011	26	45.86	102	129.05	7	7.09
3/21/2011	17	55.63	139	145.31	9	11.33
3/22/2011	29	46.83	102	134.94	9	9.90
3/23/2011	16	45.47	86	107.11	10	10.05
3/24/2011	42	45.55	110	149.49	11	12.39
3/25/2011	30	42.58	121	173.09	5	10.22
3/26/2011	71	42.99	123	167.82	12	13.18
3/27/2011	81	43.41	105	132.66	7	10.30
3/28/2011	19	41.48	124	162.40	12	12.23
3/29/2011	29	41.05	121	148.43	7	9.52
3/30/2011	24	41.65	115	175.43	14	16.86
3/31/2011	80	55.33	148	157.77	14	13.54
4/1/2011	94	59.67	92	102.40	12	13.54
4/2/2011	81	44.07	92	166.10	10	14.37
4/3/2011	37	41.54	101	139.87	11	11.49

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

Field's Point 2011 Wastewater 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)
4/4/2011	20	44.98	136	159.83	10	9.48
4/5/2011	62	45.90	121	168.49	18	21.97
4/6/2011	92	38.84	131	173.73	13	12.44
4/7/2011	59	41.63	155	174.88	11	12.08
4/8/2011	46	38.68	136	169.30	6	12.24
4/9/2011	62	39.28	123	199.92	13	12.36
4/10/2011	49	39.38	129	191.78	12	10.99
4/11/2011	63	38.92	146	181.93	18	13.63
4/12/2011	102	50.46	173	193.08	12	13.12
4/13/2011	68	65.19	110	82.79	14	9.91
4/14/2011	130	66.84	69	95.91	7	8.06
4/15/2011	49	66.74	66	107.40	8	10.00
4/16/2011	63	69.90	89	106.41	9	12.23
4/17/2011	57	70.76	76	101.40	10	11.41
4/18/2011	49	70.16	76	102.29	12	20.13
4/19/2011	43	67.53	77	99.23	16	12.27
4/20/2011	34	69.31	81	106.70	12	11.95
4/21/2011	22	55.21	104	121.04	13	9.44
4/22/2011	30	47.81	107	146.04	9	11.64
4/23/2011	26	63.69	77	106.55	9	10.19
4/24/2011	34	63.89	86	105.28	7	9.17
4/25/2011	28	46.33	117	129.39	15	10.21
4/26/2011	25	48.35	107	142.64	10	9.96
4/27/2011	77	46.39	121	148.48	12	12.68
4/28/2011	30	55.22	147	141.44	15	12.38
4/29/2011	81	49.78	97	139.42	8	11.46
4/30/2011	92	45.07	137	219.68	11	14.23
5/1/2011	230	43.33	113	158.72	15	14.21
5/2/2011	107	42.91	129	198.20	16	15.20
5/3/2011	535	41.95	115	160.10	15	15.06
5/4/2011	297	51.10	153	159.90	18	18.66
5/5/2011	120	41.86	105	187.43	12	14.78
5/6/2011	102	42.46	113	168.96	12	13.97
5/7/2011	83	42.77	132	163.70	17	16.35
5/8/2011	23	38.91	117	160.97	10	16.04
5/9/2011	66	41.21	121	166.08	15	17.33
5/10/2011	63	40.61	121	183.35	17	18.45
5/11/2011	25	38.76	139	192.37	15	18.92
5/12/2011	136	41.54	126	154.03	13	15.07
5/13/2011	34	38.76	143	167.85	16	14.23
5/14/2011	49	41.51	133	171.74	18	17.46
5/15/2011	197	56.93	159	197.77	13	16.06
5/16/2011	11	48.03	99	138.94	10	14.11
5/17/2011	92	49.32	128	141.80	13	13.26
5/18/2011	97	48.34	128	160.04	14	13.32
5/19/2011	40	58.10	154	125.92	18	12.86
5/20/2011	46	60.96	81	115.53	8	11.28

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

Field's Point 2011 Wastewater 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)
5/21/2011	63	66.53	66	116.34	8	10.53
5/22/2011	49	53.86	84	121.64	8	8.18
5/23/2011	30	48.57	129	221.26	8	10.42
5/24/2011	63	48.35	95	138.52	5	9.08
5/25/2011	14	42.98	109	170.94	8	9.55
5/26/2011	81	42.49	107	185.81	11	14.70
5/27/2011	39	41.19	104	144.14	8	8.59
5/28/2011	81	40.53	117	154.84	16	12.69
5/29/2011	50	37.67	107	131.17	14	10.33
5/30/2011	158	38.98	114	168.84	14	14.40
5/31/2011	62	37.64	165	197.25	11	16.14
6/1/2011	223	40.04	120	202.81	13	16.00
6/2/2011	81	36.49	122	168.23	14	16.73
6/3/2011	132	37.76	123	176.47	10	13.64
6/4/2011	177	33.63	119	184.41	11	15.16
6/5/2011	83	36.58	151	184.87	21	14.12
6/6/2011	34	37.34	155	205.26	12	13.12
6/7/2011	25	35.10	140	190.93	18	17.11
6/8/2011	49	44.14	176	207.61	13	15.20
6/9/2011	32	60.81	133	139.26	16	16.62
6/10/2011	20	46.71	106	125.83	10	11.31
6/11/2011	25	55.85	120	155.15	13	16.62
6/12/2011	50	57.76	92	118.48	11	10.20
6/13/2011	63	63.28	75	108.68	10	13.76
6/14/2011	122	53.68	95	137.03	12	13.52
6/15/2011	21	37.80	128	166.49	14	12.06
6/16/2011	63	38.07	125	161.91	14	13.33
6/17/2011	50	41.42	153	174.17	14	13.54
6/18/2011	30	36.70	117	161.01	8	14.67
6/19/2011	63	36.65	141	166.37	14	13.60
6/20/2011	13	35.67	157	177.57	13	19.27
6/21/2011	20	35.84	143	170.92	12	13.86
6/22/2011	124	55.25	175	161.09	20	18.29
6/23/2011	26	58.08	93	116.40	14	12.19
6/24/2011	20	45.36	99	142.15	6	9.89
6/25/2011	20	35.22	109	164.06	11	13.50
6/26/2011	50	37.54	129	164.09	9	13.59
6/27/2011	39	34.95	141	193.68	13	16.94
6/28/2011	13	37.72	157	215.46	9	13.28
6/29/2011	27	36.39	145	195.00	19	16.00
6/30/2011	18	34.84	157	212.23	11	12.57
7/1/2011	17	34.95	138	179.26	12	14.75
7/2/2011	5	35.51	138	172.55	11	16.59
7/3/2011	7	32.57	131	199.53	12	16.71
7/4/2011	11	35.89	135	149.16	9	12.44
7/5/2011	11	35.45	137	178.04	14	14.94
7/6/2011	37	36.59	131	165.15	11	10.70

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

Field's Point 2011 Wastewater 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)
7/7/2011	10	34.03	136	157.69	14	10.16
7/8/2011	54	74.51	165	129.69	25	22.10
7/9/2011	33	66.35	55	103.22	7	10.10
7/10/2011	11	54.28	78	87.94	3	8.61
7/11/2011	9	59.70	84	117.37	7	9.24
7/12/2011	14	41.77	101	145.90	6	5.39
7/13/2011	4	49.01	146	153.88	14	11.37
7/14/2011	3	42.23	103	120.78	6	5.46
7/15/2011	2	36.54	135	156.11	11	7.54
7/16/2011	2	36.76	119	161.68	9	8.72
7/17/2011	2	34.31	121	188.42	5	8.00
7/18/2011	2	38.56	147	177.79	13	11.36
7/19/2011	2	35.83	126	159.62	8	8.37
7/20/2011	2	36.82	125	156.74	5	6.46
7/21/2011	2	37.34	128	229.58	8	7.94
7/22/2011	6	38.03	111	133.08	5	8.62
7/23/2011	2	38.76	150	180.27	5	8.51
7/24/2011	2	34.67	119	144.96	5	6.74
7/25/2011	3	35.27	143	175.05	8	9.64
7/26/2011	2	36.63	150	165.77	11	11.14
7/27/2011	3	33.80	125	197.85	11	10.76
7/28/2011	4	32.72	135	173.03	12	8.95
7/29/2011	4	35.14	160	175.37	12	8.50
7/30/2011	4	32.86	122	173.86	11	6.64
7/31/2011	3	32.80	141	171.74	13	6.68
8/1/2011	5	34.07	136	176.89	10	6.98
8/2/2011	7	33.92	135	178.00	8	7.13
8/3/2011	2	33.39	139	162.80	9	7.01
8/4/2011	5	33.24	151	198.95	9	7.90
8/5/2011	4	32.02	168	203.36	9	7.40
8/6/2011	7	39.59	176	196.38	15	8.01
8/7/2011	6	63.38	95	86.18	22	10.51
8/8/2011	3	59.37	84	102.87	17	11.46
8/9/2011	3	62.91	90	106.18	15	10.62
8/10/2011	2	57.30	82	118.21	12	8.68
8/11/2011	3	58.54	66	88.68	9	9.26
8/12/2011	3	34.75	129	177.58	8	6.83
8/13/2011	2	36.13	146	152.96	8	7.33
8/14/2011	2	36.51	145	163.50	12	7.79
8/15/2011	7	74.48	107	67.65	13	11.53
8/16/2011	4	65.94	59	84.14	12	13.01
8/17/2011	6	61.59	70	90.14	13	12.16
8/18/2011	4	46.91	110	114.85	10	7.55
8/19/2011	2	38.79	117	147.97	8	5.22
8/20/2011	3	38.69	115	134.80	9	8.05
8/21/2011	2	45.05	139	144.69	13	9.09
8/22/2011	2	40.57	103	148.17	9	8.04

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

Field's Point 2011 Wastewater 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)
8/23/2011	2	37.08	126	169.10	7	7.79
8/24/2011	3	34.96	132	153.56	8	6.74
8/25/2011	2	40.37	152	156.15	8	6.99
8/26/2011	4	38.06	117	143.85	8	6.74
8/27/2011	7	50.34	134	140.20	15	9.02
8/28/2011	10	67.27	103	62.85	12	8.46
8/29/2011	5	62.37	80	99.75	15	15.47
8/30/2011	6	52.17	98	124.12	9	9.23
8/31/2011	2	38.48	103	199.60	7	8.26
9/1/2011	3	38.73	115	134.53	8	5.84
9/2/2011	3	37.92	124	155.38	9	7.76
9/3/2011	7	36.95	142	180.30	6	6.91
9/4/2011	3	35.32	137	162.42	5	6.38
9/5/2011	3	39.44	144	196.32	8	5.77
9/6/2011	18	66.56	163	112.49	14	11.31
9/7/2011	13	67.99	95	89.64	12	9.25
9/8/2011	8	88.03	74	66.86	8	8.89
9/9/2011	3	69.84	64	84.43	10	10.60
9/10/2011	5	69.77	66	98.16	7	12.11
9/11/2011	5	67.82	65	93.44	7	12.11
9/12/2011	2	55.03	105	129.54	11	9.75
9/13/2011	4	46.13	147	141.67	10	11.54
9/14/2011	2	43.86	131	147.66	6	7.64
9/15/2011	2	49.00	141	145.66	11	11.93
9/16/2011	5	40.93	100	139.57	6	9.71
9/17/2011	3	40.12	117	156.14	7	9.22
9/18/2011	2	39.76	123	139.45	15	9.45
9/19/2011	3	40.06	142	167.83	7	10.60
9/20/2011	2	39.35	129	192.27	8	8.18
9/21/2011	2	40.54	147	153.74	12	10.44
9/22/2011	2	45.23	145	159.30	10	11.17
9/23/2011	5	60.00	121	123.09	14	15.83
9/24/2011	5	63.34	80	104.61	5	10.58
9/25/2011	3	51.76	109	109.05	16	9.02
9/26/2011	4	41.46	124	143.63	7	7.59
9/27/2011	2	42.21	142	154.38	9	7.55
9/28/2011	9	49.58	143	154.84	14	10.19
9/29/2011	3	59.93	102	104.24	11	13.12
9/30/2011	2	68.34	80	111.12	8	12.35
10/1/2011	7	69.52	69	110.47	10	10.39
10/2/2011	2	56.41	87	118.57	7	9.44
10/3/2011	4	53.78	97	124.77	6	10.74
10/4/2011	2	66.15	75	100.30	7	12.73
10/5/2011	2	55.73	87	117.70	6	10.58
10/6/2011	2	44.93	111	125.98	6	10.05
10/7/2011	6	45.58	115	136.86	8	8.71
10/8/2011	4	42.28	105	141.28	4	8.39

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

Field's Point 2011 Wastewater 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)
10/9/2011	3	40.49	103	140.59	8	7.86
10/10/2011	2	42.62	82	140.02	7	7.50
10/11/2011	3	41.40	117	153.17	9	5.89
10/12/2011	3	45.25	131	164.32	4	7.92
10/13/2011	7	61.36	99	122.77	16	13.48
10/14/2011	3	68.24	119	101.57	35	35.75
10/15/2011	3	56.52	80	119.04	10	18.23
10/16/2011	2	42.90	108	136.99	14	13.35
10/17/2011	2	42.89	107	150.89	13	14.04
10/18/2011	4	41.58	133	161.29	9	14.85
10/19/2011	4	72.47	91	95.58	14	25.41
10/20/2011	2	66.74	81	95.82	19	19.68
10/21/2011	12	69.53	68	91.80	17	28.15
10/22/2011	2	68.04	78	94.41	14	24.67
10/23/2011	2	53.24	103	124.32	13	18.95
10/24/2011	2	45.46	103	159.71	7	18.61
10/25/2011	5	46.15	101	141.81	7	22.66
10/26/2011	3	44.07	118	147.23	12	20.32
10/27/2011	6	69.04	91	106.52	10	18.96
10/28/2011	6	66.88	82	85.08	13	24.07
10/29/2011	17	72.44	60	88.80	16	19.12
10/30/2011	4	71.86	57	74.95	22	26.19
10/31/2011	4	61.75	68	119.67	16	26.14
11/1/2011	4	66.10	73	100.56	13	24.32
11/2/2011	3	60.51	79	113.40	14	22.49
11/3/2011	14	56.81	90	125.90	16	20.25
11/4/2011	6	49.65	106	151.95	21	26.76
11/5/2011	8	47.43	103	153.73	14	27.66
11/6/2011	14	46.17	103	146.53	22	26.00
11/7/2011	13	47.36	111	131.19	15	22.53
11/8/2011	2	43.72	111	147.57	18	26.18
11/9/2011	2	46.18	128	153.61	10	14.99
11/10/2011	7	61.08	118	132.20	12	23.69
11/11/2011	7	62.05	77	105.34	15	21.96
11/12/2011	3	56.57	89	121.67	9	20.22
11/13/2011	3	49.50	113	157.73	12	13.71
11/14/2011	2	43.81	113	140.83	16	17.57
11/15/2011	2	44.11	117	138.39	17	15.84
11/16/2011	2	57.47	169	157.80	11	15.67
11/17/2011	2	63.34	75	104.45	8	18.43
11/18/2011	3	59.11	81	93.43	10	17.24
11/19/2011	3	43.58	120	129.17	8	13.91
11/20/2011	2	44.38	113	141.17	13	12.39
11/21/2011	2	43.56	102	166.47	13	11.02
11/22/2011	2	54.83	127	133.46	15	14.31
11/23/2011	4	66.55	104	113.79	15	18.66
11/24/2011	2	64.55	85	114.72	15	15.17

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

Field's Point 2011 Wastewater 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)
11/25/2011	2	65.82	69	88.64	9	17.84
11/26/2011	3	64.89	85	89.47	11	19.13
11/27/2011	2	46.17	105	130.23	13	14.39
11/28/2011	2	47.58	143	150.96	10	8.73
11/29/2011	3	55.59	119	130.67	7	12.54
11/30/2011	6	61.96	129	117.42	10	11.50
12/1/2011	3	60.23	84	96.03	14	14.91
12/2/2011	2	46.57	113	142.37	8	14.09
12/3/2011	2	44.43	99	129.16	8	15.37
12/4/2011	2	45.75	107	141.87	7	12.82
12/5/2011	2	44.12	122	132.44	8	11.96
12/6/2011	2	50.46	145	135.25	9	11.80
12/7/2011	3	89.84	78	63.11	7	10.85
12/8/2011	7	80.01	65	83.38	9	17.37
12/9/2011	2	71.61	61	89.92	10	16.43
12/10/2011	2	70.76	74	93.17	8	17.54
12/11/2011	2	70.31	68	110.69	8	17.76
12/12/2011	4	69.84	76	100.36	9	18.43
12/13/2011	2	67.86	73	100.48	6	14.76
12/14/2011	3	56.70	85	116.12	9	14.45
12/15/2011	3	51.38	105	133.14	7	14.84
12/16/2011	2	50.20	92	120.26	6	14.66
12/17/2011	2	47.24	123	124.95	10	17.51
12/18/2011	2	44.69	102	124.11	10	14.92
12/19/2011	3	47.66	115	129.26	8	15.96
12/20/2011	3	44.69	104	144.71	13	23.68
12/21/2011	5	46.79	136	144.25	11	15.86
12/22/2011	2	50.80	117	140.95	7	12.70
12/23/2011	4	63.80	77	102.41	12	16.46
12/24/2011	3	43.91	119	161.64	7	14.04
12/25/2011	2	40.19	96	113.91	7	9.33
12/26/2011	2	42.51	110	145.07	7	13.50
12/27/2011	2	50.68	137	128.83	9	11.29
12/28/2011	3	55.28	75	220.23	9	14.13
12/29/2011	2	43.62	94	139.60	6	13.24
12/30/2011	2	42.48	150	151.50	6	11.82
12/31/2011	3	41.78	121	166.52	9	12.81

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

Bucklin Point 2011 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)
1/1/2011	5	17.23	197	238	3	3.88
1/2/2011	5	24.83	172	160	6	5.35
1/3/2011	17	17.87	205	232	4	4.05
1/4/2011	2	17.01	201	243	4	5.67
1/5/2011	6	16.69	197	210	6	5.24
1/6/2011	3	16.40	180	188	6	2.72
1/7/2011	6	16.44	263	263	3	3.78
1/8/2011	4	17.08	179	181	3	3.92
1/9/2011	3	16.39	185	188	3	3.59
1/10/2011	5	15.81	246	241	4	3.63
1/11/2011	4	15.39	275	220	6	4.04
1/12/2011	8	16.33	186	201	5	3.37
1/13/2011	4	16.13	233	242	7	4.29
1/14/2011	3	15.72	197	258	4	4.28
1/15/2011	3	16.08	212	216	12	4.72
1/16/2011	6	15.73	285	280	4	3.26
1/17/2011	2	15.76	199	251	3	4.58
1/18/2011	9	28.26	240	264	25	24.70
1/19/2011	60	30.04	188	142	14	11.70
1/20/2011	38	18.07	147	169	6	6.88
1/21/2011	24	17.10	159	239	5	5.38
1/22/2011	7	16.63	173	226	5	5.43
1/23/2011	22	16.39	157	200	5	4.76
1/24/2011	7	15.83	205	204	7	4.40
1/25/2011	6	17.20	220	210	6	5.21
1/26/2011	12	17.35	223	304	7	4.48
1/27/2011	17	17.03	190	217	8	6.93
1/28/2011	15	16.93	181	235	2	6.08
1/29/2011	12	17.29	217	213	6	6.23
1/30/2011	12	16.66	185	213	5	4.09
1/31/2011	14	15.86	273	298	7	6.29
2/1/2011	19	16.52	231	268	9	4.68
2/2/2011	18	22.13	443	301	13	11.19
2/3/2011	49	17.04	154	153	9	6.95
2/4/2011	44	16.06	160	204	7	6.79
2/5/2011	40	23.46	148	158	18	23.16
2/6/2011	127	29.76	221	283	57	59.19
2/7/2011	24	20.19	139	162	13	9.16
2/8/2011	29	25.09	197	168	12	10.20
2/9/2011	5	18.47	124	187	6	5.68
2/10/2011	10	18.17	163	200	7	6.05
2/11/2011	9	17.90	173	207	5	4.38
2/12/2011	5	19.03	161	198	10	5.01
2/13/2011	3	19.15	146	165	6	3.34
2/14/2011	5	23.91	241	299	7	4.39
2/15/2011	15	17.93	132	167	5	4.01

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

Bucklin Point 2011 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)
2/16/2011	5	19.03	166	213	9	4.10
2/17/2011	10	22.02	171	212	4	4.97
2/18/2011	12	26.17	152	155	3	5.27
2/19/2011	11	21.68	141	167	4	4.41
2/20/2011	7	19.86	119	163	6	4.15
2/21/2011	12	21.01	169	215	7	4.31
2/22/2011	7	19.53	137	203	9	4.26
2/23/2011	7	18.99	226	237	9	4.11
2/24/2011	25	20.01	158	193	8	4.68
2/25/2011	13	57.34	237	176	17	10.60
2/26/2011	3	26.15	221	106	10	5.50
2/27/2011	4	26.94	97	118	3	4.19
2/28/2011	3	37.64	117	156	14	7.45
3/1/2011	3	26.31	102	106	6	4.19
3/2/2011	2	26.84	103	120	5	3.25
3/3/2011	2	24.50	116	143	5	2.80
3/4/2011	14	24.37	123	179	4	4.12
3/5/2011	3	26.22	99	182	4	3.88
3/6/2011	2	27.36	100	111	12	5.10
3/7/2011	26	48.37	130	115	27	11.20
3/8/2011	3	39.72	73	95	23	8.78
3/9/2011	2	27.79	80	94	4	3.34
3/10/2011	5	27.94	107	121	4	3.27
3/11/2011	2	35.90	132	123	5	4.17
3/12/2011	3	26.32	101	162	6	3.69
3/13/2011	2	25.18	120	154	9	2.96
3/14/2011	2	25.61	111	108	6	2.77
3/15/2011	5	24.18	131	150	5	2.80
3/16/2011	4	35.29	137	145	9	4.14
3/17/2011	4	24.16	113	139	6	2.10
3/18/2011	4	23.27	157	153	3	2.83
3/19/2011	5	22.83	150	168	5	2.60
3/20/2011	6	21.04	108	110	5	<2
3/21/2011	8	27.59	179	195	6	4.32
3/22/2011	7	23.21	136	126	4	2.70
3/23/2011	9	22.35	148	199	4	3.16
3/24/2011	4	22.12	139	170	4	3.74
3/25/2011	3	20.75	131	182	5	3.90
3/26/2011	4	20.45	160	175	3	3.70
3/27/2011	9	19.52	134	168	2	2.21
3/28/2011	5	19.45	156	199	7	2.91
3/29/2011	5	19.21	198	218	4	2.59
3/30/2011	5	18.89	147	175	4	4.49
3/31/2011	4	22.64	183	196	13	7.79
4/1/2011	27	33.39	173	155	8	6.00
4/2/2011	2	19.82	117	197	6	3.85

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

Bucklin Point 2011 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)
4/3/2011	2	18.71	154	166	8	3.82
4/4/2011	4	21.43	159	159	7	3.86
4/5/2011	6	21.47	210	142	6	4.32
4/6/2011	3	19.06	199	246	7	3.90
4/7/2011	5	18.21	265	203	10	3.92
4/8/2011	6	18.63	212	219	6	4.46
4/9/2011	9	18.41	135	203	9	4.53
4/10/2011	5	18.22	183	209	6	3.88
4/11/2011	7	19.38	179	219	7	3.96
4/12/2011	7	21.65	182	208	11	6.50
4/13/2011	19	54.44	214	157	27	12.43
4/14/2011	3	21.07	130	159	8	4.67
4/15/2011	8	19.94	139	161	7	6.99
4/16/2011	22	23.20	139	160	7	7.62
4/17/2011	40	47.15	161	142	9	5.60
4/18/2011	4	25.10	120	144	7	5.70
4/19/2011	15	25.37	175	220	2	6.19
4/20/2011	12	24.77	135	150	12	9.10
4/21/2011	8	23.17	117	141	4	6.33
4/22/2011	14	22.17	137	184	6	5.48
4/23/2011	25	35.97	157	171	16	7.03
4/24/2011	7	22.95	107	111	14	5.56
4/25/2011	20	22.98	138	142	11	5.10
4/26/2011	44	23.42	167	159	11	6.08
4/27/2011	37	24.09	151	143	13	6.15
4/28/2011	43	29.62	180	152	13	7.92
4/29/2011	35	21.45	171	154	8	5.74
4/30/2011	13	20.82	121	156	7	5.68
5/1/2011	27	19.45	137	171	10	5.56
5/2/2011	18	20.91	147	185	6	5.70
5/3/2011	43	21.48	152	153	8	6.50
5/4/2011	36	27.44	167	215	14	8.47
5/5/2011	8	20.72	194	186	8	5.57
5/6/2011	9	19.15	147	170	6	3.82
5/7/2011	9	23.68	167	194	11	5.45
5/8/2011	11	18.81	167	149	3	4.25
5/9/2011	20	19.59	145	197	5	4.50
5/10/2011	8	20.62	170	199	4	4.41
5/11/2011	14	20.48	173	166	9	4.51
5/12/2011	20	19.13	146	163	5	2.30
5/13/2011	23	18.47	153	191	10	4.27
5/14/2011	25	18.72	173	203	10	4.05
5/15/2011	35	27.80	159	187	8	5.08
5/16/2011	8	26.05	132	159	8	4.77
5/17/2011	13	25.95	145	172	7	4.78
5/18/2011	18	23.06	147	159	7	4.90

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

Bucklin Point 2011 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)
5/19/2011	19	33.51	154	147	17	5.76
5/20/2011	12	24.72	161	179	9	4.74
5/21/2011	14	19.49	122	176	8	5.10
5/22/2011	10	19.50	163	217	9	4.08
5/23/2011	11	21.86	139	177	9	4.39
5/24/2011	17	26.47	165	178	6	6.12
5/25/2011	25	18.82	149	187	7	5.58
5/26/2011	10	19.34	205	203	8	5.65
5/27/2011	15	18.44	182	158	5	3.83
5/28/2011	10	18.34	150	173	6	3.78
5/29/2011	9	17.76	183	184	5	4.32
5/30/2011	4	17.36	141	167	6	5.22
5/31/2011	6	16.87	167	170	6	4.46
6/1/2011	7	21.68	225	226	9	5.13
6/2/2011	15	17.64	151	173	7	5.05
6/3/2011	2	16.84	163	216	6	4.34
6/4/2011	4	16.73	153	191	6	4.02
6/5/2011	3	16.41	159	202	10	4.08
6/6/2011	9	16.44	173	201	7	6.04
6/7/2011	11	15.99	207	252	8	4.43
6/8/2011	4	15.61	144	154	9	4.25
6/9/2011	16	24.14	334	308	11	5.41
6/10/2011	2	16.69	218	229	5	4.40
6/11/2011	3	20.41	156	209	5	4.98
6/12/2011	15	37.02	129	163	8	5.10
6/13/2011	2	18.96	125	181	5	3.65
6/14/2011	2	18.21	189	194	8	3.09
6/15/2011	18	16.95	234	232	9	2.72
6/16/2011	4	16.89	217	225	6	2.57
6/17/2011	4	18.49	195	243	3	2.33
6/18/2011	7	16.66	148	207	4	2.58
6/19/2011	4	15.06	134	197	6	3.42
6/20/2011	4	15.98	233	266	8	2.83
6/21/2011	2	15.84	295	263	14	2.65
6/22/2011	3	24.84	215	243	12	3.31
6/23/2011	5	26.87	195	171	6	2.42
6/24/2011	5	17.53	157	175	5	2.10
6/25/2011	3	16.82	169	191	7	2.73
6/26/2011	4	17.95	173	193	6	2.18
6/27/2011	8	16.05	147	186	7	2.24
6/28/2011	9	16.27	177	226	3	2.00
6/29/2011	4	16.28	213	237	5	2.10
6/30/2011	3	15.81	184	215	<2	2.20
7/1/2011	44	15.54	197	219	5	2.19
7/2/2011	5	15.17	186	204	2	2.30
7/3/2011	5	16.16	179	264	4	2.30

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

Bucklin Point 2011 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)
7/4/2011	4	14.59	167	153	2	2.04
7/5/2011	5	14.63	171	197	<2.0	2.03
7/6/2011	4	15.21	210	219	<2.0	<2
7/7/2011	3	14.77	185	220	3	<2
7/8/2011	6	31.90	251	240	7	3.54
7/9/2011	5	20.29	104	120	3	2.30
7/10/2011	3	20.29	138	158	4	<2
7/11/2011	5	20.29	153	183	2	2.25
7/12/2011	17	16.13	182	287	3	<2
7/13/2011	14	19.10	177	219	5	2.30
7/14/2011	21	16.84	190	195	2	<2
7/15/2011	10	15.24	186	208	5	<2
7/16/2011	5	15.18	109	153	3	2.34
7/17/2011	3	14.75	194	196	<2.0	<2
7/18/2011	6	16.54	205	234	4	2.08
7/19/2011	7	15.04	186	189	2	2.44
7/20/2011	9	15.26	198	234	3	2.58
7/21/2011	8	15.90	201	215	2	2.46
7/22/2011	10	14.39	225	233	2	3.23
7/23/2011	14	15.45	200	224	6	2.94
7/24/2011	6	14.15	166	212	2	2.12
7/25/2011	8	16.06	199	236	4	<2
7/26/2011	5	17.59			4	2.48
7/27/2011	4	14.31			5	3.60
7/28/2011	6	13.98	224	269	6	4.76
7/29/2011	4	15.49	233	341	5	3.26
7/30/2011	9	13.70	216	232	5	3.05
7/31/2011	7	13.09	217	203	8	2.70
8/1/2011	8	14.09	148	231	5	2.81
8/2/2011	4	15.88	248	240	6	8.30
8/3/2011	85	14.19	220	205	6	4.35
8/4/2011	4	13.68	247	299	4	2.27
8/5/2011	6	13.82	261	334	3	2.29
8/6/2011	7	14.12	225	279	5	<2
8/7/2011	14	44.56	171	150	8	2.72
8/8/2011	2	15.54	132	165	4	2.10
8/9/2011	2	21.37	194	234	8	2.00
8/10/2011	6	25.08	217	192	4	<2
8/11/2011	2	14.84	133	155	5	2.00
8/12/2011	71	14.22	171	174	4	<2
8/13/2011	5	14.14	207	240	5	<2
8/14/2011	2	15.05	209	220	5	3.24
8/15/2011	2	45.74	190	174	6	4.00
8/16/2011	2	18.11	114	124	5	2.58
8/17/2011	7	16.41	159	167	4	2.28
8/18/2011	3	16.57	165	161	3	<2

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

Bucklin Point 2011 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)
8/19/2011	9	16.30	183	196	3	2.10
8/20/2011	7	19.75	148	176	3	<2
8/21/2011	6	15.71	145	154	7	<2
8/22/2011	6	21.10	144	160	4	<2
8/23/2011	2	14.91	158	200	5	2.00
8/24/2011	6	15.60	161	186	5	<2
8/25/2011	6	16.40	202	260	4	2.00
8/26/2011	7	15.12	205	204	6	<2
8/27/2011	5	19.65	204	246	7	2.85
8/28/2011	47	46.43	104	102	5	2.90
8/29/2011	3	20.04	112	127	7	2.50
8/30/2011	13	17.05	117	154	4	2.20
8/31/2011	10	16.86	149	237	6	2.58
9/1/2011	22	17.07	177	179	7	2.71
9/2/2011	6	16.20	185	224	7	3.49
9/3/2011	17	18.01	161	208	3	3.00
9/4/2011	7	15.93	175	233	7	2.62
9/5/2011	13	16.73	153	172	6	3.90
9/6/2011	17	46.77	183	168	8	3.55
9/7/2011	16	29.22	82	86	7	3.15
9/8/2011	20	48.27	95	78	7	2.56
9/9/2011	39	25.26	97	121	8	2.34
9/10/2011	26	21.99	104	154	2	2.20
9/11/2011	32	20.48	109	132	3	<2
9/12/2011	8	20.29	141	156	2	<2
9/13/2011	10	20.12	179	202	5	2.00
9/14/2011	8	20.45	163	166	5	2.16
9/15/2011	9	24.11	149	169	7	2.70
9/16/2011	3	18.38	126	219	4	2.56
9/17/2011	4	17.93	181	200	6	2.30
9/18/2011	9	17.41	160	155	7	2.28
9/19/2011	12	17.28	188	207	6	2.37
9/20/2011	7	18.48	188	239	4	2.87
9/21/2011	7	17.23	177	203	5	2.32
9/22/2011	5	24.08	179	183	5	2.61
9/23/2011	2	26.35	138	166	6	3.21
9/24/2011	16	28.92	113	140	3	2.10
9/25/2011	17	18.20	121	125	13	2.20
9/26/2011	56	17.41	154	177	7	2.49
9/27/2011	43	17.81	155	162	4	2.22
9/28/2011	70	17.35	165	179	6	2.92
9/29/2011	54	32.25	161	173	3	3.64
9/30/2011	152	20.20	138	141	11	2.49
10/1/2011	19	34.06	111	139	4	2.28
10/2/2011	35	20.27	101	163	3	3.00
10/3/2011	3	20.32	119	164	4	2.21

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

Bucklin Point 2011 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)
10/4/2011	8	32.25	123	155	4	2.40
10/5/2011	67	21.23	131	153	3	2.46
10/6/2011	230	20.74	122	155	4	2.40
10/7/2011	20	19.33	127	190	5	2.22
10/8/2011	2	18.64	142	174	4	2.25
10/9/2011	5	17.71	125	168	4	2.00
10/10/2011	2	18.38	135	180	5	<2
10/11/2011	2	18.06	149	170	3	<2
10/12/2011	2	18.87	177	220	5	2.22
10/13/2011	7	29.67	176	191	6	2.02
10/14/2011	2	33.07	114	152	5	3.10
10/15/2011	9	20.29	98	110	5	<2
10/16/2011	3	19.36	115	139	4	<2
10/17/2011	4	18.93	168	205	3	2.10
10/18/2011	3	18.92	144	184	4	2.43
10/19/2011	11	39.56	142	175	4	3.37
10/20/2011	7	35.84	98	102	6	2.89
10/21/2011	7	21.82	98	136	5	2.50
10/22/2011	7	21.24	116	133	4	<2
10/23/2011	2	20.43	121	136	6	<2
10/24/2011	4	20.92	116	153	<2.0	2.11
10/25/2011	2	20.11	136	154	4	2.06
10/26/2011	2	20.68	132	172	4	<2
10/27/2011	2	42.95	149	157	7	3.05
10/28/2011	2	21.46	85	107	4	2.23
10/29/2011	3	37.74	97	141	8	3.20
10/30/2011	3	41.49	91	87	31	17.40
10/31/2011	3	26.37	81	104	6	3.36
11/1/2011	2	25.98	103	127	5	2.26
11/2/2011	2	24.50	107	131	6	2.39
11/3/2011	3	24.93	113	124	4	2.13
11/4/2011	3	23.19	119	158	6	2.42
11/5/2011	2	22.51	102	196	6	2.62
11/6/2011	3	22.36	121	156	4	<2
11/7/2011	2	22.33	141	153	7	<2
11/8/2011	4	21.94	157	156	9	2.93
11/9/2011	3	21.97	148	158	3	2.66
11/10/2011	5	38.72	137	146	9	3.01
11/11/2011	2	22.53	109	132	5	2.06
11/12/2011	2	22.14	107	158	3	<2
11/13/2011	2	21.85	121	152	6	<2
11/14/2011	4	21.74	142	166	12	2.30
11/15/2011	3	21.63	152	167	10	<2
11/16/2011	3	38.29	169	186	23	5.10
11/17/2011	4	25.94	65	88	6	2.15
11/18/2011	3	21.50	39	57	2	<2

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

Bucklin Point 2011 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)
11/19/2011	2	21.93	99	137	3	<2
11/20/2011	4	21.49	107	147	2	<2
11/21/2011	5	21.13	129	182	5	<2
11/22/2011	3	21.68	143	165	29	6.42
11/23/2011	26	55.36	117	155	15	4.60
11/24/2011	5	24.18	118	152	7	2.00
11/25/2011	3	23.44	119	158	4	2.19
11/26/2011	4	22.98	106	123	5	2.94
11/27/2011	4	23.24	121	143	6	<2
11/28/2011	4	22.73	143	149	7	2.30
11/29/2011	6	22.59	159	172	13	3.89
11/30/2011	12	37.65	129	143	5	2.50
12/1/2011	4	22.15	128	156	4	2.52
12/2/2011	5	21.80	108	150	5	2.36
12/3/2011	3	21.51	122	153	4	2.42
12/4/2011	9	22.05	116	145	4	2.23
12/5/2011	7	21.95	150	172	6	3.24
12/6/2011	10	26.59	147	181	9	4.05
12/7/2011	9	59.29	131	151	38	15.65
12/8/2011	23	58.57	89	68	54	20.90
12/9/2011	5	35.14	93	90	7	4.71
12/10/2011	2	30.17	91	108	7	3.47
12/11/2011	2	27.35	81	136	5	3.19
12/12/2011	5	26.62	98	145	5	2.80
12/13/2011	3	26.09	103	132	3	2.23
12/14/2011	3	26.23	121	132	5	2.26
12/15/2011	6	26.07	99	126	6	2.52
12/16/2011	6	24.61	117	185	3	2.31
12/17/2011	3	24.00	105	143	4	2.60
12/18/2011	2	22.39	113	145	5	2.20
12/19/2011	6	22.81	109	157	7	3.18
12/20/2011	5	22.22	134	171	6	2.36
12/21/2011	3	23.01	139	129	6	4.50
12/22/2011	6	22.55	159	179	8	3.79
12/23/2011	13	33.44	155	172	7	4.54
12/24/2011	8	21.37	113	150	5	3.81
12/25/2011	5	20.53	109	192	5	3.29
12/26/2011	4	20.52	111	150	8	3.50
12/27/2011	4	27.87	133	147	8	4.32
12/28/2011	5	22.77	128	142	7	3.80
12/29/2011	4	20.53	119	156	6	4.80
12/30/2011	8	20.70	157	181	4	4.60
12/31/2011	11	20.76	129	172	5	3.60

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

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
1-Jan-11	28	29	
2-Jan-11	15	26	
3-Jan-11	17	29	
4-Jan-11	109	50	
5-Jan-11	NOT SAMPLED	NOT SAMPLED	
6-Jan-11	27	24	
7-Jan-11	17	8	
8-Jan-11	20	12	
9-Jan-11	16	5	
10-Jan-11	26	20	
11-Jan-11	8	5	
12-Jan-11	58	23	10
13-Jan-11	15	16	
14-Jan-11	11	26	
15-Jan-11	17	17	
16-Jan-11	15	10	
17-Jan-11	25	15	
18-Jan-11	19	27	
19-Jan-11	2420	1986	1553
20-Jan-11	980	1203	
21-Jan-11	1300	14	
22-Jan-11	37	19	
23-Jan-11	52	22	
24-Jan-11	19	20	
25-Jan-11	21	22	
26-Jan-11	NOT SAMPLED	NOT SAMPLED	
27-Jan-11	20	11	
28-Jan-11	17	33	
29-Jan-11	10	17	
30-Jan-11	24	23	
31-Jan-11	35	69	
1-Feb-11	17	16	
2-Feb-11	225	8	19
3-Feb-11	866	1414	
4-Feb-11	26	17	
5-Feb-11	29	6	
6-Feb-11	1986	980	
7-Feb-11	727	579	
8-Feb-11	>2419.6	397	
9-Feb-11	1120	687	613
10-Feb-11	14	18	
11-Feb-11	921	18	
12-Feb-11	82	54	
13-Feb-11	33	185	
14-Feb-11	225	30	
15-Feb-11	461	50	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
16-Feb-11	148	49	39
17-Feb-11	NOT SAMPLED	NOT SAMPLED	
18-Feb-11	11	56	
19-Feb-11	365	70	
20-Feb-11	276	248	
21-Feb-11	285	105	
22-Feb-11	1120	613	
23-Feb-11	816	727	435
24-Feb-11	461	19	
25-Feb-11	261	613	
26-Feb-11	649	199	
27-Feb-11	>2419.6	>2419.6	
28-Feb-11	>2419.6	1414	
1-Mar-11	>2419.6	>2419.6	
2-Mar-11	>2419.6	1986	<2419.6
3-Mar-11	>2419.6	>2419.6	
4-Mar-11	>2419.6	>2419.6	
5-Mar-11	613	113	
6-Mar-11	770	461	
7-Mar-11	2420	2420	
8-Mar-11	2420	1414	
9-Mar-11	NOT SAMPLED	NOT SAMPLED	
10-Mar-11	>2419.6	866	
11-Mar-11	>2419.6	1046	
12-Mar-11	1733	770	
13-Mar-11	488	326	
14-Mar-11	63	20	
15-Mar-11	1986	1046	
16-Mar-11	1203	1120	1299.7
17-Mar-11	>2419.6	2420	
18-Mar-11	2420	548	
19-Mar-11	435	365	
20-Mar-11	866	387	
21-Mar-11	613	548	
22-Mar-11	517	82	
23-Mar-11	NOT SAMPLED	NOT SAMPLED	
24-Mar-11	276	145	
25-Mar-11	579	106	
26-Mar-11	488	20	
27-Mar-11	1120	206	
28-Mar-11	517	23	
29-Mar-11	687	158	
30-Mar-11	1300	36	33.6
31-Mar-11	1553	921	
1-Apr-11	>2419.6	>2419.6	
2-Apr-11	>2419.6	>2419.6	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
3-Apr-11	1203	41	
4-Apr-11	770	13	
5-Apr-11	727	15	
6-Apr-11	NOT SAMPLED	NOT SAMPLED	
7-Apr-11	866	20	
8-Apr-11	82	11	
9-Apr-11	32	13	
10-Apr-11	209.8	27.5	
11-Apr-11	161.6	15.6	
12-Apr-11	18.5	161.6	
13-Apr-11	>2419.6	920.8	770.1
14-Apr-11	54	248	
15-Apr-11	1733	435	
16-Apr-11	1986	1300	
17-Apr-11	>2419.6	1300	
18-Apr-11	>2419.6	>2419.6	
19-Apr-11	>2419.6	>2419.6	
20-Apr-11	>2419.6	2420	>2419.6
21-Apr-11	>2419.6	1986	
22-Apr-11	1414	579	
23-Apr-11	299	236	
24-Apr-11	2420	488	
25-Apr-11	1300	190	
26-Apr-11	75	30	
27-Apr-11	NOT SAMPLED	NOT SAMPLED	
28-Apr-11	260	47	
29-Apr-11	124	34	
30-Apr-11	91	37	
1-May-11	107	41	
2-May-11	261	125	
3-May-11	20	47	
4-May-11	199	38	48.9
5-May-11	36	22	
6-May-11	22	23	
7-May-11	225	23	
8-May-11	27	46	
9-May-11	31	33	
10-May-11	NOT SAMPLED	NOT SAMPLED	
11-May-11	249	35	35.9
12-May-11	NOT SAMPLED	NOT SAMPLED	
13-May-11	155	24	
14-May-11	NOT SAMPLED	NOT SAMPLED	
15-May-11	NOT SAMPLED	NOT SAMPLED	
16-May-11	1733	43	
17-May-11	NOT SAMPLED	NOT SAMPLED	
18-May-11	44	14	13

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
19-May-11	NOT SAMPLED	NOT SAMPLED	
20-May-11	172	24	
21-May-11	NOT SAMPLED	NOT SAMPLED	
22-May-11	NOT SAMPLED	NOT SAMPLED	
23-May-11	12	19	
24-May-11	NOT SAMPLED	NOT SAMPLED	
25-May-11	49	29	37.9
26-May-11	NOT SAMPLED	NOT SAMPLED	
27-May-11	81	19	
28-May-11	NOT SAMPLED	NOT SAMPLED	
29-May-11	NOT SAMPLED	NOT SAMPLED	
30-May-11	NOT SAMPLED	NOT SAMPLED	
31-May-11	214	19	
1-Jun-11	NOT SAMPLED	21	21.3
2-Jun-11	NOT SAMPLED	NOT SAMPLED	
3-Jun-11	NOT SAMPLED	86	
4-Jun-11	NOT SAMPLED	NOT SAMPLED	
5-Jun-11	NOT SAMPLED	NOT SAMPLED	
6-Jun-11	10	17	
7-Jun-11	NOT SAMPLED	NOT SAMPLED	
8-Jun-11	10	20	25.3
9-Jun-11	NOT SAMPLED	NOT SAMPLED	
10-Jun-11	18	17	
11-Jun-11	NOT SAMPLED	NOT SAMPLED	
12-Jun-11	NOT SAMPLED	NOT SAMPLED	
13-Jun-11	28	25	
14-Jun-11	NOT SAMPLED	NOT SAMPLED	
15-Jun-11	5	6	8.6
16-Jun-11	NOT SAMPLED	NOT SAMPLED	
17-Jun-11	7	4	
18-Jun-11	NOT SAMPLED	NOT SAMPLED	
19-Jun-11	NOT SAMPLED	NOT SAMPLED	
20-Jun-11	19	1	
21-Jun-11	NOT SAMPLED	NOT SAMPLED	
22-Jun-11	NOT SAMPLED	NOT SAMPLED	
23-Jun-11	NOT SAMPLED	NOT SAMPLED	
24-Jun-11	20	15	
25-Jun-11	NOT SAMPLED	NOT SAMPLED	
26-Jun-11	NOT SAMPLED	NOT SAMPLED	
27-Jun-11	11	15	
28-Jun-11	NOT SAMPLED	NOT SAMPLED	
29-Jun-11	5	6	6.3
30-Jun-11	NOT SAMPLED	NOT SAMPLED	
1-Jul-11	25	15	
2-Jul-11	NOT SAMPLED	NOT SAMPLED	
3-Jul-11	NOT SAMPLED	NOT SAMPLED	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
4-Jul-11	6	<1.0	
5-Jul-11	NOT SAMPLED	NOT SAMPLED	13.4
6-Jul-11	8	15	
7-Jul-11	NOT SAMPLED	NOT SAMPLED	
8-Jul-11	22	52	
9-Jul-11	NOT SAMPLED	NOT SAMPLED	
10-Jul-11	NOT SAMPLED	NOT SAMPLED	
11-Jul-11	18	10	
12-Jul-11	NOT SAMPLED	NOT SAMPLED	
13-Jul-11	7	3	4.1
14-Jul-11	NOT SAMPLED	NOT SAMPLED	
15-Jul-11	10	10	
16-Jul-11	NOT SAMPLED	NOT SAMPLED	
17-Jul-11	NOT SAMPLED	NOT SAMPLED	
18-Jul-11	18	22	
19-Jul-11	NOT SAMPLED	NOT SAMPLED	
20-Jul-11	9	6	13.4
21-Jul-11	NOT SAMPLED	NOT SAMPLED	
22-Jul-11	8	18	
23-Jul-11	NOT SAMPLED	NOT SAMPLED	
24-Jul-11	NOT SAMPLED	NOT SAMPLED	
25-Jul-11	20	28	
26-Jul-11	NOT SAMPLED	NOT SAMPLED	
27-Jul-11	11	22	23.1
28-Jul-11	NOT SAMPLED	NOT SAMPLED	
29-Jul-11	17	28	
30-Jul-11	NOT SAMPLED	NOT SAMPLED	
31-Jul-11	NOT SAMPLED	NOT SAMPLED	
1-Aug-11	16	5	
2-Aug-11	NOT SAMPLED	NOT SAMPLED	
3-Aug-11	22	8	12.2
4-Aug-11	NOT SAMPLED	NOT SAMPLED	
5-Aug-11	16	14	
6-Aug-11	NOT SAMPLED	NOT SAMPLED	
40762	NOT SAMPLED	NOT SAMPLED	
40763	12.1	36.9	
40764	NOT SAMPLED	NOT SAMPLED	
40765	34.1	32.3	25.3
40766	NOT SAMPLED	NOT SAMPLED	
40767	5.2	23.8	
40768	NOT SAMPLED	NOT SAMPLED	
40769	NOT SAMPLED	NOT SAMPLED	
40770	17.1	44.3	
40771	NOT SAMPLED	NOT SAMPLED	
40772	15.8	22.6	16.9
40773	NOT SAMPLED	NOT SAMPLED	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
40774	7.5	11	
40775	NOT SAMPLED	NOT SAMPLED	
40776	NOT SAMPLED	NOT SAMPLED	
40777	22.8	22.6	
40778	NOT SAMPLED	NOT SAMPLED	
40779	9.7	9.8	7.5
40780	NOT SAMPLED	NOT SAMPLED	
40781	14.4	13.2	
40782	NOT SAMPLED	NOT SAMPLED	
40783	NOT SAMPLED	NOT SAMPLED	
40784	NOT SAMPLED	NOT SAMPLED	
40785	NOT SAMPLED	NOT SAMPLED	
40786	59.1	8.6	16.1
40787	NOT SAMPLED	NOT SAMPLED	
40788	18.3	7.4	
40789	NOT SAMPLED	NOT SAMPLED	
40790	NOT SAMPLED	NOT SAMPLED	
40791	7.4	12.1	
40792	NOT SAMPLED	NOT SAMPLED	
40793	15.5	1	3.1
40794	NOT SAMPLED	NOT SAMPLED	
40795	52.9	9.7	
40796	NOT SAMPLED	NOT SAMPLED	
40797	NOT SAMPLED	NOT SAMPLED	
40798	22.1	16.9	
40799	NOT SAMPLED	NOT SAMPLED	
40800	13.2	6.3	10
40801	NOT SAMPLED	NOT SAMPLED	
40802	16.1	12.1	
40803	NOT SAMPLED	NOT SAMPLED	
40804	NOT SAMPLED	NOT SAMPLED	
40805	12.1	6.3	
40806	NOT SAMPLED	NOT SAMPLED	
40807	11	7.5	5.2
40808	NOT SAMPLED	NOT SAMPLED	
40809	5.2	8.6	
40810	NOT SAMPLED	NOT SAMPLED	
40811	NOT SAMPLED	NOT SAMPLED	
40812	12.1	8.6	
40813	NOT SAMPLED	NOT SAMPLED	
40814	3	9.7	4.1
40815	NOT SAMPLED	NOT SAMPLED	
40816	23.5	14.6	
40817	NOT SAMPLED	NOT SAMPLED	
40818	NOT SAMPLED	NOT SAMPLED	
40819	7.5	13.4	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
40820	NOT SAMPLED	NOT SAMPLED	
40821	35	9.7	11
40822	NOT SAMPLED	NOT SAMPLED	
40823	12	10.6	
40824	NOT SAMPLED	NOT SAMPLED	
40825	NOT SAMPLED	NOT SAMPLED	
40826	7.4	4.1	
40827	NOT SAMPLED	NOT SAMPLED	
40828	12	4.1	5.1
40829	NOT SAMPLED	NOT SAMPLED	
40830	547.5	304.4	
40831	NOT SAMPLED	NOT SAMPLED	
40832	NOT SAMPLED	NOT SAMPLED	
40833	6	10	
40834	NOT SAMPLED	NOT SAMPLED	
40835	14.4	17.3	12
40836	NOT SAMPLED	NOT SAMPLED	
40837	121.3	33.7	
40838	NOT SAMPLED	NOT SAMPLED	
40839	NOT SAMPLED	NOT SAMPLED	
40840	19.9	28.8	
40841	NOT SAMPLED	NOT SAMPLED	
40842	19.9	344.8	18.5
40843	NOT SAMPLED	NOT SAMPLED	
40844	95.9	114.5	
40845	NOT SAMPLED	NOT SAMPLED	
40846	NOT SAMPLED	NOT SAMPLED	
40847	686.7	328.2	
40848	NOT SAMPLED	NOT SAMPLED	
40849	23	4.1	22.1
40850	NOT SAMPLED	NOT SAMPLED	
40851	53	47.9	
40852	NOT SAMPLED	NOT SAMPLED	
40853	NOT SAMPLED	NOT SAMPLED	
40854	37.9	29.2	
40855	NOT SAMPLED	NOT SAMPLED	
40856	NOT SAMPLED	NOT SAMPLED	
40857	NOT SAMPLED	NOT SAMPLED	
40858	29.4	13.4	
40859	NOT SAMPLED	NOT SAMPLED	
40860	NOT SAMPLED	NOT SAMPLED	
40861	18.1	10.9	
40862	NOT SAMPLED	NOT SAMPLED	
40863	14.5	10.9	13.5
40864	NOT SAMPLED	NOT SAMPLED	
40865	135.4	30	

Field's Point	Grab 1	Grab 2	Grab 2 Duplicate
40866	NOT SAMPLED	NOT SAMPLED	
40867	NOT SAMPLED	NOT SAMPLED	
40868	27.5	14.8	
40869	NOT SAMPLED	NOT SAMPLED	
40870	149.7	11	30.9
40871	NOT SAMPLED	NOT SAMPLED	
40872	35.5	19.5	
40873	NOT SAMPLED	NOT SAMPLED	
40874	NOT SAMPLED	NOT SAMPLED	
40875	25.6	12	
40876	NOT SAMPLED	NOT SAMPLED	
40877	325.5	84.2	106.7
40878	NOT SAMPLED	NOT SAMPLED	
40879	56.3	18.7	
40880	NOT SAMPLED	NOT SAMPLED	
40881	NOT SAMPLED	NOT SAMPLED	
40882	17.1	13.5	
40883	NOT SAMPLED	NOT SAMPLED	
40884	38.8	7.5	9.7
40885	NOT SAMPLED	NOT SAMPLED	
40886	67.5	18.3	
40887	NOT SAMPLED	NOT SAMPLED	
40888	NOT SAMPLED	NOT SAMPLED	
40889	387.3	25	
40890	NOT SAMPLED	NOT SAMPLED	
40891	98.4	33.3	37.7
40892	NOT SAMPLED	NOT SAMPLED	
40893	60.5	12.2	
40894	NOT SAMPLED	NOT SAMPLED	
40895	NOT SAMPLED	NOT SAMPLED	
40896	80.5	20.9	
40897	NOT SAMPLED	NOT SAMPLED	
40898	110	26.2	29.8
40899	NOT SAMPLED	NOT SAMPLED	
40900	14.5	178.2	
40901	NOT SAMPLED	NOT SAMPLED	
40902	NOT SAMPLED	NOT SAMPLED	
40903	71.9	75.9	
40904	NOT SAMPLED	NOT SAMPLED	
40905	613.1	11.8	12.2
40906	NOT SAMPLED	NOT SAMPLED	
40907	23.5	7.5	
40908	NOT SAMPLED	NOT SAMPLED	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
1-Jan-11	15	11	5	10	
2-Jan-11	10	4	7	5	
3-Jan-11	7	10	15	6	
4-Jan-11	12	5	6	3	
5-Jan-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
6-Jan-11	6	NOT SAMPLED	1	3	
7-Jan-11	12	6	4	9	
8-Jan-11	3	9	21	6	
9-Jan-11	5	11	9	8	
10-Jan-11	7	13	5	7	
11-Jan-11	5	7	9	6	
12-Jan-11	11	10	4	9	5
13-Jan-11	9	2	2	4	
14-Jan-11	7	13	9	4	
15-Jan-11	6	10	2	9	
16-Jan-11	4	8	4	1	
17-Jan-11	3	5	4	4	
18-Jan-11	5	5	2	12	
19-Jan-11	54	35	37	46	60
20-Jan-11	34	22	21	25	
21-Jan-11	15	14	13	12	
22-Jan-11	5	9	5	16	
23-Jan-11	28	20	13	23	
24-Jan-11	3	5	2	4	
25-Jan-11	4	3	6	11	
26-Jan-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
27-Jan-11	9	4	9	3	
28-Jan-11	7	7	14	5	
29-Jan-11	28	17	9	12	
30-Jan-11	23	13	9	6	
31-Jan-11	17	12	10	17	
1-Feb-11	28	20	14	15	
2-Feb-11	21	18	10	11	11
3-Feb-11	91	45	49	56	
4-Feb-11	32	21	26	15	
5-Feb-11	15	22	13	16	
6-Feb-11	416	74	15	35	
7-Feb-11	24	27	13	17	
8-Feb-11	16	21	13	23	
9-Feb-11	30	9	13	15	6
10-Feb-11	16	9	9	11	
11-Feb-11	16	4	4	12	
12-Feb-11	10	9	2	7	
13-Feb-11	8	8	6	3	
14-Feb-11	6	10	5	3	
15-Feb-11	19	13	10	12	
16-Feb-11	10	6	3	11	5
17-Feb-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Feb-11	7	9	4	2	
19-Feb-11	8	11	13	25	
20-Feb-11	0	3	5	12	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
21-Feb-11	29	12	11	7	
22-Feb-11	14	10	11	10	
23-Feb-11	48	12	10	20	9
24-Feb-11	8	21	20	14	
25-Feb-11	12	29	33	42	
26-Feb-11	6	4	3	3	
27-Feb-11	5	4	10	1	
28-Feb-11	3	<1	11	4	
1-Mar-11	4	<1	3	<1	
2-Mar-11	1	1	3	1	
3-Mar-11	<1	<1	2	1	<1
4-Mar-11	12.1	15.8	17.5	9.8	
5-Mar-11	13.4	2	5.1	5.2	
6-Mar-11	4.1	4.1	10.9	7.4	
7-Mar-11	25.9	22.3	101.7	17.5	
8-Mar-11	15.8	6.3	6.3	1	
9-Mar-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Mar-11	14.6	6.3	12	6.2	
11-Mar-11	3	4	8.5	<1	
12-Mar-11	7.3	6	6.3	4.1	
13-Mar-11	7.5	4.1	8.6	2	
14-Mar-11	5.2	6.3	5.2	5.1	
15-Mar-11	9	16.1	21	7.5	
16-Mar-11	12	8	12.2	4.1	9.8
17-Mar-11	6.3	10.9	6.3	6.3	
18-Mar-11	12	5.2	8	9.7	
19-Mar-11	7.2	28.8	51	18.3	
20-Mar-11	18	15	9	24	
21-Mar-11	9.7	5.2	12	3	
22-Mar-11	17	14.6	8.5	9.7	
23-Mar-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Mar-11	3.1	4.1	12.2	2	
25-Mar-11	15.8	1	6	6.3	
26-Mar-11	8.5	5.2	9.7	14.2	
27-Mar-11	5.2	4.1	4.1	28.2	
28-Mar-11	10	11	7.4	8.6	
29-Mar-11	9.8	5.1	8.6	23.1	
30-Mar-11	20.1	21.6	14.5	11.9	8.5
31-Mar-11	9.8	NOT SAMPLED	3.1	5.2	
1-Apr-11	28	12.2	90.6	8.6	
2-Apr-11	<1	1	<1	<1	
3-Apr-11	19	2	1	8.5	
4-Apr-11	3	2	24	2	
5-Apr-11	8.5	6.3	7.4	4.1	
6-Apr-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Apr-11	3	11	7.5	7.5	
8-Apr-11	5.2	8.5	5.2	1	
9-Apr-11	4.1	8.5	8.6	6.3	
10-Apr-11	6.3	8.5	5.2	4.1	
11-Apr-11	1	2	6.3	3	
12-Apr-11	9.7	8.5	5.2	8.6	
13-Apr-11	21.6	10.9	4.1	25.9	23.1
14-Apr-11	3	10	3	1	
15-Apr-11	15	16.1	29	6.3	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
16-Apr-11	18	8.4	16.1	21.8	
17-Apr-11	77	14.8	21.3	6.1	
18-Apr-11	12	7	15	16	
19-Apr-11	8.5	14.6	22.1	10.8	
20-Apr-11	15	23.5	41	29.5	23.5
21-Apr-11	19	7.5	5.2	33.1	
22-Apr-11	20.1	31.3	23.3	59.8	
23-Apr-11	9	9.7	6	13.4	
24-Apr-11	1	6.3	8.6	5.2	
25-Apr-11	24.1	14.6	24.3	36.9	
26-Apr-11	23	31.3	24.9	34.5	
27-Apr-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Apr-11	48.7	26.2	29.8	42.6	
29-Apr-11	30.5	24.3	15.8	23.1	
30-Apr-11	35.5	35	29.2	18.9	
1-May-11	30	39	33	26	
2-May-11	20.1	21.3	20	21.3	
3-May-11	27.2	20	6.3	11	
4-May-11	18.7	8.6	19.7	22.6	18.3
5-May-11	15	4.1	5.2	9.7	
6-May-11	19.9	21.6	13.4	21.6	
7-May-11	17.1	11	21	14.6	
8-May-11	16	19.9	35.5	9.8	
9-May-11	10	13.4	16.9	9.7	
10-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
11-May-11	10.7	19	13.4	8.6	14.6
12-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
13-May-11	21.3	14	32	14.5	
14-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
15-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
16-May-11	17.3	5.2	13.4	9.7	
17-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-May-11	10.9	10	13.5	24.6	20.1
19-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
20-May-11	7.5	19.7	9	10.8	
21-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
22-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-May-11	2	14.6	21.8	10.9	
24-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
25-May-11	20.3	14.5	22	21.1	14.6
26-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
27-May-11	5.2	12.2	20.1	14.6	
28-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
29-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-May-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
31-May-11	13.4	9.7	6.3	7.5	
1-Jun-11	6	4	5	4	3.1
2-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
3-Jun-11	6	1	2	3	
4-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
6-Jun-11	2	20.1	11	4.1	
7-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
8-Jun-11	12.2	4.1	5.2	18.1	3.1

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
9-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Jun-11	3.1	2	2	<1.0	
11-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
12-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
13-Jun-11	1	2	1	<1.0	
14-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
15-Jun-11	<1.0	15	5	2	1
16-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
17-Jun-11	5.2	1	4.1	6.3	
18-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
19-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
20-Jun-11	3.1	1	<1.0	12.2	
21-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
22-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	<1.0	<1.0
23-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Jun-11	3.1	<1.0	3.1	1	
25-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
27-Jun-11	1	2	4.1	9.8	
28-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
29-Jun-11	1	14.5	1	1	2
30-Jun-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
1-Jul-11	31.7	12	10.9	10.8	
2-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
3-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
4-Jul-11	<1.0	<1.0	<1.0	<1.0	
5-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
6-Jul-11	38.4	5.2	2	4.1	3.1
7-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
8-Jul-11	4.1	<1.0	5.2	7.4	
9-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
11-Jul-11	4	4.1	6.3	1	
12-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
13-Jul-11	2	2	3.1	7.4	6.3
14-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
15-Jul-11	2	5.1	7.3	<1.0	
16-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
17-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Jul-11	1	3.1	8	1	
19-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
20-Jul-11	6.3	3.1	7.5	4.1	2
21-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
22-Jul-11	5.2	5.2	3.1	5.1	
23-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
25-Jul-11	3	4.1	2	4.1	
26-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
27-Jul-11	1	1	1	1	1
28-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
29-Jul-11	7.4	4.1	4.1	1	
30-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
31-Jul-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
1-Aug-11	<1.0	2	3.1	1	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
2-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
3-Aug-11	9.8	4.1	21.3	28.5	35
4-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Aug-11	5.2	3.1	<1.0	1	
6-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
8-Aug-11	<1.0	1	1	<1.0	
9-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Aug-11	4.1	2	2	1	2
11-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
12-Aug-11	3.1	3.1	2	23.1	
13-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
14-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
15-Aug-11	<1.0	1	<1.0	1	
16-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
17-Aug-11	3	<1.0	1	1	2
18-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
19-Aug-11	8.4	5.2	2	<1.0	
20-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
22-Aug-11	5.2	13.2	1	5.2	
23-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Aug-11	2	3.1	1	2	1
25-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Aug-11	2	1	1	3	
27-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
29-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-Aug-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
31-Aug-11	2	2	1	1	3
1-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
2-Sep-11	1	5.2	2	22.3	
3-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
4-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Sep-11	3.1	<1.0	5.2	2	
6-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Sep-11	4.1	2	3.1	3.1	1
8-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Sep-11	7.5	16.1	10.8	12	
10-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
11-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
12-Sep-11	5.2	7.5	2	2	
13-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
14-Sep-11	5.2	3.1	13.1	5.2	8.5
15-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
16-Sep-11	1	1	2	2	
17-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
19-Sep-11	1	3.1	3	<1.0	
20-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Sep-11	4.1	3	7.3	3.1	3.1
22-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-Sep-11	4.1	1	2	2	
24-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
25-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Sep-11	8.5	12.1	6.3	2	
27-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Sep-11	27.5	20.1	17.1	20.1	13.4
29-Sep-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-Sep-11	12	22.3	14.8	10.9	
1-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
2-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
3-Oct-11	2	<1.0	<1.0	1	
4-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Oct-11	13.2	5.2	14.5	1	5.2
6-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Oct-11	4.1	2	35	19.9	
8-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Oct-11	<1.0	1	<1.0	<1.0	
11-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
12-Oct-11	6.3	2	1	1	3.1
13-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
14-Oct-11	<1.0	1	<1.0	4.1	
15-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
16-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
17-Oct-11	7.5	1	<1.0	1	
18-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
19-Oct-11	<1.0	5.2	3.1	2	2
20-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Oct-11	1	<1.0	8.5	9.8	
22-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
24-Oct-11	2	<1.0	4.1	<1.0	
25-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Oct-11	<1.0	<1.0	3	<1.0	1
27-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Oct-11	<1.0	<1.0	1	<1.0	
29-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-Oct-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
31-Oct-11	1	9.6	<1.0	4.1	
1-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
2-Nov-11	4	6.3	1	3	
3-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
4-Nov-11	2	2	<1.0	2	
5-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
6-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Nov-11	<1.0	3.1	3.1	<1.0	

Bucklin Point	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
8-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
10-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
11-Nov-11	<1.0	<1.0	<1.0	2	
12-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
13-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
14-Nov-11	1	1	1	1	
15-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
16-Nov-11	2	8.6	5.2	4.1	3.1
17-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Nov-11	<1.0	2	2	2	
19-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
20-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Nov-11	6.3	5.2	5.2	17.3	
22-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-Nov-11	55.6	14.4	24.6	41.1	48.1
24-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
25-Nov-11	5.2	7.5	2	8.4	
26-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
27-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Nov-11	7.4	8.6	6.3	6.3	
29-Nov-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-Nov-11	43.7	23.8	6.3	8.4	10.7
1-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
2-Dec-11	2	5.2	1	3	
3-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
4-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
5-Dec-11	4.1	4.1	15.8	2	
6-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
7-Dec-11	4.1	6.3	8.5	3.1	5.2
8-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
9-Dec-11	5.2	6.3	6.3	4.1	
10-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
11-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
12-Dec-11	4.1	3	2	6.3	
13-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
14-Dec-11	1	4.1	6.3	9.7	5.2
15-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
16-Dec-11	1	2	<1.0	6.3	
17-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
18-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
19-Dec-11	12.1	13.2	7.5	1	
20-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
21-Dec-11	5.2	6.3	2	4.1	3.1
22-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
23-Dec-11	18.1	31.3	24.6	5.2	
24-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
25-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
26-Dec-11	7.5	7.4	8.5	15.8	
27-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
28-Dec-11	15.8	4.1	4.1	9.8	5.2
29-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	
30-Dec-11	6.3	4.1	6.3	4.1	
31-Dec-11	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	NOT SAMPLED	

Field's Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
1/4/2011	Tuesday	36.11	<2.5	10.5	32.8	<10	0.037	29.6	<4	76.4	4.8
1/5/2011	Wednesday	36.64	<2.5	<10	35.6	<10	0.033	27.2	<4	67	10.58
1/11/2011	Tuesday	35.53	<2.5	11.1	47.3	<10	0.061	57.4	<4	82	15.67
1/18/2011	Tuesday	56.80	<2.5	<10	41.8	19.1	0.058	17.3	<4	128	
1/19/2011	Wednesday	63.75	<2.5	<10	31.3	13.1	0.036	13.9	<4	84.1	10.54
1/25/2011	Tuesday	37.65	<2.5	52.1	42.6	<10	0.037	44.9	<4	108	19.3
1/26/2011	Wednesday	36.02	<2.5	<10	39.1	<10	0.033	19.9	<4	90.2	8.64
2/1/2011	Tuesday	36.49	<2.5	83.5	45.4	<10	0.028	22.3	<4	128	9.79
2/8/2011	Tuesday	51.89	6.6	10.9	46.3	10.8	0.056	42.2	<4	104	28.53
2/9/2011	Wednesday	40.88	<2.5	<10	52.8	<10	0.033	27.8	<4	90.8	
2/15/2011	Tuesday	39.29	<2.5	<10	37.5	<10	0.027	35.2	<4	75.7	
2/16/2011	Wednesday	45.04	<2.5	<10	34.7	<10	0.040	41.8	<4	68.6	
2/18/2011	Friday	55.63									7.54
2/22/2011	Tuesday	46.14	<2.5	33.4	25.9	<10	0.031	26.4	<4	78.6	7.7
2/23/2011	Wednesday	43.40	<2.5	12.6	30.4	<10	0.035	18.9	<4	71.3	4.95
3/1/2011	Tuesday	69.83	<2.5	<10	20.8	<10	0.027	15.2	<4	49.3	4.94
3/2/2011	Wednesday	71.14	<2.5	<10	20.8	<10	0.023	16.5	<4	51	7.12
3/7/2011	Monday	70.36									
3/8/2011	Tuesday	71.00	<2.5	<10	30.6	<10	0.019	17.4	<4	47.3	84.78
3/10/2011	Thursday	56.06									7.61
3/15/2011	Tuesday	49.17	<2.5	<10	27.6	<10	0.045	23.9	<4	55.2	96.53
3/16/2011	Wednesday	63.33	<2.5	<10	34.6	12.2	0.024	22.9	<4	70.2	5.57
3/22/2011	Tuesday	46.83	<2.5	10.2	27.4	<10	0.032	32.7	<4	63.9	12.16
3/23/2011	Wednesday	45.47	5.4	<10	47.7	<10	0.028	49.6	<4	86.1	9.75
3/29/2011	Tuesday	41.05	<2.5	<10	31.5	<10	0.033	16.7	4.1	68.1	5.7
3/30/2011	Wednesday	41.65	<2.5	<10	30.5	<10	0.037	20.9	<4	72.8	5.97
4/5/2011	Tuesday	45.90	<2.5	<10	41.2	<10	0.029	25.4	<4	72.1	5.6
4/6/2011	Wednesday	38.84	<2.5	<10	45	<10	0.030	30.2	<4	70.3	7.29
4/12/2011	Tuesday	50.46	<2.5	12.3	48.6	11.3	0.062	22.4	<4	110	6.18
4/13/2011	Wednesday	65.19	<2.5	<10	36.2	25.4	0.058	13.4	<4	80.8	6.59
4/19/2011	Tuesday	67.53	<2.5	<10	30.4	<10	0.030	13.3	<4	58	7.83
4/20/2011	Wednesday	69.31	<2.5	<10	26.2	<10	0.041	17.2	<4	65	5.6
4/26/2011	Tuesday	48.35	<2.5	10.7	31.1	<10	0.055	24	<4	95.1	6.09
4/27/2011	Wednesday	46.39	<2.5	10.4	36.8	<10	0.075	30.4	<4	91.4	6.56
5/3/2011	Tuesday	41.95	<2.5	<10	27	<10	0.045	29.4	<4	70.5	7.76
5/4/2011	Wednesday	51.10	<2.5	<10	37.8	14.3	0.053	25.1	<4	122	9.61
5/10/2011	Tuesday	40.61	<2.5	<10	36.5	<10	0.031	30.7	<4	112	16.41
5/11/2011	Wednesday	38.76	<2.5	<10	35.7	<10	0.046	25.5	5.2	70.1	

Table 5: Field's Point Influent Metals and Cyanide (Cd - CN)

Field's Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
5/13/2011	Friday	38.76									4.79
5/17/2011	Tuesday	49.32	<2.5	<10	43.5	14.4	0.037	24.8	<4	89.4	7.94
5/18/2011	Wednesday	48.34	<2.5	<10	40.2	<10	0.028	20.2	<4	79.9	5.87
5/24/2011	Tuesday	48.35	<2.5	<10	36.3	<10	0.044	33.1	<4	63.8	7.05
5/25/2011	Wednesday	42.98	<2.5	<10	40.8	<10	0.041	29.4	<4	87.1	
5/26/2011	Thursday	42.49									7.25
5/31/2011	Tuesday	37.64	<2.5	<10	49.9	<10	0.046	34.5	<4	95.9	
6/1/2011	Wednesday	40.04	<2.5	<10	27.6	<10	0.023	29.2	<4	58.7	7.4
6/3/2011	Friday	37.76									7.94
6/7/2011	Tuesday	35.10	<2.5	<10	37.3	<10	0.038	29.2	<4	66.5	5.36
6/8/2011	Wednesday	44.14	<2.5	17	59.8	28	0.057	27.7	<4	127	9.24
6/14/2011	Tuesday	53.68	<2.5	<10	28.3	<10	0.021	22.4	<4	59.1	28.43
6/15/2011	Wednesday	37.80	<2.5	<10	35.7	<10	0.034	23.4	<4	68.6	6.03
6/21/2011	Tuesday	35.84	<2.5	<10	37	<10	0.035	31.9	<4	81.4	4.57
6/22/2011	Wednesday	55.25	<2.5	<10	49.6	32.7	0.152	32.4	<4	138	5.2
6/28/2011	Tuesday	37.72	<2.5	<10	41.7	<10	0.038	24.3	<4	82.7	4.03
6/29/2011	Wednesday	36.39	<2.5	<10	45.1	11	0.034	29.2	<4	96.1	5.63
7/5/2011	Tuesday	35.45	<2.5	<10	50.1	<10	0.036	19	<4	75.6	<4
7/6/2011	Wednesday	36.59	<2.5	14.8	47.6	<10	0.056	28.4	<4	98.5	<4
7/12/2011	Tuesday	41.77	2.6	<10	37.6	<10	0.028	154	<4	92.8	5.3
7/13/2011	Wednesday	49.01	<2.5	11.2	45.8	21	0.110	30.7	<4	129	4.92
7/19/2011	Tuesday	35.83	2.9	10.5	29.8	<10	0.028	23.4	<4	99.2	6.7
7/20/2011	Wednesday	36.82	<2.5	<10	30.1	<10	0.034	27	<4	75.4	6.07
7/26/2011	Tuesday	36.63	<2.5	<10	45.6	12.3	0.050	29.9	<4	104	<4
7/27/2011	Wednesday	33.80	2.8	<10	37.3	<10	0.036	47	<4	91.5	5.65
8/2/2011	Tuesday	33.92	<2.5	20.9	45.9	<10	0.046	31.3	<4	130	<4
8/3/2011	Wednesday	33.39	<2.5	<10	37.5	<10	0.061	29.9	<4	111	5.2
8/9/2011	Tuesday	62.91	<2.5	<10	36	16.9	0.038	21.8	<4	87.1	8.59
8/10/2011	Wednesday	57.30	<2.5	16.3	29.1	<10	0.025	30.5	<4	83.1	5.2
8/16/2011	Tuesday	65.94	<2.5	<10	26.2	10.1	0.021	23	<4	68.6	11.83
8/17/2011	Wednesday	61.59	<2.5	<10	22.7	<10	0.028	19.9	<4	61.9	<4
8/23/2011	Tuesday	37.08	<2.5	<10	48.8	<10	0.035	31.8	<4	88.1	4.64
8/24/2011	Wednesday	34.96	<2.5	<10	48.2	<10	0.032	32.2	<4	89.6	6.13
8/30/2011	Tuesday	52.17	<2.5	<10	49.3	<10	0.038	41.9	<4	73.1	27.33
8/31/2011	Wednesday	38.48	<2.5	<10	52	<10	0.027	66	<4	98.4	11.32
9/6/2011	Tuesday	66.56	<2.5	<10	52.6	25.8	0.058	18.9	<4	127	<4
9/7/2011	Wednesday	67.99	<2.5	<10	30.2	10.4	0.044	14.5	<4	72.2	<4
9/13/2011	Tuesday	46.13	<2.5	<10	38.7	<10	0.042	23.4	<4	83.8	5.02

Table 5: Field's Point Influent Metals and Cyanide (Cd - CN)

Field's Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
9/14/2011	Wednesday	43.86	<2.5	<10	30.5	<10	0.042	17.8	<4	69.8	5.22
9/20/2011	Tuesday	39.35	<2.5	<10	41.9	<10	0.043	24.9	<4	98.1	7.09
9/21/2011	Wednesday	40.54	3.5	14.5	51.7	<10	0.045	31.8	<4	114	5.32
9/27/2011	Tuesday	42.21	2.9	11	39.3	<10	0.031	18.9	<4	108	<4
9/28/2011	Wednesday	49.58	<2.5	12.3	38.4	11.4	0.037	14	<4	98	5.77
10/4/2011	Tuesday	66.15	<2.5	<10	22.6	<10	0.031	17.3	<4	49.1	<4
10/5/2011	Wednesday	55.73	<2.5	<10	26.2	<10	0.016	14.2	<4	54.1	5.72
10/11/2011	Tuesday	41.40	<2.5	<10	33	<10	0.028	17.4	<4	83.4	<4
10/12/2011	Wednesday	45.25	<2.5	<10	104	<10	0.019	29.7	<4	62.2	46.37
10/18/2011	Tuesday	41.58	<2.5	12.4	36.7	<10	0.035	24	<4	89.6	<4
10/19/2011	Wednesday	72.47	<2.5	<10	25.5	11.9	0.023	12.9	<4	63.5	6.73
10/25/2011	Tuesday	46.15	<2.5	15.8	30.8	<10	0.039	17.1	<4	62.4	20.27
10/26/2011	Wednesday	44.07	<2.5	<10	31.3	<10	0.031	21.1	<4	73	<4
11/1/2011	Tuesday	66.10	<2.5	<10	27.5	<10	0.037	29.7	<4	63.4	
11/2/2011	Wednesday	60.51	<2.5	<10	24.4	<10	0.030	14.2	<4	58.4	<4
11/3/2011	Thursday	56.81									<4
11/8/2011	Tuesday	43.72	<2.5	10.8	38	<10	0.067	22.5	<4	73.1	4.25
11/9/2011	Wednesday	46.18	<2.5	<10	36.5	12.8	0.063	26.7	<4	156	7.69
11/15/2011	Tuesday	44.11	<2.5	11.2	28.7	<10	0.024	21	<4	78	4.58
11/16/2011	Wednesday	57.47	<2.5	<10	46.3	30.8	0.079	22.3	<4	114	<4
11/22/2011	Tuesday	54.83	<2.5	<10	42.9	<10	0.036	41.3	<4	92	<4
11/23/2011	Wednesday	66.55	<2.5	10.1	38.5	24.1	0.030	16.4	<4	99.5	<4
11/29/2011	Tuesday	55.59	<2.5	<10	43.2	11.2	0.033	21.2	<4	122	11.69
11/30/2011	Wednesday	61.96	<2.5	<10	63.3	28.5	0.073	21.9	<4	106	29.35
12/6/2011	Tuesday	50.46	<2.5	14	38.2	<10	0.030	23.8	<4	105	6.19
12/7/2011	Wednesday	89.84	<2.5	<10	29	16.4	0.038	15	<4	60.3	4.11
12/13/2011	Tuesday	67.86	<2.5	<10	21	<10	0.020	12.1	<4	50.4	4.25
12/14/2011	Wednesday	56.70	<2.5	<10	20.8	<10	0.019	17.2	<4	55.7	
12/15/2011	Thursday	51.38									<4
12/20/2011	Tuesday	44.69	<2.5	10.9	26.7	<10	0.024	22.1	<4	66.5	4.33
12/21/2011	Wednesday	46.79	<2.5	15	24.2	<10	0.018	18.9	<4	67.7	6.74
12/27/2011	Tuesday	50.68	<2.5	12.8	34.4	<10	0.040	16.1	<4	94.8	<4
12/28/2011	Wednesday	55.28	<2.5	<10	23.8	<10	0.024	14.9	<4	59.1	<4

Table 5: Field's Point Influent Metals and Cyanide (Cd - CN)

Field's Point Influent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo
1/4/2011	Tuesday	36.11	289	1240	9.87	2.08	3.44
1/5/2011	Wednesday	36.64	272	1230			
1/11/2011	Tuesday	35.53	505	1330	7.87	2.06	3.93
1/18/2011	Tuesday	56.80	1360	3200	9.74	1.9	3.43
1/19/2011	Wednesday	63.75	743	1750			
1/25/2011	Tuesday	37.65	361	1520	4.12	2.76	3.67
1/26/2011	Wednesday	36.02	403	1510			
2/1/2011	Tuesday	36.49	327	1480	3.98	1.03	1.76
2/8/2011	Tuesday	51.89	584	1800	2.52	0.672	0.693
2/9/2011	Wednesday	40.88	277	1330			
2/15/2011	Tuesday	39.29	317	1240	3.87	1.37	2.12
2/16/2011	Wednesday	45.04	304	1280			
2/18/2011	Friday	55.63					
2/22/2011	Tuesday	46.14	302	1190	2.02	0.748	2.9
2/23/2011	Wednesday	43.40	286	1170			
3/1/2011	Tuesday	69.83	248	1050	1.51	0.569	0.926
3/2/2011	Wednesday	71.14	262	1040			
3/7/2011	Monday	70.36					
3/8/2011	Tuesday	71.00	180	895	1.63	0.577	0.992
3/10/2011	Thursday	56.06					
3/15/2011	Tuesday	49.17	247	1070	2.19	0.687	7.94
3/16/2011	Wednesday	63.33	492	1400			
3/22/2011	Tuesday	46.83	401	1190	2.97	1.15	2
3/23/2011	Wednesday	45.47	397	1300			
3/29/2011	Tuesday	41.05	500	1190	3.52	1.03	1.72
3/30/2011	Wednesday	41.65	248	1140			
4/5/2011	Tuesday	45.90	337	1350	2.44	1.03	2.06
4/6/2011	Wednesday	38.84	312	1200			
4/12/2011	Tuesday	50.46	606	1810	3.23	1.04	9.3
4/13/2011	Wednesday	65.19	1180	2090			
4/19/2011	Tuesday	67.53	238	853	1.58	1.14	2.59
4/20/2011	Wednesday	69.31	252	1260			
4/26/2011	Tuesday	48.35	311	1370	5.5	1.23	2.79
4/27/2011	Wednesday	46.39	310	1430			

Table 6: Field's Point Influent Metals (Al - Mo)

Field's Point Influent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo
5/3/2011	Tuesday	41.95	218	1300	2.46	1.14	2.75
5/4/2011	Wednesday	51.10	491	1740			
5/10/2011	Tuesday	40.61	256	1240	3.45	1.36	4.19
5/11/2011	Wednesday	38.76	262	1110			
5/13/2011	Friday	38.76					
5/17/2011	Tuesday	49.32	617	1730	3.51	1.67	4.16
5/18/2011	Wednesday	48.34	326	1090			
5/24/2011	Tuesday	48.35	427	1320	3.52	1.28	5.66
5/25/2011	Wednesday	42.98	372	1480			
5/26/2011	Thursday	42.49					
5/31/2011	Tuesday	37.64	1090	1650	2.68	1.28	4.29
6/1/2011	Wednesday	40.04	195	1030			
6/3/2011	Friday	37.76					
6/7/2011	Tuesday	35.10	248	1220	5.54	1.3	5.8
6/8/2011	Wednesday	44.14	726	2330			
6/14/2011	Tuesday	53.68	203	1280	2.3	1.24	3.11
6/15/2011	Wednesday	37.80	244	1470			
6/21/2011	Tuesday	35.84	303	1450	2.51	1.23	3.98
6/22/2011	Wednesday	55.25	691	1910			
6/28/2011	Tuesday	37.72	372	1590	2.51	1.25	4.53
6/29/2011	Wednesday	36.39	354	1490			
7/5/2011	Tuesday	35.45	319	1290			
7/6/2011	Wednesday	36.59	362	1420			
7/12/2011	Tuesday	41.77	262	1330	2.2	1.21	5.51
7/13/2011	Wednesday	49.01	598	1880			
7/19/2011	Tuesday	35.83	243	1150	2.58	1.38	5.35
7/20/2011	Wednesday	36.82	274	1260			
7/26/2011	Tuesday	36.63	450	1570	4.14	1.79	7.23
7/27/2011	Wednesday	33.80	294	1360			
8/2/2011	Tuesday	33.92	411	1550	2.91	1.53	5.09
8/3/2011	Wednesday	33.39	357	1370			
8/9/2011	Tuesday	62.91	396	1350	1.79	1.39	3.16
8/10/2011	Wednesday	57.30	234	1160			
8/16/2011	Tuesday	65.94	236	979	2.14	1.22	2.84

Table 6: Field's Point Influent Metals (Al - Mo)

Field's Point Influent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo
8/17/2011	Wednesday	61.59	236	958			
8/23/2011	Tuesday	37.08	293	1350	3.76	1.46	6.79
8/24/2011	Wednesday	34.96	268	1320			
8/30/2011	Tuesday	52.17	236	1130	2.97	1.2	3.81
8/31/2011	Wednesday	38.48	251	1320			
9/6/2011	Tuesday	66.56	565	2140	2.04	1.29	3.22
9/7/2011	Wednesday	67.99	282	1160			
9/13/2011	Tuesday	46.13	540	1610	2.38	1.42	3.36
9/14/2011	Wednesday	43.86	300	1160			
9/20/2011	Tuesday	39.35	391	1330	2.88	1.23	4.66
9/21/2011	Wednesday	40.54	306	1380			
9/27/2011	Tuesday	42.21	268	1330	2.94	1.37	3.35
9/28/2011	Wednesday	49.58	362	1380			
10/4/2011	Tuesday	66.15	259	1170	2.72	1.58	2.35
10/5/2011	Wednesday	55.73	212	1100			
10/11/2011	Tuesday	41.40	291	1110	3.22	1.67	5.76
10/12/2011	Wednesday	45.25	205	943			
10/18/2011	Tuesday	41.58	302	1210	2.65	1.6	4.24
10/19/2011	Wednesday	72.47	306	892			
10/25/2011	Tuesday	46.15	267	1090	4.05	1.75	4.56
10/26/2011	Wednesday	44.07	311	1200			
11/1/2011	Tuesday	66.10	204	1070	2.47	0.999	3.24
11/2/2011	Wednesday	60.51	232	1040			
11/3/2011	Thursday	56.81					
11/8/2011	Tuesday	43.72	272	1410	3.27	1.18	6.19
11/9/2011	Wednesday	46.18	482	1560			
11/15/2011	Tuesday	44.11	308	1280	2.32	1.27	4.39
11/16/2011	Wednesday	57.47	859	1970			
11/22/2011	Tuesday	54.83	353	1400	3.01	1.03	3.36
11/23/2011	Wednesday	66.55	660	1760			
11/29/2011	Tuesday	55.59	462	1540	1.81	1.12	3.83
11/30/2011	Wednesday	61.96	1020	2480			
12/6/2011	Tuesday	50.46	370	1390	4.13	1.32	9.06
12/7/2011	Wednesday	89.84	435	1230			

Table 6: Field's Point Influent Metals (Al - Mo)

Field's Point Influent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo
12/13/2011	Tuesday	67.86	197	936	2.04	1.36	4.95
12/14/2011	Wednesday	56.70	197	1090			
12/15/2011	Thursday	51.38					
12/20/2011	Tuesday	44.69	225	1190	2.32	1.3	7.46
12/21/2011	Wednesday	46.79	189	1010			
12/27/2011	Tuesday	50.68	409	1550	1.58	1.46	2.18
12/28/2011	Wednesday	55.28	302	1220			

Table 6: Field's Point Influent Metals (Al - Mo)

Field's Point Effluent Metals and Cyanide (Cd - CN) 2011
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
1/4/2011	Tuesday	36.11	0.199	2.28	9.85	0.929	0.008	27.1	0.134	30.6	<4
1/5/2011	Wednesday	36.64	0.256	2.44	11	0.982	0.007	27.9	0.138	30.5	<4
1/11/2011	Tuesday	35.53	0.114	3.46	13.1	0.707	0.005	62.7	0.148	26.8	<4
1/12/2011	Wednesday	32.70	0.0802	1.46	13.1	0.642	0.003	55.5	0.106	20.6	<4
1/18/2011	Tuesday	56.80	0.0908	2.17	17.4	1.42	0.006	53.7	0.142	35.6	
1/19/2011	Wednesday	63.75	0.134	1.92	14.2	1.29	0.005	32.2	0.119	38.9	<4
1/20/2011	Thursday	50.64									<4
1/25/2011	Tuesday	37.65	0.297	3.29	13.4	0.842	0.005	30.2	0.126	30.7	<4
1/26/2011	Wednesday	36.02	0.272	2.93	14.5	0.748	0.005	23.1	0.114	30.8	<4
2/1/2011	Tuesday	36.49	0.245	2.72	15.5	0.575	0.004	18.9	0.185	33.5	<4
2/2/2011	Wednesday	49.52	0.295	2.78	21.5	1.29	0.006	24.9	0.183	44.9	<4
2/8/2011	Tuesday	51.89	<2.5	<10	16.6	<10	0.005	27.7	<4	51.9	6.3
2/9/2011	Wednesday	40.88	<2.5	<10	18.8	<10	0.005	24.9	<4	56.2	
2/11/2011	Friday	41.19									<4
2/15/2011	Tuesday	39.29	<2.5	<10	10.3	<10	0.004	19.9	<4	43.2	
2/16/2011	Wednesday	45.04	<2.5	<10	10.3	<10	0.004	25.8	<4	30.7	
2/17/2011	Thursday	47.96									<4
2/18/2011	Friday	55.63									<4
2/22/2011	Tuesday	46.14	<2.5	<10	<10	<10	0.005	20.4	<4	31.4	<4
2/23/2011	Wednesday	43.40	<2.5	<10	<10	<10	0.003	20.3	<4	30.4	<4
3/1/2011	Tuesday	69.83	0.47	3.59	8.63	<10	0.007	17	0.093	45.2	<4
3/2/2011	Wednesday	71.14	0.574	3.53	11.4	<10	0.005	17.4	0.086	44	10.11
3/8/2011	Tuesday	71.00	0.544	3.38	10	<10	0.005	17.5	0.106	25.1	9.44
3/9/2011	Wednesday	58.95	0.583	4.15	13.8	<10	0.005	23.5	0.119	27.8	
3/10/2011	Thursday	56.06									7.4
3/15/2011	Tuesday	49.17	0.388	4.26	11.4		0.006		0.13		5.72
3/16/2011	Wednesday	63.33	0.443	4.02	8.55		0.004		0.0697		<4
3/22/2011	Tuesday	46.83	0.595	5.15	10.4	<10	0.004	33.8	0.113	34	<4
3/23/2011	Wednesday	45.47	0.856	5.62	11.6	<10	0.004	32.3	0.113	36.3	<4
3/29/2011	Tuesday	41.05	0.394	6.39	8.92	<10	0.005	17.9	0.144	32.9	5.55
3/30/2011	Wednesday	41.65	0.422	5.41	11.4	<10	0.006	18.7	0.197	34.1	<4
4/4/2011	Monday	44.98									
4/5/2011	Tuesday	45.90	0.56	4.58	9.48	1.05	0.006	26	0.159	37.7	<4
4/6/2011	Wednesday	38.84	0.515	4.45	9.07	0.708	0.006	19.5	0.461	30.3	<4
4/12/2011	Tuesday	50.46	0.266	3.42	8.98	1.04	0.006	12	0.188	31.9	<4
4/13/2011	Wednesday	65.19	0.147	3.26	6.78	1.32	0.005	9.96	0.116	23.2	<4

Table 7: Field's Point Effluent Metals and Cyanide (Cd - CN)

Field's Point Effluent Metals and Cyanide (Cd - CN) 2011
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
4/19/2011	Tuesday	67.53	<2.5	<10	<10	<10	0.005	13.6	<4	27.7	<4
4/20/2011	Wednesday	69.31	<2.5	<10	<10	<10	0.005	12.8	<4	24.3	<4
4/26/2011	Tuesday	48.35	<2.5	<10	14.5	<10	0.007	21.5	<4	36.6	8.95
4/27/2011	Wednesday	46.39	<2.5	<10	10.5	<10	0.008	23.1	<4	51.3	<4
5/3/2011	Tuesday	41.95	0.332	1.15	9.01	0.9	0.012	24	0.04	26.9	<4
5/4/2011	Wednesday	51.10	0.274	1.82	10.9	1.58	0.013	21.8	0.047	37.5	9.38
5/10/2011	Tuesday	40.61	0.468	1.19	9.8	0.468	0.006	20.2	0.05	36.1	4.63
5/11/2011	Wednesday	38.76	0.285	1.49	7.9	0.755	0.005	23	0.079	32.5	
5/13/2011	Friday	38.76									<4
5/17/2011	Tuesday	49.32	0.099	0.795	6.65	0.892	0.005	14.6	0.08	22.7	<4
5/18/2011	Wednesday	48.34	0.128	14.8	10.2	1.15	0.007	25.6	0.093	31.8	<4
5/24/2011	Tuesday	48.35	0.07	8.8	7.01	<0.3	0.005	37	0.09	26.1	<4
5/25/2011	Wednesday	42.98	0.084	1.86	6.74	0.916	0.007	18.4	0.106	27.6	
5/26/2011	Thursday	42.49									<4
5/31/2011	Tuesday	37.64	0.124	1.12	7.63	0.745	0.005	17.1	0.14	29	
6/1/2011	Wednesday	40.04	0.172	1.08	7.47	0.899	0.006	19.4	0.14	26.9	<4
6/3/2011	Friday	37.76									<4
6/7/2011	Tuesday	35.10	0.135	1.01	7.91	0.759	0.007	22.3	0.14	26.2	<4
6/8/2011	Wednesday	44.14	0.113	2.03	9.99	2.05	0.008	17.2	0.17	21.5	<4
6/14/2011	Tuesday	53.68	0.235	0.624	7.5	0.909	0.005	21.5	0.08	23.4	4.12
6/15/2011	Wednesday	37.80	0.194	2.36	6.65	0.701	0.004	21.5	0.09	21.4	7.87
6/21/2011	Tuesday	35.84	0.127	1.62	7.17	1.08	0.007	22.4	0.13	18.9	<4
6/22/2011	Wednesday	55.25	0.252	1.69	7.96	1.85	0.006	19.8	0.11	26.2	<4
6/28/2011	Tuesday	37.72	0.32	0.822	8.28	0.749	0.005	18.5	0.09	21.4	<4
6/29/2011	Wednesday	36.39	0.4	0.973	8.32	0.879	0.005	21.1	0.09	21.6	<4
7/5/2011	Tuesday	35.45	0.181	1.1	6.54	0.822	0.007	13.7	0.07	21	4.09
7/6/2011	Wednesday	36.59	0.175	0.925	6.66	0.593	0.005	16.4	0.076	17.2	6.02
7/12/2011	Tuesday	41.77	0.282	0.719	5.38	0.741	0.007	71	0.05	19.6	<4
7/13/2011	Wednesday	49.01	0.464	1.05	7.56	1.72	0.017	35.9	0.11	31.5	<4
7/19/2011	Tuesday	35.83	0.636	0.819	10.7	0.896	0.008	21.2	0.08	23.6	<4
7/20/2011	Wednesday	36.82	0.551	0.719	6.09	0.639	0.006	20.5	0.086	22.6	<4
7/26/2011	Tuesday	36.63	0.496	0.921	8.35	0.959	0.007	18.5	0.11	30.9	<4
7/27/2011	Wednesday	33.80	0.528	0.822	8.54	0.823	0.006	23.4	0.1	35	<4
8/2/2011	Tuesday	33.92	0.498	2.09	6.69	0.657	0.003	21	0.07	26	<4
8/3/2011	Wednesday	33.39	0.508	0.748	6.52	0.565	0.003	22.4	0.07	27.4	<4
8/9/2011	Tuesday	62.91	0.238	1.23	7.11	2.18	0.007	11.8	0.133	25.7	<4

Table 7: Field's Point Effluent Metals and Cyanide (Cd - CN)

Field's Point Effluent Metals and Cyanide (Cd - CN) 2011
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
8/10/2011	Wednesday	57.30	0.262	1.11	6.62	1.44	0.005	15.5	0.1	25.4	<4
8/16/2011	Tuesday	65.94	0.278	1.43	5.83	1.41	0.005	15.9	0.09	28.3	<4
8/17/2011	Wednesday	61.59	0.248	1.2	5.55	1.16	0.005	17	0.077	24.4	<4
8/23/2011	Tuesday	37.08	0.148	0.594	5.72	0.708	0.003	15.8	0.05	23.9	<4
8/24/2011	Wednesday	34.96	0.158	0.654	5.73	0.884	0.005	17.9	0.05	30.2	<4
8/30/2011	Tuesday	52.17	0.247	0.428	8.01	0.801	0.003	18.5	0.067	27.8	<4
8/31/2011	Wednesday	38.48	0.21	0.49	7.19	0.683	0.003	27.8	0.06	33.1	<4
9/6/2011	Tuesday	66.56	0.11	0.78	6.81	1.26	0.005	8.72	0.07	28.9	<4
9/7/2011	Wednesday	67.99	0.11	1	5.91	1.23	0.005	9.77	0.17	26.1	<4
9/13/2011	Tuesday	46.13	0.08	0.8	4.33	0.67	0.004	13.4	0.06	18.1	<4
9/14/2011	Wednesday	43.86	0.09	0.65	4.42	0.78	0.003	13.7	0.06	18.8	<4
9/20/2011	Tuesday	39.35	0.15	0.47	5.31	0.63	0.004	14.7	0.05	20.8	<4
9/21/2011	Wednesday	40.54	0.22	0.64	5.55	0.8	0.007	15.2	0.07	22.5	<4
9/27/2011	Tuesday	42.21	0.24	0.56	4.51	0.59	0.003	13	0.05	22	<4
9/28/2011	Wednesday	49.58	0.2	0.64	4.76	1.47	0.002	10.6	0.07	21.8	<4
10/4/2011	Tuesday	66.15	0.09	1.13	4.5	0.98	0.005	15.4	0.11	19.2	<4
10/5/2011	Wednesday	55.73	0.11	1.12	3.93	0.6	0.003	11.2	0.06	17.9	<4
10/11/2011	Tuesday	41.40	0.19	1.64	10.5	0.51	0.004	11.9	0.08	19.2	<4
10/12/2011	Wednesday	45.25	0.27	0.88	14.5	0.72	0.004	12.6	0.12	23.8	10.84
10/18/2011	Tuesday	41.58	0.34	0.73	6.53	0.76	0.003	15.7	0.09	24.2	<4
10/19/2011	Wednesday	72.47	0.26	1.2	7.54	1.57	0.006	9.65	0.14	25.7	<4
10/25/2011	Tuesday	46.15	0.13	1.22	10.4	0.98	0.007	14	0.15	22	4.66
10/26/2011	Wednesday	44.07	0.13	1.39	6.61	1.05	0.006	13.2	0.13	23.8	<4
11/1/2011	Tuesday	66.10	0.26	1.23	6.29	1.48	0.008	16.4	0.16	24.4	
11/2/2011	Wednesday	60.51	0.19	1.1	5.15	1.36	0.008	12.5	0.14	24	<4
11/3/2011	Thursday	56.81									<4
11/8/2011	Tuesday	43.72	0.14	0.99	4.47	1.08	0.006	15.5	0.11	20.1	<4
11/9/2011	Wednesday	46.18	0.11	0.68	4.03	0.92	0.005	15.4	0.11	19.5	<4
11/15/2011	Tuesday	44.11	0.08	1.29	3.51	0.89	0.003	14.3	0.09	19.8	<4
11/16/2011	Wednesday	57.47	0.07	1.06	3.57	1.21	0.005	11.2	0.09	19.2	<4
11/22/2011	Tuesday	54.83	0.09	1.14	4.75	1.36	0.006	11	0.12	21	<4
11/23/2011	Wednesday	66.55	0.1	2.16	5.16	1.66	0.007	9.76	0.12	23.9	<4
11/29/2011	Tuesday	55.59	0.07	0.81	7.04	1.24	0.004	11.7	0.11	20	<4

Table 7: Field's Point Effluent Metals and Cyanide (Cd - CN)

Field's Point Effluent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo
1/4/2011	Tuesday	36.11	38.2	301	8.33	1.85	
1/5/2011	Wednesday	36.64	40.1	321			
1/11/2011	Tuesday	35.53	39.8	299			
1/12/2011	Wednesday	32.70	31.3	267			
1/18/2011	Tuesday	56.80	74.4	357			
1/19/2011	Wednesday	63.75	63.7	316			
1/20/2011	Thursday	50.64					
1/25/2011	Tuesday	37.65	39.2	325			
1/26/2011	Wednesday	36.02	28.5	286			
2/1/2011	Tuesday	36.49	20.8	266			
2/2/2011	Wednesday	49.52	53.7	398			
2/8/2011	Tuesday	51.89	88.5	225	3.42	0.804	
2/9/2011	Wednesday	40.88	73.3	212			
2/11/2011	Friday	41.19					
2/15/2011	Tuesday	39.29	60.7	196			
2/16/2011	Wednesday	45.04	50.6	155			
2/17/2011	Thursday	47.96					
2/18/2011	Friday	55.63					
2/22/2011	Tuesday	46.14	67.1	215			
2/23/2011	Wednesday	43.40	49.1	170			
3/1/2011	Tuesday	69.83	75.1	267			
3/2/2011	Wednesday	71.14	77	250			
3/8/2011	Tuesday	71.00	64.4	238	2.32	0.776	
3/9/2011	Wednesday	58.95	65	307			
3/10/2011	Thursday	56.06					
3/15/2011	Tuesday	49.17		288			
3/16/2011	Wednesday	63.33		231			
3/22/2011	Tuesday	46.83	60.7	262			
3/23/2011	Wednesday	45.47	58.2	241			
3/29/2011	Tuesday	41.05	78.9	266			
3/30/2011	Wednesday	41.65	68.7	337			
4/4/2011	Monday	44.98			2.65	1.03	
4/5/2011	Tuesday	45.90	60.6	284			
4/6/2011	Wednesday	38.84	50.8	215			
4/12/2011	Tuesday	50.46	58.1	248			
4/13/2011	Wednesday	65.19	72.7	220			

Table 8: Field's Point Effluent Metals (Al - Mo)

Field's Point Effluent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo
4/19/2011	Tuesday	67.53	48.3	212			
4/20/2011	Wednesday	69.31	45.3	204			
4/26/2011	Tuesday	48.35	41.6	191			
4/27/2011	Wednesday	46.39	45.2	216			
5/3/2011	Tuesday	41.95	28.7	259	<0.5	0.714	3.47
5/4/2011	Wednesday	51.10	42.4	330			
5/10/2011	Tuesday	40.61	31.3	259			
5/11/2011	Wednesday	38.76	24.8	295			
5/13/2011	Friday	38.76					
5/17/2011	Tuesday	49.32	21.3	178			
5/18/2011	Wednesday	48.34	30.5	251			
5/24/2011	Tuesday	48.35	24.9	214			
5/25/2011	Wednesday	42.98	28.4	264			
5/26/2011	Thursday	42.49					
5/31/2011	Tuesday	37.64	33.8	191			
6/1/2011	Wednesday	40.04	28.4	288			
6/3/2011	Friday	37.76					
6/7/2011	Tuesday	35.10	24.6	292	5.12	1.32	6.06
6/8/2011	Wednesday	44.14	51	333			
6/14/2011	Tuesday	53.68	12.6	133			
6/15/2011	Wednesday	37.80	15.5	157			
6/21/2011	Tuesday	35.84	27.5	243			
6/22/2011	Wednesday	55.25	34.7	252			
6/28/2011	Tuesday	37.72	26.8	196			
6/29/2011	Wednesday	36.39	24.1	261			
7/5/2011	Tuesday	35.45	23	264			
7/6/2011	Wednesday	36.59	15.6	207			
7/12/2011	Tuesday	41.77	14.8	170	1.65	1.07	
7/13/2011	Wednesday	49.01	37.9	400			
7/19/2011	Tuesday	35.83	24.3	218			
7/20/2011	Wednesday	36.82	29.7	205			
7/26/2011	Tuesday	36.63	26.2	308			
7/27/2011	Wednesday	33.80	27.4	336			
8/2/2011	Tuesday	33.92	19.8	231	2.44	1.31	
8/3/2011	Wednesday	33.39	17.8	221			
8/9/2011	Tuesday	62.91	47.3	462			

Table 8: Field's Point Effluent Metals (Al - Mo)

Field's Point Effluent Metals (Al - Mo) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo
8/10/2011	Wednesday	57.30	32.5	293			
8/16/2011	Tuesday	65.94	37.2	287			
8/17/2011	Wednesday	61.59	27.9	241			
8/23/2011	Tuesday	37.08	14.6	163			
8/24/2011	Wednesday	34.96	15.4	172			
8/30/2011	Tuesday	52.17	16.3	159			
8/31/2011	Wednesday	38.48	14.6	174			
9/6/2011	Tuesday	66.56	40.6	253			
9/7/2011	Wednesday	67.99	29.9	240			
9/13/2011	Tuesday	46.13	16.4	184	3	0.97	
9/14/2011	Wednesday	43.86	17.1	227			
9/20/2011	Tuesday	39.35	13.6	205			
9/21/2011	Wednesday	40.54	17.3	186			
9/27/2011	Tuesday	42.21	11	165			
9/28/2011	Wednesday	49.58	17.8	243			
10/4/2011	Tuesday	66.15	19.2	222	2.18	1.02	
10/5/2011	Wednesday	55.73	12.8	191			
10/11/2011	Tuesday	41.40	13.5	210			
10/12/2011	Wednesday	45.25	27.7	194			
10/18/2011	Tuesday	41.58	16.1	196			
10/19/2011	Wednesday	72.47	59.2	316			
10/25/2011	Tuesday	46.15	21.5	239			
10/26/2011	Wednesday	44.07	24.4	281			
11/1/2011	Tuesday	66.10	33.8	337			
11/2/2011	Wednesday	60.51	32.9	359			
11/3/2011	Thursday	56.81					
11/8/2011	Tuesday	43.72	42.8	314	2.56	1.17	
11/9/2011	Wednesday	46.18	21.7	289			
11/15/2011	Tuesday	44.11	20.3	283			
11/16/2011	Wednesday	57.47	28.8	245			
11/22/2011	Tuesday	54.83	30.1	273			
11/23/2011	Wednesday	66.55	34.8	302			

Table 8: Field's Point Effluent Metals (Al - Mo)

Bucklin Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
1/4/2011	Tuesday	17.01	<2.5	<10	32.0	61.3	<10	59.4	<10	<4.0	107.0	<4.00
1/5/2011	Wednesday	16.69	<2.5	<10	32	44.3	<10	68.1	12.1	<4.0	92.5	<4
1/10/2011	Monday	15.81	<2.5	<10	36	54.2	<10		<10	<4.0	139	
1/11/2011	Tuesday	15.39						79.8				<4
1/12/2011	Wednesday	16.33	<2.5	<10	41	42.1	<10	41.3	10.1	<4.0	93.5	<4
1/18/2011	Tuesday	28.26	<2.5	<10	40	60	<10	51.9	23.1	<4.0	105	<4
1/19/2011	Wednesday	30.04	<2.5	<10	22	45.4	13.500	43.8	<10	<4.0	143	9.66
1/25/2011	Tuesday	17.20	<2.5	<10	38	124	10.800	65.3	10.6	<4.0	135	
1/26/2011	Wednesday	17.35	<2.5	23.3	38	66.7	<10	49.2	16.7	<4.0	126	<4
1/27/2011	Thursday	17.03										<4
2/1/2011	Tuesday	16.52	<2.5	<10	38	60.7	<10	53.3	19.5	<4.0	117	<4
2/2/2011	Wednesday	22.13	<2.5	15.7	38	82.9	<10	57.4	33.9	<4.0	151	5.16
2/8/2011	Tuesday	25.09	<2.5	<10	22	45.7	<10	34.3	16.7	<4.0	118	6.21
2/9/2011	Wednesday	18.47	<2.5	<10	30	37.9	<10	73.9	14.2	<4.0	88.2	4.4
2/15/2011	Tuesday	17.93	<2.5	<10	24	38.7	<10	26.2	10	<4.0	88.3	<4
2/16/2011	Wednesday	19.03	<2.5	<10	30	41.5	<10	32.5	17.3	<4.0	87.3	<4
2/22/2011	Tuesday	19.53	<2.5	<10	26	40.6	<10	53.8	<10	<4.0	83.1	<4
2/23/2011	Wednesday	18.99	<2.5	<10	20	41.4	<10	44.2	11.7	<4.0	82.4	<4
3/1/2011	Tuesday	26.31	<2.5	<10	15	35.3	<10	29.9	<10	<4.0	64.1	<4
3/2/2011	Wednesday	26.84	<2.5	<10	17	35.7	<10	27.7	<10	<4.0	62.2	<4
3/8/2011	Tuesday	39.72	<2.5	<10	20	32.3	<10	33.1	<10	<4.0	64.1	<4
3/9/2011	Wednesday	27.79	<2.5	<10	18	29.2	<10	29.4	<10	<4.0	70.8	<4
3/15/2011	Tuesday	24.18	<2.5	<10	25	51.6	<10	38.4	<10	<4.0	73	<4
3/16/2011	Wednesday	35.29	<2.5	<10	21	30.6	<10	37	<10	<4.0	70.5	<4
3/22/2011	Tuesday	23.21	<2.5	<10	15	40.4	<10	40.3	21.9	<4.0	73.8	<4
3/23/2011	Wednesday	22.35	<2.5	<10	22	33.5	<10	39	<10	<4.0	67.9	<4
3/29/2011	Tuesday	19.21	<2.5	<10	28	39	<10	44	<10	<4.0	90	<4
3/30/2011	Wednesday	18.89	<2.5	<10	27	32.3	<10	55.6	<10	<4.0	69.3	4.07
4/5/2011	Tuesday	21.47	<2.5	<10	34	41	<10	63.2	10.7	<4.0	87.1	<4
4/6/2011	Wednesday	19.06	<2.5	12.3	37	53	<10	103	<10	<4.0	101	<4
4/12/2011	Tuesday	21.65	<2.5	23.8	37	55.3	<10	40.1	24.7	<4.0	102	<4
4/13/2011	Wednesday	54.44	<2.5	31.3	27	59.2	17.500	72.5	21.8	<4.0	124	4.1
4/19/2011	Tuesday	25.37	<2.5	<10	25	57.7	<10	62.6	12.3	<4.0	109	<4
4/20/2011	Wednesday	24.77	<2.5	<10	23	35	<10	51.6	<10	<4.0	81.9	<4
4/26/2011	Tuesday	23.42	<2.5	<10	17	36.4	<10	61.6	<10	<4.0	77.4	<4
4/27/2011	Wednesday	24.09	<2.5	<10	23	44.8	<10	75.6	<10	<4.0	78.9	<4
5/3/2011	Tuesday	21.48	<2.5	<10	22	39.7	<10	124	<10	<4.0	90.7	<4
5/4/2011	Wednesday	27.44	<2.5	<10	22	59.2	<10	74	12.3	<4.0	106	<4
5/10/2011	Tuesday	20.62	<2.5	<10	25	47	<10	88.7	<10	<4.0	100	<4
5/11/2011	Wednesday	20.48	<2.5	<10	20	53.7	<10	72.2	30.2	<4.0	102	<4
5/17/2011	Tuesday	25.95	<2.5	<10	26	42.6	<10	29.7	<10	<4.0	82.1	5.35
5/18/2011	Wednesday	23.06	<2.5	<10	31	61	15.900	77.9	<10	<4.0	108	<4
5/24/2011	Tuesday	26.47	<2.5	<10	16	44.5	<10	60.8	13.1	<4.0	88.7	<4
5/25/2011	Wednesday	18.82	<2.5	<10	22	36.6	<10	54.1	<10	<4.0	74.9	4.04

Table 9: Bucklin Point Influent Metals and Cyanide (Cd - CN)

Bucklin Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
5/31/2011	Tuesday	16.87	<2.5	<10	35	40.4	<10	37.1	<10	<4.0	89.7	<4
6/1/2011	Wednesday	21.68	<2.5	<10	33	57	11.000	77	10.8	4	119	<4
6/7/2011	Tuesday	15.99	<2.5	<10	52	57	<10	113	12.9	<4.0	117	8.39
6/8/2011	Wednesday	15.61	<2.5	13.1	21	36.5	<10	59.6	<10	<4.0	56.2	9.13
6/14/2011	Tuesday	18.21	<2.5	<10	23	53.3	<10	52.9	<10	<4.0	88.5	<4
6/15/2011	Wednesday	16.95	<2.5	<10	30	76.3	<10	102	45.3	<4.0	120	5.52
6/21/2011	Tuesday	15.84	<2.5	<10	53	59.3	<10	140	<10	<4.0	115	4.32
6/22/2011	Wednesday	24.84	<2.5	<10	39	59.4	<10	74.8	<10	<4.0	118	<4
6/28/2011	Tuesday	16.27	<2.5	<10	34	49.8	<10	47.1	<10	<4.0	97.4	<4
6/29/2011	Wednesday	16.28	<2.5	<10	32	41.1	<10	60.7	<10	<4.0	83.6	<4
7/5/2011	Tuesday	14.63	<2.5	<10	32	61.4	<10	31.9	<10	<4.0	81.7	
7/6/2011	Wednesday	15.21	<2.5	<10	35	62.1	<10	65.8	<10	<4.0	112	
7/7/2011	Thursday	14.77										<4
7/8/2011	Friday	31.90										<4
7/12/2011	Tuesday	16.13	<2.5	<10	32	53	<10	46.2	<10	<4.0	106	<4
7/13/2011	Wednesday	19.10	<2.5	13.7	38	68.4	12.100	63.6	12.6	<4.0	118	<4
7/19/2011	Tuesday	15.04	<2.5	96.7	34	55.8	<10	53.2	12.4	<4.0	107	<4
7/20/2011	Wednesday	15.26	<2.5	<10	31	50.3	<10	56.8	<10	<4.0	90.6	4.29
7/26/2011	Tuesday	17.59										4.59
7/27/2011	Wednesday	14.31										<4
7/28/2011	Thursday	13.98	<2.5	18.1	45	193	72.600	370	28.9	<4.0	245	
7/29/2011	Friday	15.49	<2.5	25	36	109	22.400	125	19.3	<4.0	197	
8/2/2011	Tuesday	15.88	<2.5	30.9	40	118	17.300	140	18.9	4.7	185	7.26
8/3/2011	Wednesday	14.19	<2.5	23.8	35	93.7	22.100	179	16.2	<4.0	179	<4
8/9/2011	Tuesday	21.37	<2.5	<10	29	50.8	<10	58.1	<10	<4.0	102	4.19
8/10/2011	Wednesday	25.08	<2.5	16.4	19	64.9	14.600	68.9	20.7	<4.0	111	<4
8/16/2011	Tuesday	18.11	<2.5	<10	20	48.8	<10	71.2	<10	<4.0	80.4	<4
8/17/2011	Wednesday	16.41	<2.5	<10	27	42.1	16.100	38.4	11.1	<4.0	74	<4
8/23/2011	Tuesday	14.91	<2.5	10.6	29	52.3	<10	44.5	17.3	<4.0	98.3	5.41
8/24/2011	Wednesday	15.60	<2.5	<10	31	60.4	<10	53.7	13	<4.0	86.5	4.61
8/30/2011	Tuesday	17.05	<2.5	<10	19	29.4	<10	32	16.6	<4.0	69.6	<4
8/31/2011	Wednesday	16.86	<2.5	<10	25	36.1	<10	41.4	15.7	<4.0	82.6	<4
9/6/2011	Tuesday	46.77	<2.5	<10	28	43	<10	54.2	<10	<4.0	108	<4
9/7/2011	Wednesday	29.22	<2.5	<10	12	29	<10	41.6	<10	<4.0	59.2	<4
9/13/2011	Tuesday	20.12	<2.5	17.7	25	40.7	<10	44.5	10.5	<4.0	80.1	5.07
9/14/2011	Wednesday	20.45	<2.5	14.1	30	39.4	<10	39.6	11.7	<4.0	75.9	<4
9/20/2011	Tuesday	18.48	<2.5	10.9	33	73.9	<10	49.2	16.5	<4.0	109	<4
9/21/2011	Wednesday	17.23	<2.5	<10	26	59.9	<10	112	18.9	<4.0	111	<4
9/27/2011	Tuesday	17.81	<2.5	<10	41	53.4	<10	46.1	11.4	<4.0	106	<4
9/28/2011	Wednesday	17.35	<2.5	<10	34	58.1	<10	31.5	10.5	<4.0	102	<4
10/4/2011	Tuesday	32.25	<2.5	<10	21	51.7	<10	53.7	22.5	<4.0	89.2	<4
10/5/2011	Wednesday	21.23	<2.5	<10	18	45.5	<10	34.1	11.2	<4.0	91	<4
10/11/2011	Tuesday	18.06	<2.5	<10	29	41.8	<10	38.1	20.7	<4.0	86.8	<4

Table 9: Bucklin Point Influent Metals and Cyanide (Cd - CN)

Bucklin Point Influent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
10/12/2011	Wednesday	18.87	<2.5	<10	36	37	<10	22.5	20	<4.0	79.6	<4
10/18/2011	Tuesday	18.92	<2.5	<10	23	45.1	<10	66.1	<10	<4.0	73.6	<4
10/19/2011	Wednesday	39.56	<2.5	<10	29	58.3	<10	47.9	<10	<4.0	90.7	<4
10/25/2011	Tuesday	20.11	<2.5	<10	29	56.5	<10	109	11.6	<4.0	100	<4
10/26/2011	Wednesday	20.68	<2.5	<10	28	35.4	<10	41.1	<10	<4.0	75.9	<4
11/1/2011	Tuesday	25.98	<2.5	<10	19	41.2	<10	50	<10	<4.0	73	<4
11/2/2011	Wednesday	24.50	<2.5	<10	15	42.4	<10	67.6	<10	<4.0	75.3	4.66
11/8/2011	Tuesday	21.94	<2.5	14.6	21	44.7	<10	36.7	10.2	<4.0	104	<4
11/9/2011	Wednesday	21.97	<2.5	20.3	27	53.2	<10	80.3	11.1	<4.0	99.3	<4
11/15/2011	Tuesday	21.63	<2.5	<10	28	54.4	<10	52.9	<10	<4.0	88.9	<4
11/16/2011	Wednesday	38.29	<2.5	<10	25	52	<10	64.7	<10	<4.0	109	4.27
11/21/2011	Monday	21.13	<2.5	<10	28	37	<10	28.8	<10	<4.0	69.5	
11/22/2011	Tuesday	21.68	<2.5	11.4	29	40.9	<10	37.4	10.5	<4.0	94.9	<4
11/23/2011	Wednesday	55.36										<4
11/29/2011	Tuesday	22.59	<2.5	<10	25	43.1	<10	44.4	<10	<4.0	84.4	<4
11/30/2011	Wednesday	37.65	<2.5	<10	13	41.8	<10	40.9	<10	<4.0	97.1	<4
12/6/2011	Tuesday	26.59	<2.5	13.9	26	58.5	<10	32.8	20	<4.0	80.6	4.62
12/7/2011	Wednesday	59.29	<2.5	<10	16	50.1	<10	60.3	10.3	<4.0	97.4	<4
12/13/2011	Tuesday	26.09	<2.5	<10	29	36.3	<10	33.1	<10	<4.0	51.7	<4
12/14/2011	Wednesday	26.23	<2.5	<10	16	46.5	<10	29.4	<10	<4.0	58.4	<4
12/20/2011	Tuesday	22.22	<2.5	<10	25	41.5	<10	37.1	<10	4	78.7	4.54
12/21/2011	Wednesday	23.01	<2.5	<10	21	39.8	<10	39.9	<10	<4.0	72.5	4.41
12/27/2011	Tuesday	27.87	<2.5	<10	33	37.5	<10	25.5	<10	<4.0	75.8	<4
12/28/2011	Wednesday	22.77	<2.5	<10	17	50.6	<10	35.7	14.8	<4.0	101	<4

Table 9: Bucklin Point Influent Metals and Cyanide (Cd - CN)

Bucklin Point Influent Metals (Al - Sn) 2011
all anayses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo	Sn
1/4/2011	Tuesday	17.01	443	1160	<1.5	1.96	3.69	<4.0
1/5/2011	Wednesday	16.69	413	1090				<4.0
1/10/2011	Monday	15.81	855	1350	<1.5	1.80	1.81	<4.0
1/12/2011	Wednesday	16.33	370	1520				<4.0
1/18/2011	Tuesday	28.26	483	1370	<1.5	1.75	1.91	<4.0
1/19/2011	Wednesday	30.04	1340	2860				<4.0
1/25/2011	Tuesday	17.20	489	1340	<1.5	1.82	2.60	<4.0
1/26/2011	Wednesday	17.35	578	1510				<4.0
2/1/2011	Tuesday	16.52	544	1450	<0.50	1.00	6.59	<4.0
2/2/2011	Wednesday	22.13	993	2300				<4.0
2/8/2011	Tuesday	25.09	1030	1930	<0.50	0.68	1.26	<4.0
2/9/2011	Wednesday	18.47	467	1300				<4.0
2/15/2011	Tuesday	17.93	531	1340	0.62	1.47	1.44	<4.0
2/16/2011	Wednesday	19.03	318	994				<4.0
2/22/2011	Tuesday	19.53	431	1090	<0.50	0.71	3.47	<4.0
2/23/2011	Wednesday	18.99	370	979				<4.0
3/1/2011	Tuesday	26.31	420	1080	<0.50	0.61	0.88	<4.0
3/2/2011	Wednesday	26.84	298	884				<4.0
3/8/2011	Tuesday	39.72	423	1080	<0.50	0.76	0.93	<4.0
3/9/2011	Wednesday	27.79	278	787				<4.0
3/15/2011	Tuesday	24.18	290	883	<0.50	0.77	1.49	<4.0
3/16/2011	Wednesday	35.29	451	1050				<4.0
3/22/2011	Tuesday	23.21	404	1140	0.59	1.01	1.77	<4.0
3/23/2011	Wednesday	22.35	280	798				<4.0
3/29/2011	Tuesday	19.21	390	956	1.52	1.02	1.84	<4.0
3/30/2011	Wednesday	18.89	268	767				<4.0
4/5/2011	Tuesday	21.47	413	1030	<0.50	1.06	1.16	<4.0
4/6/2011	Wednesday	19.06	480	1140				<4.0
4/12/2011	Tuesday	21.65	428	1210	<0.50	1.11	6.50	<4.0
4/13/2011	Wednesday	54.44	1200	2080				<4.0

Table 10: Bucklin Point Influent Metals (Al - Sn)

Bucklin Point Influent Metals (Al - Sn) 2011
all anayses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo	Sn
4/19/2011	Tuesday	25.37	2100	1050	0.56	1.11	1.80	<4.0
4/20/2011	Wednesday	24.77	510	900				<4.0
4/26/2011	Tuesday	23.42	283	834	<0.50	1.03	4.71	<4.0
4/27/2011	Wednesday	24.09	357	1020				<4.0
5/3/2011	Tuesday	21.48	384	1120	0.55	1.07	2.45	<4.0
5/4/2011	Wednesday	27.44	431	1220				<4.0
5/10/2011	Tuesday	20.62	402	1240	0.63	1.23	1.81	<4.0
5/11/2011	Wednesday	20.48	419	1250				<4.0
5/17/2011	Tuesday	25.95	355	1020	0.55	1.23	5.60	<4.0
5/18/2011	Wednesday	23.06	450	1200				<4.0
5/24/2011	Tuesday	26.47	438	1090	0.53	1.27	12.00	<4.0
5/25/2011	Wednesday	18.82	272	936				<4.0
5/31/2011	Tuesday	16.87	344	1080	0.65	1.14	1.15	<4.0
6/1/2011	Wednesday	21.68	690	1430				4
6/7/2011	Tuesday	15.99	418	1160	0.58	1.20	2.34	<4.0
6/8/2011	Wednesday	15.61	210	914				<4.0
6/14/2011	Tuesday	18.21	390	1330	0.58	1.22	3.30	<4.0
6/15/2011	Wednesday	16.95	568	1280				<4.0
6/21/2011	Tuesday	15.84	2170	1320	0.87	1.84	2.66	<4.0
6/22/2011	Wednesday	24.84	577	1320				<4.0
6/28/2011	Tuesday	16.27	402	1160	0.59	1.19	3.48	<4.0
6/29/2011	Wednesday	16.28	562	1010				<4.0
7/5/2011	Tuesday	14.63	282	965	0.58	1.23	2.47	<4.0
7/6/2011	Wednesday	15.21	450	1160				<4.0
7/12/2011	Tuesday	16.13	367	1180	0.62	1.53	1.88	<4.0
7/13/2011	Wednesday	19.10	406	1400				<4.0
7/19/2011	Tuesday	15.04	434	1970	0.75	1.46	2.44	<4.0
7/20/2011	Wednesday	15.26	312	1020				<4.0
7/28/2011	Thursday	13.98	884	3150	0.93	2.32	8.63	<4.0
7/29/2011	Friday	15.49	630	1930				<4.0

Table 10: Bucklin Point Influent Metals (Al - Sn)

Bucklin Point Influent Metals (Al - Sn) 2011
all anayses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo	Sn
8/2/2011	Tuesday	15.88	630	2590	0.77	1.64	3.31	4.7
8/3/2011	Wednesday	14.19	733	2210				<4.0
8/9/2011	Tuesday	21.37	397	1330	0.67	1.90	5.95	<4.0
8/10/2011	Wednesday	25.08	652	1410				<4.0
8/16/2011	Tuesday	18.11	306	1040	0.58	1.43	4.95	<4.0
8/17/2011	Wednesday	16.41	279	974				<4.0
8/23/2011	Tuesday	14.91	322	1130	0.62	1.30	2.11	<4.0
8/24/2011	Wednesday	15.60	276	936				<4.0
8/30/2011	Tuesday	17.05	270	1050	0.52	1.40	2.34	<4.0
8/31/2011	Wednesday	16.86	294	977				<4.0
9/6/2011	Tuesday	46.77	966	1120	0.63	1.25	2.11	<4.0
9/7/2011	Wednesday	29.22	314	837				<4.0
9/13/2011	Tuesday	20.12	302	922	0.59	1.19	1.51	<4.0
9/14/2011	Wednesday	20.45	566	1240				<4.0
9/20/2011	Tuesday	18.48	395	1270	0.74	1.49	1.78	<4.0
9/21/2011	Wednesday	17.23	367	1320				<4.0
9/27/2011	Tuesday	17.81	349	1150	0.62	1.32	1.93	<4.0
9/28/2011	Wednesday	17.35	341	1180				<4.0
10/4/2011	Tuesday	32.25	392	1130	0.60	1.59	8.92	<4.0
10/5/2011	Wednesday	21.23	302	1010				<4.0
10/11/2011	Tuesday	18.06	325	935	0.68	1.46	1.32	<4.0
10/12/2011	Wednesday	18.87	279	826				<4.0
10/18/2011	Tuesday	18.92	322	975	0.74	1.58	1.85	<4.0
10/19/2011	Wednesday	39.56	668	1070				<4.0
10/25/2011	Tuesday	20.11	402	1210	0.92	1.57	2.48	<4.0
10/26/2011	Wednesday	20.68	292	938				<4.0
11/1/2011	Tuesday	25.98	312	1040	0.60	1.23	4.04	<4.0
11/2/2011	Wednesday	24.50	290	987				<4.0
11/8/2011	Tuesday	21.94	484	1340	0.63	1.30	1.96	<4.0
11/9/2011	Wednesday	21.97	367	1150				<4.0

Table 10: Bucklin Point Influent Metals (Al - Sn)

Bucklin Point Influent Metals (Al - Sn) 2011
all anayses in ppb unless otherwise noted

Date	Day of the Week	Influent Flow (MG)	Al	Fe	Se	As	Mo	Sn
11/15/2011	Tuesday	21.63	392	997	0.79	1.40	1.66	<4.0
11/16/2011	Wednesday	38.29	397	1050				<4.0
11/21/2011	Monday	21.13	584	880				<4.0
11/22/2011	Tuesday	21.68	351	977	0.65	1.33	1.70	<4.0
11/29/2011	Tuesday	22.59	372	980	0.63	1.12	2.27	<4.0
11/30/2011	Wednesday	37.65	482	1020				<4.0
12/6/2011	Tuesday	26.59	364	1140	0.62	1.25	1.96	<4.0
12/7/2011	Wednesday	59.29	513	1110				<4.0
12/13/2011	Tuesday	26.09	189	694	0.76	1.19	1.36	<4.0
12/14/2011	Wednesday	26.23	239	773				<4.0
12/20/2011	Tuesday	22.22	355	953	0.86	1.30	2.56	4
12/21/2011	Wednesday	23.01	434	942				<4.0
12/27/2011	Tuesday	27.87	262	980	0.68	1.34	1.02	<4.0
12/28/2011	Wednesday	22.77	450	1370				<4.0
12/7/2011	Wednesday	59.29	513.00	1110.00				<4.0
12/13/2011	Tuesday	26.09	189.00	694.00	0.76	1.19	1.36	<4.0
12/14/2011	Wednesday	26.23	239.00	773.00				<4.0
12/20/2011	Tuesday	22.22	355.00	953.00	0.86	1.30	2.56	<4.0
12/21/2011	Wednesday	23.01	434.00	942.00				<4.0
12/27/2011	Tuesday	27.87	262.00	980.00	0.68	1.34	1.02	<4.0
12/28/2011	Wednesday	22.77	450.00	1370.00				<4.0

Table 10: Bucklin Point Influent Metals (Al - Sn)

Bucklin Point Effluent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
1/4/2011	Tuesday	17.01	<0.04	0.585	<10	6.89	<0.5	0.004	5.71	0.0875	39.6	<8.00
1/5/2011	Wednesday	16.69	<0.04	0.566	<10	6.62	<0.5	0.004	6.32	0.0923	40.8	<8.00
1/10/2011	Monday	15.81	0.0493	0.575	<10	10.1	<0.5		6.45	0.0624	44.5	
1/11/2011	Tuesday	15.39						0.003				<8.00
1/12/2011	Wednesday	16.33	0.0412	0.652	<10	15.3	<0.5	<0.002	8.43	0.071	45.2	<8.00
1/18/2011	Tuesday	28.26	0.0851	1.81	<10	16.2	1.04	0.002	14.8	0.199	56.6	<8.00
1/19/2011	Wednesday	30.04	<0.04	1.13	<10	10.3	0.892	0.005	12	0.112	44.3	<8.00
1/25/2011	Tuesday	17.20	0.043	1.09	<10	13.4	<0.5	0.003	6.31	0.059	40.8	
1/26/2011	Wednesday	17.35	0.0552	1.5	<10	10.1	<0.5	0.004	8.44	0.0652	39.9	<8.00
1/27/2011	Thursday	17.03										<8.00
2/1/2011	Tuesday	16.52	0.0572	1.96	<10.00	7.96	0.51	0.003	11.2	0.0699	41.2	9.6
2/2/2011	Wednesday	22.13	0.0562	2.69	<10	11.6	0.668	0.004	11.7	0.11	42.4	4.88
2/8/2011	Tuesday	25.09	<2.50	<10.0	<10	<10.0	<10.0	0.004	<10.0	<4.00	53.4	<4.00
2/9/2011	Wednesday	18.47	<2.50	<10.0	<10	<10.0	<10.0	0.003	<10.0	<4.00	47	<4.00
2/15/2011	Tuesday	17.93	<2.50	<10.0	<10	<10.0	<10.0	0.003	<10.0	<4.00	45.3	<4.00
2/16/2011	Wednesday	19.03	<2.50	<10.0	<10	10.1	<10.0	0.005	<10.0	<4.00	47.6	<4.00
2/22/2011	Tuesday	19.53	<2.50	<10.0	<10	14.6	<10.0	0.003	<10.0	<4.00	41.3	<4.00
2/23/2011	Wednesday	18.99	<2.50	<10.0	<10	<10.0	<10.0	0.004	<10.0	<4.00	40.9	<4.00
3/1/2011	Tuesday	26.31	0.035	1.24	<10	5.68	<10.0	0.003	<10.0	0.065	46.7	<4.00
3/2/2011	Wednesday	26.84	0.037	2.06	<10	8.12	<10.0	0.003	<10.0	0.058	45.3	<4.00
3/8/2011	Tuesday	39.72	0.052	3.46	<10	13.2	<10.0	0.011	<10.0	0.164	38.2	<4.00
3/9/2011	Wednesday	27.79	0.036	2.09	<10	7.04	<10.0	0.003	<10.0	0.057	30.7	<4.00
3/15/2011	Tuesday	24.18	0.05	2.52	<10	7.05	<10	0.004	<10	0.055	41	<4.00
3/16/2011	Wednesday	32.78	0.047	2.39	<10	7.46	<10	0.004	<10	0.091	37	<4.00
3/22/2011	Tuesday	23.21	0.044	2.6	<10	8.52	<10.0	0.002	13.3	0.056	37.4	<8.00
3/23/2011	Wednesday	22.35	0.055	3.88	<10	9.12	<10.0	0.002	11.5	0.054	38.2	<8.00
3/29/2011	Tuesday	19.21	0.052	2.79	<10.00	8.19	<10.0	0.002	<10.0	0.065	39.1	<4.00
3/30/2011	Wednesday	18.89	0.05	2.8	<10.00	9.53	<10.0	0.003	<10.0	0.083	38	<4.00
4/5/2011	Tuesday	21.47	0.052	4.4	<10	7.01	0.593	0.005	6.52	0.066	42	<8.00
4/6/2011	Wednesday	19.06	0.051	3.74	<10	7.33	<0.5	0.003	5.73	0.069	42.5	<8.00
4/12/2011	Tuesday	21.65	0.066	3.42	<10	9.1	0.586	0.005	6.21	0.111	44	<4.00
4/13/2011	Wednesday	41.97	0.055	3.78	10	11.2	1.64	0.015	4.79	0.212	43	<4.00
4/19/2011	Tuesday	25.37	<2.50	<10.0	<10	<10.0	<10.0	0.005	<10.0	<4.00	37.1	<4.00
4/20/2011	Wednesday	24.77	<2.50	<10.0	<10	<10.0	<10.0	0.007	<10.0	<4.00	36	4.1

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd - CN)

Bucklin Point Effluent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
4/26/2011	Tuesday	23.42	<2.50	<10.0	<10	<10.0	<10.0	0.008	<10.0	<4.00	35.9	4.13
4/27/2011	Wednesday	24.09	<2.50	<10.0	<10	<10.0	<10.0	0.007	<10.0	<4.00	35.9	<4.00
5/3/2011	Tuesday	21.48	0.042	0.611	<10	7.52	0.643	0.007	4.51	0.09	33.8	<4.00
5/4/2011	Wednesday	27.44	0.038	0.77	<10	7.1	0.837	0.008	7.69	0.045	33.8	<4.00
5/10/2011	Tuesday	20.62	0.061	0.411	<10	8.33	0.543	0.003	4.32	0.02	37.1	4.61
5/11/2011	Wednesday	20.48	0.059	0.5	<10	8.15	0.525	0.005	5.72	<0.02	37.8	<4.00
5/17/2011	Tuesday	25.95	0.037	0.811	<10	7.03	0.603	0.003	5.35	0.03	38.1	<4.00
5/18/2011	Wednesday	23.06	0.036	2.17	<10	8.72	0.677	0.005	5.3	0.031	39.4	<4.00
5/24/2011	Tuesday	26.47	0.061	0.661	<10	7.05	0.654	0.004	35.3	0.04	36.3	<4.00
5/25/2011	Wednesday	18.82	0.046	0.625	<10	6.51	0.669	0.005	8.08	0.072	37.1	<4.00
5/31/2011	Tuesday	16.87	0.053	0.743	13	6.24	0.515	0.003	5.93	0.06	38.8	<8.00
6/1/2011	Wednesday	21.68	0.049	1.07	<10	7.39	0.592	0.005	5.04	0.072	36.5	4.12
6/7/2011	Tuesday	15.99	0.045	0.808	<10	12.9	0.476	0.003	4.98	0.062	35.1	<4.00
6/8/2011	Wednesday	15.61	0.039	1.75	<10	6.45	0.532	0.003	5.71	0.08	32.2	<4.00
6/14/2011	Tuesday	18.21	0.028	2.31	<10	4.62	0.385	0.004	4.56	0.044	29.3	<4.00
6/15/2011	Wednesday	16.95	0.032	0.959	<10	5.24	0.422	0.003	8.38	0.052	33.5	<4.00
6/21/2011	Tuesday	15.84	0.041	1.04	<10	5.85	0.471	0.007	4.82	0.05	32.9	<8.00
6/22/2011	Wednesday	24.84	0.036	1.1	<10	6.14	0.532	0.006	4.35	0.08	30.3	<4.00
6/28/2011	Tuesday	16.27	0.051	0.475	<10.00	5.92	0.47	<0.002	4.08	0.05	34.7	<4.00
6/29/2011	Wednesday	16.28	0.046	0.542	<10.00	7.66	0.444	0.003	3.9	0.043	32.9	<4.00
7/5/2011	Tuesday	14.63	0.046	0.37	<10	6.19	0.357	0.004	3.18	0.04	32.1	
7/6/2011	Wednesday	15.21	0.051	0.412	<10	5.09	0.346	0.003	3.94	0.03	36.9	
7/7/2011	Thursday	14.77										<4.00
7/8/2011	Friday	24.11										<4.00
7/12/2011	Tuesday	16.13	0.04	0.518	<10	6.99	0.343	<0.002	5.76	0.04	35.1	5.27
7/13/2011	Wednesday	19.10	0.05	1.95	<10.00	8.33	0.446	<0.002	7.33	0.063	34	<4.00
7/19/2011	Tuesday	15.04	0.045	0.499	<10	10.8	0.379	0.003	5.82	0.08	32.5	<4.00
7/20/2011	Wednesday	15.26	0.051	0.999	<10	10.6	0.381	0.002	5.11	0.1	34.4	<4.00
7/26/2011	Tuesday	17.59										<4.00
7/27/2011	Wednesday	14.31										<4.00
7/28/2011	Thursday	13.98	0.053	0.464	<10	8.23	0.384	0.003	5.23	0.08	41.2	
7/29/2011	Friday	15.49	0.049	0.647	<10	8.33	0.375	0.003	6.19	0.073	37	
8/2/2011	Tuesday	15.88	0.024	2.3	<10.00	6.93	0.535	0.003	6.45	0.14	28.9	<4.00
8/3/2011	Wednesday	14.19	<0.02	1.64	<10.00	4.86	0.548	0.003	5.7	0.099	26.7	<4.00

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd - CN)

Bucklin Point Effluent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
8/9/2011	Tuesday	20.92	0.03	0.898	<10.00	5.15	0.435	0.004	5.16	0.07	35.7	<4.00
8/10/2011	Wednesday	23.82	0.032	0.898	<10.00	6.89	0.356	0.003	7.61	0.07	31.8	<8.00
8/16/2011	Tuesday	18.11	0.045	0.945	<10.00	6.1	0.342	<0.002	8.06	0.075	31.6	<4.00
8/17/2011	Wednesday	16.41	0.041	1.07	<10.00	6.55	0.372	0.002	8.15	0.1	30.7	<8.00
8/23/2011	Tuesday	14.91	0.046	2.12	<10.00	8.44	0.412	0.004	10.2	0.09	32.5	<8.00
8/24/2011	Wednesday	15.60	0.045	1.11	<10.00	9.97	0.417	0.002	10.5	0.1	30.9	<8.00
8/30/2011	Tuesday	17.05	0.034	0.872	<10.00	8.07	0.374	0.003	7.16	0.1	32	<4.00
8/31/2011	Wednesday	16.86	0.042	1.32	<10	6.34	0.439	0.004	6.75	0.11	28.6	<4.00
9/6/2011	Tuesday	34.82	0.03	0.92	<10	5.97	0.46	0.004	3.49	0.1	28.3	<4.00
9/7/2011	Wednesday	28.32	0.03	0.78	<10	7.16	0.65	0.005	3.76	0.09	27.4	<8.00
9/13/2011	Tuesday	20.12	0.05	2.17	<10	6.59	0.45	0.004	6.07	0.06	26.8	<8.00
9/14/2011	Wednesday	20.45	0.05	1.32	<10	7.63	0.35	0.003	6.39	0.05	29.4	<8.00
9/20/2011	Tuesday	18.48	0.05	0.6	<10	10	0.42	0.003	6.55	0.1	27.5	<8.00
9/21/2011	Wednesday	17.23	0.05	0.63	<10	8.96	0.37	0.003	6.81	0.09	26	<8.00
9/27/2011	Tuesday	17.81	0.05	0.89	<10	9.24	0.42	0.003	5.84	0.09	34.3	<8.00
9/28/2011	Wednesday	17.35	0.06	0.73	<10	10.7	0.54	0.008	5.46	0.1	31.3	<8.00
10/4/2011	Tuesday	29.98	0.04	1.43	<10	7.79	0.49	0.005	8.39	0.11	31.6	<8.00
10/5/2011	Wednesday	21.23	0.05	0.57	11	9.75	0.5	0.003	6.81	0.06	34.9	<8.00
10/11/2011	Tuesday	18.06	0.04	0.66	10	11.2	0.38	0.004	4.74	0.08	27.3	<4.00
10/12/2011	Wednesday	18.87	0.05	1.24	10	10.3	0.37	0.003	5.16	0.09	27.2	<4.00
10/18/2011	Tuesday	18.92	0.04	0.53	<10	7.24	0.37	0.002	7.29	0.09	34.3	<4.00
10/19/2011	Wednesday	34.17	0.04	1.16	<10	6.34	0.52	0.003	5.39	0.13	30.1	<4.00
10/25/2011	Tuesday	20.11	0.05	0.55	11	7.18	0.35	<0.002	5.1	0.07	26.6	<4.00
10/26/2011	Wednesday	20.68	0.05	0.55	<10	8.39	0.44	<0.002	4.84	0.08	27.5	<4.00
11/1/2011	Tuesday	25.98	0.03	0.51	<10	6.06	0.54	0.004	4.51	0.09	24.9	5.95
11/2/2011	Wednesday	24.50	0.04	0.69	<10	7.51	0.49	0.003	5.27	0.08	26	7.86
11/8/2011	Tuesday	21.94	0.05	2.67	<10	8.51	0.43	0.003	4.34	0.07	26.2	8.42
11/9/2011	Wednesday	21.97	0.06	1.69	<10	7.66	0.4	0.002	4.42	0.08	26.4	4.11
11/15/2011	Tuesday	21.63	0.04	0.63	<10	6.55	0.41	<0.002	4.38	0.06	24.3	<4.00
11/16/2011	Wednesday	31.96	0.04	1.33	<10	8.49	1.04	0.009	3.85	0.21	27.2	<4.00
11/21/2011	Monday	21.13	0.04	1.38	<10	6.56	0.35	0.002	3.71	0.06	27.3	
11/22/2011	Tuesday	21.68	0.06	2.38	<10	11.5	1.37	0.010	4.75	0.27	31.1	<8.00
11/23/2011	Wednesday	38.16										<8.00
11/29/2011	Tuesday	22.59	0.09	0.77	<10	7.65	0.6	0.005	3.63	0.12	31.1	<8.00

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd - CN)

Bucklin Point Effluent Metals and Cyanide (Cd - CN) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
11/30/2011	Wednesday	31.69	0.05	1.13	<10	6.96	0.39	0.003	3.11	0.08	28.1	<8.00
12/6/2011	Tuesday	26.59	0.04	1.86	<10	10.3	0.6	0.004	7.38	0.1	32.2	<8.00
12/7/2011	Wednesday	36.64	0.06	3.67	<10	13.6	1.82	0.015	4.99	0.26	33.5	<8.00
12/13/2011	Tuesday	26.09	0.04	0.52	<10	8.14	0.34	<0.002	4.21	0.04	26.4	<8.00
12/14/2011	Wednesday	26.23	0.04	0.5	<10	9.31	0.32	<0.002	4.14	0.04	26.3	<8.00
12/20/2011	Tuesday	22.22	0.04	0.79	<10	5.44	0.35	0.003	4.63	0.06	30	<8.00
12/21/2011	Wednesday	23.01	0.05	0.83	<10	5.95	0.37	0.004	4.48	0.07	25	<8.00
12/27/2011	Tuesday	27.87	0.04	0.59	<10.00	7.25	0.39	0.003	4.6	0.06	30.4	5.04
12/28/2011	Wednesday	22.77	0.04	1.33	<10.00	7.55	0.4	0.006	5.63	0.06	31.6	<4.00

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd - CN)

Bucklin Point Effluent Metals (Al - Sn) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo	Sn
1/4/2011	Tuesday	17.01	30.1	141	<1.5	1.76		<0.5
1/5/2011	Wednesday	16.69	28.8	143				<0.5
1/10/2011	Monday	15.81	33.2	130				<0.5
1/12/2011	Wednesday	16.33	35.9	135				<0.5
1/18/2011	Tuesday	28.26	83.4	350				<0.5
1/19/2011	Wednesday	30.04	56.8	211				<0.5
1/25/2011	Tuesday	17.20	31.5	163				<0.5
1/26/2011	Wednesday	17.35	34.9	166				<0.5
2/1/2011	Tuesday	16.52	36.6	176				<0.5
2/2/2011	Wednesday	22.13	46.4	265				<0.5
2/8/2011	Tuesday	25.09	75.7	155	<0.5	0.855		<0.5
2/9/2011	Wednesday	18.47	58.5	114				<0.5
2/15/2011	Tuesday	17.93	52.2	102				<0.5
2/16/2011	Wednesday	19.03	55.4	104				<0.5
2/22/2011	Tuesday	19.53	61	129				<0.5
2/23/2011	Wednesday	18.99	57.9	117				<0.5
3/1/2011	Tuesday	26.31	62.5	148				<0.5
3/2/2011	Wednesday	26.84	59.2	183				<0.5
3/8/2011	Tuesday	39.72	166	434	<0.5	0.607		<0.5
3/9/2011	Wednesday	27.79	55.3	129				<0.5
3/15/2011	Tuesday	24.18	51.43	120				<0.5
3/16/2011	Wednesday	32.78	69.69	172				<0.5
3/22/2011	Tuesday	23.21	46.6	114				<0.5
3/23/2011	Wednesday	22.35	47.6	123				<0.5
3/29/2011	Tuesday	19.21	45.3	125				<0.5
3/30/2011	Wednesday	18.89	44.2	126				<0.5
4/5/2011	Tuesday	21.47	41	116	<0.5	0.779		<0.5
4/6/2011	Wednesday	19.06	40.7	112				<0.5
4/12/2011	Tuesday	21.65	58.5	155				<0.5
4/13/2011	Wednesday	41.97	142	378				<0.5
4/19/2011	Tuesday	25.37	58.7	120				<0.5
4/20/2011	Wednesday	24.77	64.5	166				<0.5
4/26/2011	Tuesday	23.42	63.5	125				<0.5
4/27/2011	Wednesday	24.09	64.3	127				<0.5
5/3/2011	Tuesday	21.48	35.6	156	2.11	0.979	3.08	<0.5
5/4/2011	Wednesday	27.44	46.4	162				<0.5
5/10/2011	Tuesday	20.62	30.1	111				<0.5
5/11/2011	Wednesday	20.48	28.8	115				<0.5
5/17/2011	Tuesday	25.95	33.5	139				<0.5
5/18/2011	Wednesday	23.06	35.7	253				<0.5
5/24/2011	Tuesday	26.47	31.9	436				<0.5

Table 12: Bucklin Point Effluent Metals (Al - Sn)

Bucklin Point Effluent Metals (Al - Sn) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo	Sn
5/25/2011	Wednesday	18.82	34.9	150				<0.5
5/31/2011	Tuesday	16.87	193	133				<0.5
6/1/2011	Wednesday	21.68	29.1	137				<0.5
6/7/2011	Tuesday	15.99	18.8	116	<0.5	0.94	1.88	<0.5
6/8/2011	Wednesday	15.61	20.6	81.2				<0.5
6/14/2011	Tuesday	18.21	20.1	102				<0.5
6/15/2011	Wednesday	16.95	18.4	88.8				<0.5
6/21/2011	Tuesday	15.84	20.1	103				<0.5
6/22/2011	Wednesday	24.84	33.8	133				<0.5
6/28/2011	Tuesday	16.27	18.6	116				<0.5
6/29/2011	Wednesday	16.28	19	128				<0.5
7/5/2011	Tuesday	14.63	15	87.1				<0.5
7/6/2011	Wednesday	15.21	13.2	78.4				<0.5
7/12/2011	Tuesday	16.13	13.2	74.4	<0.5	0.989		<0.5
7/13/2011	Wednesday	19.10	18.8	97.4				0.558
7/19/2011	Tuesday	15.04	18.3	99.8				<0.5
7/20/2011	Wednesday	15.26	18.9	98.8				<0.5
7/28/2011	Thursday	13.98	18.8	105				<0.5
7/29/2011	Friday	15.49	17.8	127				<0.5
8/2/2011	Tuesday	15.88	15.6	226	0.582	1.27		0.551
8/3/2011	Wednesday	14.19	14.1	211				<0.5
8/9/2011	Tuesday	20.92	15.48	112.5				<0.5
8/10/2011	Wednesday	23.82	16.1	80				<0.5
8/16/2011	Tuesday	18.11	15.3	88.5				<0.5
8/17/2011	Wednesday	16.41	14.3	89.5				<0.5
8/23/2011	Tuesday	14.91	15.5	98.8				<0.5
8/24/2011	Wednesday	15.60	14.7	66.5				<0.5
8/30/2011	Tuesday	17.05	28.9	91.8				<0.5
8/31/2011	Wednesday	16.86	16.5	102				<0.5
9/6/2011	Tuesday	34.82	29.8	93				<0.5
9/7/2011	Wednesday	28.32	25.2	97.5				<0.5
9/13/2011	Tuesday	20.12	14.8	97.6	0.56	0.96		<0.5
9/14/2011	Wednesday	20.45	14.2	92.6				<0.5
9/20/2011	Tuesday	18.48	15.8	115				<0.5
9/21/2011	Wednesday	17.23	13.7	113				<0.5
9/27/2011	Tuesday	17.81	14.8	105				<5.00
9/28/2011	Wednesday	17.35	15.1	115				<5.00
10/4/2011	Tuesday	29.98	23.4	113	<0.5	1.06		<5.00
10/5/2011	Wednesday	21.23	16.1	93.1				<5.00
10/11/2011	Tuesday	18.06	13.6	109				<5.00
10/12/2011	Wednesday	18.87	18.2	109				<5.00

Table 12: Bucklin Point Effluent Metals (Al - Sn)

Bucklin Point Effluent Metals (Al - Sn) 2011
all analyses in ppb unless otherwise noted

Date	Day of the Week	Effluent Flow (MG)	Al	Fe	Se	As	Mo	Sn
10/18/2011	Tuesday	18.92	14.2	88.6				<5.00
10/19/2011	Wednesday	34.17	26.3	113				<5.00
10/25/2011	Tuesday	20.11	16.5	90.2				<5.00
10/26/2011	Wednesday	20.68	16.7	102				<5.00
11/1/2011	Tuesday	25.98	19.3	112				<5.00
11/2/2011	Wednesday	24.50	19.6	108				<5.00
11/8/2011	Tuesday	21.94	16	114	0.8	1.02		<5.00
11/9/2011	Wednesday	21.97	19.8	97.4				<5.00
11/15/2011	Tuesday	21.63	16.8	111				<5.00
11/16/2011	Wednesday	31.96	52.9	252				<5.00
11/21/2011	Monday	21.13	15.6	94.9				<5.00
11/22/2011	Tuesday	21.68	75.9	322				<5.00
11/29/2011	Tuesday	22.59	32	182				<5.00
11/30/2011	Wednesday	31.69	22.2	116				<5.00
12/6/2011	Tuesday	26.59	39.6	155	0.52	1.13		<5.00
12/7/2011	Wednesday	36.64	82.3	424				<5.00
12/13/2011	Tuesday	26.09	24.1	96.8				<5.00
12/14/2011	Wednesday	26.23	20.9	96.4				<5.00
12/20/2011	Tuesday	22.22	20.1	111				<5.00
12/21/2011	Wednesday	23.01	25.2	110				<5.00
12/27/2011	Tuesday	27.87	26.9	134				<5.00
12/28/2011	Wednesday	22.77	27.8	133				<5.00
12/7/2011	Wednesday	36.64	82	424				<5.00
12/13/2011	Tuesday	26.09	24	96.8				<5.00
12/14/2011	Wednesday	26.23	21	96.4				<5.00
12/20/2011	Tuesday	22.22	20	111				<5.00
12/21/2011	Wednesday	23.01	25	110				<5.00
12/27/2011	Tuesday	27.87	27	134				<5.00
12/28/2011	Wednesday	22.77	28	133				<5.00

Table 12: Bucklin Point Effluent Metals (Al - Sn)

Field's Point Influent and Effluent Nutrients 2011

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
1/3/2011	0.119	0.308	13.5	17	3.09	17.43
1/4/2011	0.116	0.324	15.4	19.9	3.21	20.34
1/5/2011	0.0954	0.2406	15.7	18.4	3.95	18.74
1/10/2011	0.13	0.187	15.3	20.8	3.49	21.12
1/11/2011	0.0939	0.2981	17.6	20.5	4.53	20.89
1/12/2011	0.127	0.173	18.6	21.5	3.35	21.80
1/17/2011	0.187	0.38	16.4	24	3.56	24.57
1/18/2011	0.115	0.395	11.7	15.3	2.39	15.81
1/19/2011	0.159	0.686	9.97	16.5	1.98	17.35
1/24/2011	0.188	0.547	16.2	22.5	3.5	23.24
1/25/2011	0.202	0.357	16	21	3.17	21.56
1/26/2011	0.17	0.3	16.6	20.3	3.18	20.77
1/31/2011	0.109	0.332	17	18	3.72	18.44
2/1/2011	0.142	0.299	17.2	18.7	3.27	19.14
2/2/2011	0.179	0.502	14	15.8	2.7	16.48
2/7/2011	0.12	0.775	11.2	15.9	2.37	16.80
2/8/2011	0.0741	0.9759	10.5	16.2	2.19	17.25
2/9/2011	0.0799	0.9701	12.8	18.4	3.01	19.45
2/14/2011	0.08	0.682	11.3	18.5	2.46	19.26
2/15/2011	0.108	0.742	14.2	22	3.34	22.85
2/16/2011	0.109	0.635	13.4	18.9	2.85	19.64
2/21/2011	0.108	0.813	13.2	18.5	2.88	19.42
2/22/2011	0.12	0.872	14.1	20.7	2.92	21.69
2/23/2011	0.12	0.873	13.7	21.3	3.98	22.29
2/28/2011	0.0716	1.2284	5.84	10.5	1.81	11.80
3/1/2011	0.108	1.412	7.29	12.3	1.68	13.82
3/2/2011	0.0807	1.1493	7.75	11.1	2.19	12.33
3/7/2011	0.0969	1.2231	7.27	12.8	1.57	14.12
3/8/2011	0.103	1.297	8.01	12.3	1.4	13.70
3/9/2011	0.106	1.334	9.19	12	1.97	13.44
3/14/2011	0.212	1.068	10.6	14	2.65	15.28

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
1/3/2011	1.61	2.06	6.78	8.86	1.27	12.53
1/4/2011	3.11	0.32	9.56	10.8	1.65	14.23
1/5/2011	2.04	0.12	11	12.2	2.02	14.36
1/10/2011	2.06	0.1	12.4	13.6	1.42	15.76
1/11/2011	1.33	<0.100	14.2	15.1	2.13	16.53
1/12/2011	1.66	<0.100	14.6	15.4	1.31	17.16
1/17/2011	1.46	<0.100	13.9	16.1	1.34	17.66
1/18/2011	0.563	0.311	10.7	14.7	1.35	15.57
1/19/2011	0.61	0.46	9.89	12.7	0.994	13.77
1/24/2011	1.01	0.22	14.1	15.2	1.17	16.43
1/25/2011	0.936	0.274	15.9	16.7	1.4	17.91
1/26/2011	0.943	0.317	16.3	17.3	1.45	18.56
1/31/2011	0.253	<0.100	17.1	18.2	1.61	18.55
2/1/2011	0.218	0.252	17.9	18.9	1.43	19.37
2/2/2011	0.214	0.353	14	15.8	1.32	16.37
2/7/2011	0.315	0.531	9.64	11.7	0.706	12.55
2/8/2011	0.212	0.681	10.8	12.3	0.789	13.19
2/9/2011	0.296	0.604	12	13.8	0.844	14.70
2/14/2011	0.383	0.47	9.9	11.1	0.941	11.95
2/15/2011	0.534	0.176	12.8	13.4	1.09	14.11
2/16/2011	0.459	0.405	12.8	13.9	1.12	14.76
2/21/2011	0.421	0.434	12.5	13.5	0.974	14.36
2/22/2011	0.468	0.396	12.9	14.4	0.962	15.26
2/23/2011	0.555	0.417	12.8	14	0.964	14.97
2/28/2011	0.226	1.044	7.34	8.65	0.653	9.92
3/1/2011	0.236	0.974	8.67	11.1	0.709	12.31
3/2/2011	0.163	0.917	9.26	12.3	1.08	13.38
3/7/2011	0.147	0.697	8.51	10.5	0.704	11.34
3/8/2011	0.145	0.955	9.84	11.1	0.724	12.20
3/9/2011	0.14	0.91	10.7	12.3	0.802	13.35
3/14/2011	0.242	0.652	11.7	14	0.886	14.89

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2011

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
3/15/2011	0.182	0.958	11.8	18.8	2.45	19.94
3/16/2011	0.171	0.849	9.17	15.5	1.95	16.52
3/21/2011	0.207	0.771	11.8	22.6	4.04	23.58
3/22/2011	0.2	0.779	13.3	16.4	2.81	17.38
3/23/2011	0.227	0.793	14.2	20.7	2.77	21.72
3/28/2011	0.245	0.547	14	21.9	3.66	22.69
3/29/2011	0.232	0.559	14.3	21.7	3.46	22.49
3/30/2011	0.232	0.5	14.7	17.4	3.39	18.13
4/4/2011	0.147	0.715	13.3	17.6	3.04	18.46
4/5/2011	0.115	0.649	13.4	18.9	2.82	19.66
4/6/2011	0.124	0.506	14.4	21.4	3.49	22.03
4/11/2011	0.118	0.256	15.8	21.8	3.57	22.17
4/12/2011	0.0877	0.3943	14.6	24	3.19	24.48
4/13/2011	0.0454	0.6146	5.32	7.67	1.68	8.33
4/18/2011	0.087	0.861	7.75	12.4	1.6	13.35
4/19/2011	0.0841	0.7819	8.16	13.2	1.9	14.07
4/20/2011	0.0998	0.7432	9.42	13.5	1.87	14.34
4/25/2011	0.154	0.596	11.9	20.5	2.47	21.25
4/26/2011	0.16	0.554	13.1	18.2	2.47	18.91
4/27/2011	0.226	0.471	13	19.8	2.81	20.50
5/2/2011	0.2905	0.1815	14	20.8	3.02	21.27
5/3/2011	0.245	0.1671	15.6	21.8	3.14	22.21
5/4/2011	0.123	0.368	12.4	19.9	2.89	20.39
5/9/2011	0.225	0.118	14.6	21.7	3.26	22.04
5/10/2011	0.139	0.203	15.1	20.9	3.23	21.24
5/11/2011	0.0514	0.1476	16.2	20.2	2.85	20.40
5/16/2011	0.248	0.516	12.3	17.9	2.24	18.66
5/17/2011	0.249	0.411	12.3	18.4	2.23	19.06
5/18/2011	0.272	0.357	13.7	18.9	2.4	19.53
5/23/2011	0.365	0.524	12.8	20.7	3.42	21.59
5/24/2011	0.404	0.726	11.6	18.2	2.9	19.33

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
3/15/2011	0.172	0.597	12.7	15.5	0.997	16.27
3/16/2011	0.136	0.634	9.74	12.2	0.757	12.97
3/21/2011	0.144	0.483	10.9	12.5	0.749	13.13
3/22/2011	0.148	0.391	13.9	15.6	0.896	16.14
3/23/2011	0.148	0.411	14	15.5	0.92	16.06
3/28/2011	0.132	0.297	14.7	16.7	1.06	17.13
3/29/2011	0.131	0.236	14.4	15.9	1.13	16.27
3/30/2011	0.147	0.177	15.1	16.7	1.33	17.02
4/4/2011	0.107	0.135	13.3	14.4	1.24	14.64
4/5/2011	0.0485	<0.100	13.8	15.2	1.21	15.35
4/6/2011	0.0698	<0.100	13.9	15.1	1.28	15.27
4/11/2011	0.0971	<0.100	16.7	18.7	1.69	18.90
4/12/2011	0.0987	0.3623	7.33	8.12	0.933	8.58
4/13/2011	0.104	0.513	7.58	9.41	0.99	10.03
4/18/2011	0.13	0.516	8.54	10.7	0.763	11.35
4/19/2011	0.113	0.402	10	11.1	0.79	11.62
4/20/2011	0.0986	0.3814	9.17	10.5	0.691	10.98
4/25/2011	0.0837	0.1893	13.7	15	1.07	15.27
4/26/2011	0.0748	0.1742	14.9	18.7	1.24	18.95
4/27/2011	0.0714	0.1746	14.5	15.4	1.21	15.65
5/2/2011	0.088	<0.100	16.3	18.8	1.74	18.99
5/3/2011	0.102	<0.100	17.4	19	1.71	19.20
5/4/2011	0.0971	0.1149	13.2	15.5	1.72	15.71
5/9/2011	0.285	<0.100	14.6	16.7	1.77	17.09
5/10/2011	0.282	<0.100	15.9	17.8	1.72	18.18
5/11/2011	0.0448	<0.100	16.7	18.1	1.78	18.24
5/16/2011	0.168	0.137	12.6	15.5	1.36	15.81
5/17/2011	0.176	<0.100	13.4	15.1	1.38	15.38
5/18/2011	0.161	0.102	13.8	15.1	1.6	15.36
5/23/2011	0.165	0.152	12.3	13	1.13	13.32
5/24/2011	0.148	<0.100	11.9	14.3	1.2	14.55

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2011

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
5/25/2011	0.392	0.495	11.9	20.2	3.02	21.09
5/30/2011	0.182	0.447	13	22.2	3.05	22.83
5/31/2011	0.173	0.446	14.7	23	3.14	23.62
6/1/2011	0.162	0.462	13.3	18.5	2.04	19.12
6/6/2011	0.0353	0.1037	14.4	22.9	3.66	23.04
6/7/2011	0.0278	<0.100	15.7	26.1	3.4	26.23
6/8/2011	0.0301	0.1049	14.2	22.6	3.36	22.74
6/13/2011	0.0744	0.1846	10.2	11.3	1.55	11.56
6/14/2011	0.0428	0.1132	11.6	17	1.9	17.16
6/15/2011	0.0187	0.1093	15.2	22.4	2.78	22.53
6/20/2011	0.0874	<0.100	15.5	23.1	3.82	23.29
6/21/2011	0.149	<0.100	15.7	22.1	3.54	22.35
6/22/2011	0.201	0.114	10.8	16.9	2.79	17.22
6/27/2011	0.346	<0.100	16.3	20.5	3.19	20.95
6/28/2011	0.335	<0.100	15.9	25.1	3.95	25.54
6/29/2011	0.316	<0.100	14.2	21.4	3.3	21.82
7/4/2011	0.265	<0.100	13.4	20.7	2.88	21.07
7/5/2011	0.321	<0.100	14.9	21.7	3.52	22.12
7/6/2011	0.314	<0.100	14	22.7	2.83	23.11
7/11/2011	0.339	0.143	9.52	12.5	1.95	12.98
7/12/2011	0.347	0.199	13.4	19	3.08	19.55
7/13/2011	0.325	0.203	10.8	17.4	3.14	17.93
7/18/2011	<0.01	<0.100	14	20.9	2.9	21.01
7/19/2011	0.0238	0.1052	16.8	24.9	2.48	25.03
7/20/2011	0.0208	<0.100	16.3	22.7	2.82	22.82
7/25/2011	0.0424	<0.100	18	29	3.24	29.14
7/26/2011	0.0901	0.1449	16.9	20.9	2.74	21.14
7/27/2011	0.148	0.262	17	24.1	3.12	24.51
8/1/2011	0.0531	<0.100	18.2	26.1	3.33	26.25
8/2/2011	0.0173	<0.100	18	27.2	2.83	27.32
8/3/2011	0.0188	<0.100	17.1	20.6	3.13	20.72

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
5/25/2011	0.138	<0.100	12.8	16	1.38	16.24
5/30/2011	0.18	<0.100	14.5	17.9	1.48	18.18
5/31/2011	0.159	<0.100	15	17.7	1.72	17.96
6/1/2011	0.18	<0.100	13.5	15.9	1.63	16.18
6/6/2011	0.54	<0.100	14.4	16.6	1.94	17.24
6/7/2011	0.745	<0.100	14.8	17.6	1.84	18.45
6/8/2011	1.03	<0.100	12.6	15	1.81	16.13
6/13/2011	0.753	0.109	6.75	9.63	0.878	10.49
6/14/2011	0.331	<0.100	10.8	12.7	0.964	13.13
6/15/2011	0.818	<0.100	12.4	14.7	1.03	15.62
6/20/2011	1.26	0.22	13.4	15.7	2.03	17.18
6/21/2011	2.28	1.28	11.8	15.2	2.11	18.76
6/22/2011	1.27	0.3	8.12	9.83	1.47	11.40
6/27/2011	2.44	0.31	9.17	11.2	2.01	13.95
6/28/2011	2.17	0.23	8.57	9.62	1.75	12.02
6/29/2011	2.44	0.34	8.32	10	1.83	12.78
7/4/2011	2.56	1.09	5.76	7.8	1.64	11.45
7/5/2011	1.81	0.56	6.68	9.79	2.15	12.16
7/6/2011	2.13	0.27	7.83	11.3	2.02	13.70
7/11/2011	1.16	0.5	5.39	6.7	0.838	8.36
7/12/2011	2.54	0.63	7.22	9.35	1.09	12.52
7/13/2011	1.94	0.84	6.12	8.84	1.54	11.62
7/18/2011	1.27	1.13	7.26	9.8	1.62	12.20
7/19/2011	1.75	2.16	9.12	12.3	1.46	16.21
7/20/2011	1.59	3.46	8.42	11.5	1.6	16.55
7/25/2011	0.492	7.258	7.94	11.8	1.88	19.55
7/26/2011	0.253	6.187	6.93	10.7	1.95	17.14
7/27/2011	0.27	8.45	5.14	8.35	1.91	17.07
8/1/2011	0.181	8.049	5	7.37	1.94	15.60
8/2/2011	0.205	10.195	3.86	5.82	2.19	16.22
8/3/2011	0.174	11.626	2.76	4.77	2.17	16.57

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2011

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
8/8/2011	0.0397	<0.100	8.13	9.4	1.53	9.54
8/9/2011	0.0544	0.1106	10.5	11.1	1.85	11.27
8/10/2011	0.0878	0.1642	9.64	12.6	1.86	12.85
8/15/2011	0.256	0.269	5.65	6.24	1.24	6.77
8/16/2011	0.305	0.159	7.24	8.75	1.04	9.21
8/17/2011	0.262	<0.100	8.35	10.9	1.67	11.26
8/22/2011	0.348	0.133	13.5	20.4	2.88	20.88
8/23/2011	0.504	<0.100	14.2	21.1	3.05	21.70
8/24/2011	0.483	<0.100	18	20.9	2.97	21.48
8/29/2011	0.402	0.195	10.3	13.4	1.69	14.00
8/30/2011	0.35	0.117	12.2	14.3	2.16	14.77
8/31/2011	0.36	<0.100	13.1	19.8	2.7	20.26
9/5/2011	0.396	0.117	14.9	22.3	2.89	22.81
9/6/2011	0.278	0.402	6.79	11.7	1.4	12.38
9/7/2011	0.337	0.412	7.95	11.1	1.35	11.85
9/12/2011	0.229	0.24	11	15.4	2.22	15.87
9/13/2011	0.0748	0.1202	14.8	20.9	2.82	21.10
9/14/2011	0.248	0.294	14.2	19.4	2.99	19.94
9/19/2011	0.228	0.2	16.6	22.6	3.51	23.03
9/20/2011	0.247	0.325	15.1	17.9	3.28	18.47
9/21/2011	0.297	0.365	14.9	17.7	3.51	18.36
9/26/2011	0.224	0.418	16.9	27	3.1	27.64
9/27/2011	0.254	0.419	14	21.3	2.91	21.97
9/28/2011	0.179	0.363	13.2	18.7	3.34	19.24
10/3/2011	0.0355	<0.100	14.8	21.6	3.02	21.74
10/4/2011	0.136	0.427	9.02	13.1	2	13.66
10/5/2011	0.0712	0.1378	12.7	17.2	2.42	17.41
10/10/2011	0.038	0.26	13.6	17.9	2.95	18.20
10/11/2011	0.0228	0.1072	15.7	20.2	3.43	20.33
10/12/2011	0.0227	0.1113	15.1	19.5	2.85	19.63
10/17/2011	0.302	4.308		20.7	3.03	25.31

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
8/8/2011	0.146	2.454	3.52	5.33	1.1	7.93
8/9/2011	0.106	3.804	2.62	4.3	1.22	8.21
8/10/2011	0.158	2.762	3.64	5.44	1.14	8.36
8/15/2011	0.129	3.671	2	3.63	1.03	7.43
8/16/2011	0.158	3.172	2.59	4.89	0.866	8.22
8/17/2011	0.215	3.115	3.22	4.75	0.932	8.08
8/22/2011	0.482	3.188	4.34	5.53	1.16	9.20
8/23/2011	0.148	6.412	2.73	4.1	0.962	10.66
8/24/2011	0.199	8.151	2.79	4.19	1.25	12.54
8/29/2011	0.485	2.415	3.42	5.5	1.21	8.40
8/30/2011	0.557	2.493	3.23	4.94	0.982	7.99
8/31/2011	0.239	5.381	2.43	3.78	0.67	9.40
9/5/2011	0.157	3.663	5.21	7.29	1.4	11.11
9/6/2011	0.146	3.194	2.21	4.34	0.866	7.68
9/7/2011	0.123	2.797	2.34	5.06	0.847	7.98
9/12/2011	0.25	3.09	5.89	8.03	0.762	11.37
9/13/2011	0.334	4.696	5.96	6.6	0.57	11.63
9/14/2011	0.269	4.721	5.41	6	0.417	10.99
9/19/2011	0.397	6.163	5.14	6.61	1.02	13.17
9/20/2011	0.312	5.708	4.63	6.75	1.23	12.77
9/21/2011	0.328	5.462	5.16	7.45	1.19	13.24
9/26/2011	0.418	5.302	5.45	7.06	0.829	12.78
9/27/2011	0.322	5.828	4.03	5.26	1.08	11.41
9/28/2011	0.307	4.393	4.58	5.92	1.72	10.62
10/3/2011	0.423	3.767	5.37	6.37	1.16	10.56
10/4/2011	0.388	3.012	4.03	5.4	0.838	8.80
10/5/2011	0.527	4.493	4.89	6.15	0.641	11.17
10/10/2011	0.226	5.604	2.46	4.29	1.27	10.12
10/11/2011	0.356	2.934	6.52	8.69	1.74	11.98
10/12/2011	0.392	1.368	8.39	9.93	2.37	11.69
10/17/2011	0.557	4.253	3.46	4.94	0.733	9.75

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2011

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
10/18/2011	0.056	0.106	15.3	19.3	3.56	19.46
10/19/2011	0.106	0.399	6.01	8.47	1.36	8.98
10/24/2011	0.0954	0.1636	15.4	19.2	3.89	19.46
10/25/2011	0.0773	0.1147	14.6	19.4	3.73	19.59
10/26/2011	0.0947	0.1253	14.8	20.8	3.25	21.02
10/31/2011	0.404	0.666	8.54	9.87	2.03	10.94
11/1/2011	0.431	0.501	9.24	15.3	2.21	16.23
11/2/2011	0.511	0.342	10.3	16.8	2.67	17.65
11/7/2011	0.102	0.196	14.8	21.9	2.95	22.20
11/8/2011	0.0666	0.1864	15.4	24.2	2.98	24.45
11/9/2011	0.045	0.196	14.5	23.4	3.37	23.64
11/14/2011	0.0873	0.1617	15.7	23.9	3.36	24.15
11/15/2011	0.0675	0.2405	12.8	20.6	2.78	20.91
11/16/2011	0.0868	0.3622	11.2	18.6	3.32	19.05
11/21/2011	0.0303	0.1497	14.7	21.4	3.47	21.58
11/22/2011	0.0768	0.2202	11.8	17.9	2.73	18.20
11/23/2011	0.0691	0.6729	7.25	11.4	1.59	12.14
11/28/2011	0.0664	0.2016	15.1	21.1	3.05	21.37
11/29/2011	0.0779	0.1771	10.7	15.1	2.72	15.36
11/30/2011	0.0948	0.8342	11.4	18.5	2.87	19.43
12/5/2011	0.0717	0.1643	14.8	24.1	3.56	24.34
12/6/2011	0.108	0.275	14.5	23.3	3.53	23.68
12/7/2011	0.0479	0.6441	4.01	6.52	1.37	7.21
12/12/2011	0.113	0.749	8.62	15.2	2.13	16.06
12/13/2011	0.118	0.606	9.8	16.6	2.16	17.32
12/14/2011	0.157	0.599	12.5	32.5	2.82	33.26
12/19/2011	0.11	0.156	12	21.1	3.05	21.37
12/20/2011	0.102	0.186	12.1	20.9	3.29	21.19
12/21/2011	0.114	0.261	13.8	20.5	2.61	20.88
12/26/2011	0.0794	0.1536	12.1	22.7	2.96	22.93
12/27/2011	0.077	0.375	13.6	21.5	4.71	21.95

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
10/18/2011	0.386	4.954	3.93	5.74	1.33	11.08
10/19/2011	0.323	2.427	2.35	3.69	1.8	6.44
10/24/2011	0.726	1.564	7.12	8.76	2.32	11.05
10/25/2011	0.221	0.546	11.4	12.2	1.43	12.97
10/26/2011	0.651	2.089	8.52	11.2	0.92	13.94
10/31/2011	0.797	1.113	5.95	7.77	0.973	9.68
11/1/2011	0.739	1.151	6.4	8.5	0.855	10.39
11/2/2011	0.788	3.062	4.44	6.13	0.56	9.98
11/7/2011	0.632	4.098	4.89	7.08	1.55	11.81
11/8/2011	0.742	4.568	4.22	5.83	1.25	11.14
11/9/2011	0.585	5.095	3.38	5.82	1.18	11.50
11/14/2011	0.436	5.724	2.92	5.12	1.21	11.28
11/15/2011	0.391	6.069	3.19	4.66	1.06	11.12
11/16/2011	0.235	4.705	2.23	3.7	1.32	8.64
11/21/2011	0.822	4.938	2.34	3.69	1.04	9.45
11/22/2011	0.243	4.187	3.02	4.29	1.29	8.72
11/23/2011	0.25		2.73		0.857	0.25
11/28/2011	1.01	2.86	5.84	8.09	0.985	11.96
11/29/2011	0.261	3.409	3.81	5.39	0.816	9.06
11/30/2011	0.188	1.272	8.11	9.77	1.26	11.23
12/5/2011	0.301	5.369	4.11	5.47	1.55	11.14
12/6/2011	0.31	4.61	5.06	6.01	1.75	10.93
12/7/2011	0.107	3.003	1.55	2.77	1.26	5.88
12/12/2011	0.382	2.378	4.22	5.31	0.746	8.07
12/13/2011	0.365	2.525	5.23	7.3	0.593	10.19
12/14/2011	0.395	2.935	7.01	9.29	0.596	12.62
12/19/2011	0.191	1.509	7.69	9.17	1.28	10.87
12/20/2011	0.204	1.836	7.37	9.3	1.27	11.34
12/21/2011	0.26	2.69	7.24	9.46	0.987	12.41
12/26/2011	0.269	2.661	6.16	8.36	1.07	11.29
12/27/2011	0.237	2.523	6.13	8.68	1.07	11.44

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2011

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
12/28/2011	0.113	0.421	8.98	15.4	2.08	15.93

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
12/28/2011	0.284	3.146	5.05	7.12	0.745	10.55

Table 13: Field's Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
1/3/2011	0.148	0.419	14.3	19.5	4.67	20.07
1/4/2011	0.132	0.264	16.5	23.4	4.64	23.80
1/5/2011	0.162	<0.100	16.3	23.7	5.03	23.96
1/10/2011	0.118	0.302	19	25	5.2	25.42
1/11/2011	0.147	0.36	19.2	30.2	5.89	30.71
1/12/2011	0.145	0.364	18.2	23.7	4.54	24.21
1/17/2011	0.142	0.265	19.4	30.2	4.73	30.61
1/18/2011	0.204	0.269	19	23.3	4.47	23.77
1/19/2011	0.0787	0.6903	9.67	16.6	2.8	17.37
1/24/2011	0.117	0.432	17.9	25.5	4.26	26.05
1/25/2011	0.17	0.34	17.6	27	5.72	27.51
1/26/2011	0.184	0.168	18.3	29.7	7.51	30.05
1/31/2011	0.116	0.102	19.4	30.4	5.13	30.62
2/1/2011	0.203	0.381	18.5	33	4.62	33.58
2/2/2011	0.114	0.113	16.8	29.3	5.61	29.53
2/7/2011	0.144	1.036	13.8	18.5	3.02	19.68
2/8/2011	0.123	1.057	12.5	17.6	2.99	18.78
2/9/2011	0.153	1.097	14.1	20.2	3.25	21.45
2/14/2011	0.233	0.72	16.1	33.6	4.47	34.55
2/15/2011	0.132	1.138	15.2	22.4	2.99	23.67
2/16/2011	0.169	0.769	17.6	24.8	3.62	25.74
2/21/2011	0.179	1.201	14.4	20.6	3.51	21.98
2/22/2011	0.179	1.111	14.4	20.6	3.19	21.89
2/23/2011	0.201	0.631	14.6	26.9	5.05	27.73
2/28/2011	0.165	1.965	10.1	16.3	2.55	18.43
3/1/2011	0.17	2.11	9.52	15.3	2.71	17.58
3/2/2011	0.19	2.04	10.6	17	3.2	19.23
3/7/2011	0.146	1.984	7.3	12.5	2.07	14.63
3/8/2011	0.108	2.392	6.95	11.1	1.65	13.60
3/9/2011	0.14	2.63	8.14	11	1.98	13.77
3/14/2011	0.191	2.249	10.3	18.7	2.29	21.14

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
1/3/2011	0.145	4.885	1.04	1.85	1.94	6.88
1/4/2011	0.152	2.938	2.8	3.72	2.8	6.81
1/5/2011	0.188	5.182	1.5	2.26	2.25	7.63
1/10/2011	0.0836	5.6464	0.366	1.34	2.25	7.07
1/11/2011	0.154	5.056	1.13	2.02	2.5	7.23
1/12/2011	0.0818	6.6682	0.35	1.36	2.93	8.11
1/17/2011	0.1	5.52	0.732	1.8	2.33	7.42
1/18/2011	0.109	3.701	1.85	3.86	2.53	7.67
1/19/2011	0.141	2.539	4.61	6.37	1.51	9.05
1/24/2011	0.121	3.359	0.73	1.69	1.48	5.17
1/25/2011	0.137	3.833	1.16	2.14	1.95	6.11
1/26/2011	0.0576	3.5024	0.193	1.35	1.93	4.91
1/31/2011	0.104	4.516	0.895	1.79	2.27	6.41
2/1/2011	0.106	4.834	0.761	1.75	2.39	6.69
2/2/2011	0.127	3.213	3.65	5.18	2.78	8.52
2/7/2011	0.229	3.281	3.35	4.65	1.64	8.16
2/8/2011	0.202	3.518	2.4	3.5	1.7	7.22
2/9/2011	0.186	3.554	1.47	2.43	1.48	6.17
2/14/2011	0.0846	5.2654	0.879	1.86	1.79	7.21
2/15/2011	0.0404	5.6396	0.459	1.43	1.69	7.11
2/16/2011	0.0444	6.2956	0.373	1.31	1.83	7.65
2/21/2011	0.06	7.49	0.358	1.32	1.71	8.87
2/22/2011	0.0628	7.3472	0.371	1.5	2.05	8.91
2/23/2011	0.0668	7.1532	0.396	1.47	2.03	8.69
2/28/2011	0.135	7.045	0.598	2.01	1.82	9.19
3/1/2011	0.1	7.74	0.382	1.41	1.54	9.25
3/2/2011	0.0699	5.9401	0.185	1.18	1.17	7.19
3/7/2011	0.19	5.03	0.707	3.2	2.1	8.42
3/8/2011	0.0284	4.1116	<0.1	2.44	1.05	6.58
3/9/2011	0.0815	4.8685	0.147	1.11	0.658	6.06
3/14/2011	0.0402	5.6698	0.102	1.1	1.4	6.81

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
3/15/2011	0.224	1.696	11.3	17.4	3.29	19.32
3/16/2011	0.177	1.713	10.1	19.3	2.99	21.19
3/21/2011	0.216	1.944	12.5	21.9	3.5	24.06
3/22/2011	0.188	1.572	10.4	20.2	3.79	21.96
3/23/2011	0.233	1.617	12.4	18.4	3.84	20.25
3/28/2011	0.402	0.808	14.2	28.3	4.26	29.51
3/29/2011	0.447	0.573	14.5	27	4.48	28.02
3/30/2011	0.358	0.952	14.2	25.2	4.14	26.51
4/4/2011	0.229	1.571	15	23	3.4	24.80
4/5/2011	0.4	0.95	14.7	21.4	3.81	22.75
4/6/2011	0.467	0.603	14.4	20.4	3.79	21.47
4/11/2011	0.363	0.927	16.1	25.9	5.25	27.19
4/12/2011	0.429	0.601	17.8	26.3	4.15	27.33
4/13/2011	0.104	1.046	8.49	14.2	2.92	15.35
4/18/2011	0.199	2.311	15.1	20.1	3.33	22.61
4/19/2011	0.274	1.426	12.2	21.2	4.03	22.90
4/20/2011	0.236	1.574	11.8	15.2	2.98	17.01
4/25/2011	0.27	1.52	11.8	13.9	2.92	15.69
4/26/2011	0.31	1.08	11.7	15.3	3.12	16.69
4/27/2011	0.256	1.394	11.2	22.9	3.55	24.55
5/2/2011	0.357	0.8532	13.5	15.9	5.75	17.11
5/3/2011	0.4327	0.5973	14	23.5	3.59	24.53
5/4/2011	0.614	0.736	14.1	22.6	5.2	23.95
5/9/2011	0.47	0.66	15.3	21.7	3.57	22.83
5/10/2011	0.6	<0.100	18.3	26.6	4.16	27.30
5/11/2011	0.516	<0.100	16.1	25.3	4.28	25.92
5/16/2011	0.286	1.264	12.8	17	2.55	18.55
5/17/2011	0.657	0.543	15.5	19.6	3.12	20.80
5/18/2011	0.328	1.082	12.4	18.3	2.83	19.71
5/19/2011						
5/20/2011						

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
3/15/2011	0.095	5.045	0.31	1.42	1.72	6.56
3/16/2011	0.07	5.06	0.317	1.44	1.68	6.57
3/21/2011	0.105	5.955	1.33	2.39	1.79	8.45
3/22/2011	0.0871	5.7829	0.536	1.46	1.63	7.33
3/23/2011	0.0715	5.3785	0.692	1.64	1.55	7.09
3/28/2011	0.0739	4.3861	4.55	5.79	1.96	10.25
3/29/2011	0.0752	3.8248	4.87	6.03	2	9.93
3/30/2011	0.085	3.725	4.9	5.93	2.18	9.74
4/4/2011	0.19	2.95	5.33	6.1	1.72	9.24
4/5/2011	0.193	3.327	3.26	4.01	1.76	7.53
4/6/2011	0.183	3.067	2.69	3.64	2.02	6.89
4/11/2011	0.232	3.978	2.08	3.28	2.11	7.49
4/12/2011	0.244	3.246	3.39	5.01	2.77	8.50
4/13/2011	0.167	2.063	1.31	4.09	1.85	6.32
4/18/2011	0.335	2.265	3.68	5.04	1.17	7.64
4/19/2011	0.338	1.942	3.18	4.96	0.728	7.24
4/20/2011	0.0895	0.5015	8.92	9.92	2.57	10.51
4/25/2011	0.21	2.12	4.02	4.97	1.73	7.30
4/26/2011	0.238	1.522	6.48	7.22	1.76	8.98
4/27/2011	0.32	2.11	5.63	6.92	0.748	9.35
5/2/2011	0.246	3.824	1.17	2.5	2.09	6.57
5/3/2011	0.314	1.8863	6.31	7.73	3.62	9.93
5/4/2011	0.515	3.865	3.17	4.68	2.6	9.06
5/9/2011	0.129	5.761	0.311	1.51	2.7	7.40
5/10/2011	0.0893	5.4807	0.21	1.48	2.74	7.05
5/11/2011	0.0901	5.9699	0.212	1.36	2.97	7.42
5/16/2011	0.294	5.016	0.583	1.81	2.34	7.12
5/17/2011	0.157	5.613	0.248	1.79	2.58	7.56
5/18/2011	0.116	6.024	0.169	1.39	2.35	7.53
5/19/2011				1.97		1.97
5/20/2011				1.3		1.30

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
5/23/2011	0.239	0.981	15.1	22.5	3.19	23.72
5/24/2011	0.24	0.725	12.7	23.2	2.85	24.17
5/25/2011	0.274	0.886	13.8	21.6	2.02	22.76
5/30/2011	0.365	0.725	15	21.5	2.86	22.59
5/31/2011	0.467	0.379	14.6	22	3.31	22.85
6/1/2011	0.441	<0.100	14.1	29.7	4.47	30.24
6/6/2011	0.714	0.112	17.2	22.3	3.88	23.13
6/7/2011	0.566	<0.100	16.1	28.1	4.88	28.77
6/8/2011	0.261	1.079	15	23.1	3.35	24.44
6/13/2011	0.555	<0.100	14.6	23.1	3.04	23.76
6/14/2011	0.3	0.98	15.9	25.7	3.71	26.98
6/15/2011	0.105	<0.100	19.1	31.8	5.13	32.01
6/20/2011	0.0262	<0.100	18.5	30.9	5.39	31.03
6/21/2011	0.0205	0.1355	18.5	33.4	5.46	33.56
6/22/2011	0.034	0.125	17.7	33.8	4.38	33.96
6/27/2011	0.559	<0.100	16	23.3	3.66	23.96
6/28/2011	0.45	<0.100	16.5	24.7	4.63	25.25
6/29/2011	0.428	<0.100	15.8	28.8	4.84	29.33
7/4/2011	0.296	0.145	17.8	27.8	4.36	28.24
7/5/2011	0.401	<0.100	17.1	24.4	3.63	24.90
7/6/2011	0.0514	0.1236	17.5	32.2	4.6	32.38
7/11/2011	0.469	0.408	14.3	25.6	3.66	26.48
7/12/2011	0.385	<0.100	16.1	26.6	5.03	27.09
7/13/2011	0.201	0.137	15.2	37.2	4.86	37.54
7/18/2011	0.513	<0.100	17.6	32.2	3.95	32.81
7/19/2011	0.272	<0.100	17.2	27.9	3.78	28.27
7/20/2011	0.0947	<0.100	17.6	37.9	4.8	38.09
7/25/2011	0.439	<0.100	19.9	31.6	4.08	32.14
7/26/2011	NM	NM	NM	NM	NM	
7/27/2011						
8/1/2011	0.302	<0.100	19.5	33.9	4.32	34.30

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
5/23/2011	0.0648	5.6952	0.196	1.42	2.15	7.18
5/24/2011	0.121	4.909	1.38	2.6	2.34	7.63
5/25/2011	0.0846	6.4554	0.281	1.57	2.61	8.11
5/30/2011	0.0483	5.4817	<0.1	1.43	2.4	6.96
5/31/2011	0.0468	4.8232	<0.1	1.35	2.41	6.22
6/1/2011	0.113	4.517	0.244	1.62	2.68	6.25
6/6/2011	0.289	4.161	1.48	2.72	2.73	7.17
6/7/2011	0.0778	4.5722	0.234	1.55	1.73	6.20
6/8/2011	0.062	4.928	0.193	1.67	2.29	6.66
6/13/2011	0.039	6.871	0.161	1.33	2.13	8.24
6/14/2011	0.0402	6.3698	0.177	1.33	2.42	7.74
6/15/2011	0.0481	5.5219	0.2	1.37	2.51	6.94
6/20/2011	0.0393	5.5507	0.264	1.24	2.31	6.83
6/21/2011	0.0322	5.4678	0.193	1.38	2.31	6.88
6/22/2011	0.0685	5.1515	0.798	1.96	2.37	7.18
6/27/2011	0.0275	5.8625	0.192	1.02	2.47	6.91
6/28/2011	0.0285	3.8115	0.186	0.908	2.38	4.75
6/29/2011	0.0279	5.8021	0.185	1.13	2.68	6.96
7/4/2011	0.0174	4.7126	0.17	1.03	2.42	5.76
7/5/2011	0.0178	4.9122	0.155	0.907	2.57	5.84
7/6/2011	0.0212	3.7188	0.16	1	2.4	4.74
7/11/2011	0.0194	6.2106	0.145	0.941	2.52	7.17
7/12/2011	0.0233	4.8367	0.145	0.973	2.88	5.83
7/13/2011	0.0264	4.7636	0.164	1.12	2.78	5.91
7/18/2011	0.0226	6.7674	0.108	1.13	3.03	7.92
7/19/2011	0.0271	5.7629	0.103	1.22	2.95	7.01
7/20/2011	0.0317	5.2783	0.12	1.36	2.87	6.67
7/25/2011	0.0512	6.1988	0.165	1.5	2.83	7.75
7/26/2011	0.0799	5.2901	0.285	1.74	2.85	7.11
7/27/2011	0.0631	4.9269	0.182	1.66	2.57	6.65
8/1/2011	0.05	5.41	0.372	1.56	2.54	7.02

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
8/2/2011	0.105	<0.100	18.8	32.5	5.16	32.71
8/3/2011	0.726	<0.100	16.6	24.6	3.67	25.43
8/5/2011						
8/6/2011						
8/7/2011						
8/8/2011	0.353	1.637	13.8	20.8	2.83	22.79
8/9/2011	0.662	0.408	15.6	27.1	5	28.17
8/10/2011	0.271	1.209	12.8	21.3	3.45	22.78
8/15/2011	0.428	0.942	12.2	16.9	3.73	18.27
8/16/2011	0.228	1.222	12.6	17.5	2.85	18.95
8/17/2011	0.837	<0.100	14.8	16.4	3.5	17.34
8/22/2011	0.395	0.975	13	20.4	2.94	21.77
8/23/2011	0.883	<0.100	16.6	27.4	3.95	28.38
8/24/2011	0.699	<0.100	16.9	23.6	3.93	24.40
8/29/2011	0.223	2.037	12.7	15.8	2.47	18.06
8/30/2011	0.86	0.2	11.5	17.6	3.01	18.66
8/31/2011	0.653	<0.100	13.6	23.7	3.58	24.45
9/5/2011	0.51	0.94	16.1	29	3.49	30.45
9/6/2011	0.493	0.557	11.7	20.3	3.08	21.35
9/7/2011	0.102	1.528	6.15	9.29	1.43	10.92
9/12/2011	0.0374	<0.100	14.4	21.3	2.9	21.44
9/13/2011	0.0395	0.1075	15.3	23.7	3.35	23.85
9/14/2011	0.0374	<0.100	14.5	21.9	3.86	22.04
9/19/2011	0.0364	<0.100	16.8	26.1	5.22	26.24
9/20/2011	0.0332	0.1008	17	25.6	5.21	25.73
9/21/2011	0.0473	<0.100	16.5	21.5	4.39	21.65
9/26/2011	0.044	<0.100	15	23.7	3.25	23.84
9/27/2011	0.0354	<0.100	15.7	24.7	3.54	24.84
9/28/2011	0.0319	<0.100	16.1	24	3.87	24.13
10/3/2011	0.24	0.93	15.8	22.8	3.96	23.97
10/4/2011	0.158	0.222	11.8	17.8	3.65	18.18

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
8/2/2011	0.0257	1.0343	9.03	10.8	4.56	11.86
8/3/2011	0.146	2.014	10.8	12.1	1.41	14.26
8/5/2011				1.21		1.21
8/6/2011				1.09		1.09
8/7/2011				0.881		0.88
8/8/2011	0.0397	4.7803	0.149	0.861	1.65	5.68
8/9/2011	0.0388	4.0412	0.162	0.903	1.85	4.98
8/10/2011	0.0297	4.1603	0.148	0.952	1.48	5.14
8/15/2011	0.0244	3.7456	0.149	1.08	1.93	4.85
8/16/2011	0.0336	5.5864	0.128	0.733	1.86	6.35
8/17/2011	0.0326	4.7374	0.147	1.07	2.14	5.84
8/22/2011	0.0169	4.6331	0.169	0.844	1.78	5.49
8/23/2011	0.0179	5.4221	0.164	1.01	2.2	6.45
8/24/2011	0.02	5.34	0.141	1.13	2.41	6.49
8/29/2011	0.0368	8.7232	0.6	1.19	1.95	9.95
8/30/2011	0.0201	4.8099	0.152	0.901	1.38	5.73
8/31/2011	0.0287	4.2013	0.152	0.893	1.6	5.12
9/5/2011	0.0258	4.4042	0.104	0.945	1.81	5.38
9/6/2011	0.0248	3.9452	0.166	1.07	1.53	5.04
9/7/2011	0.0272	4.8428	0.219	0.963	1.28	5.83
9/12/2011	0.0244	4.3556	0.127	0.829	1.74	5.21
9/13/2011	0.0252	4.0948	<0.1	0.94	1.89	5.06
9/14/2011	0.0258	4.1242	0.103	0.923	1.93	5.07
9/19/2011	0.0258	5.6042	0.119	0.983	1.88	6.61
9/20/2011	0.0211	5.7089	0.132	1.04	2.11	6.77
9/21/2011	0.0248	5.1552	0.154	1.18	2.27	6.36
9/26/2011	0.0281	5.4619	0.109	1.04	1.86	6.53
9/27/2011	0.0255	5.3845	0.113	1.06	2	6.47
9/28/2011	0.03	5.76	0.105	1.16	2.08	6.95
10/3/2011	0.0332	6.2868	0.162	0.908	1.78	7.23
10/4/2011	0.0202	5.8698	0.115	0.954	1.68	6.84

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
10/5/2011	0.173	0.191	12.7	18.3	3.24	18.66
10/10/2011	0.0201	0.2209	15	22.4	3.38	22.64
10/11/2011	0.0188	0.1852	15.9	21.4	3.81	21.60
10/12/2011	0.0336	0.1234	16	28.5	4.82	28.66
10/17/2011	0.147	<0.100	14.2	24.9	3.91	25.15
10/18/2011	0.187	0.103	14.7	23.4	4.05	23.69
10/19/2011	0.127	<0.100	13.2	18.7	5.71	18.93
10/24/2011	0.0604	0.1006	14.4	22.1	3.31	22.26
10/25/2011	0.0253	<0.100	14.2	20.1	4.18	20.23
10/26/2011	0.0317	<0.100	14	23.3	3.94	23.43
10/31/2011	0.116	0.826	9.97	15.3	2.41	16.24
11/1/2011	0.155	0.756	11.1	12.1	3.08	13.01
11/2/2011	0.16	0.541	11.7	19.8	3.08	20.50
11/7/2011	0.197	0.105	13.4	22.5	3.23	22.80
11/8/2011	0.131	0.1	12.8	24.9	4.41	25.13
11/9/2011	0.137	0.282	13	21.2	3.46	21.62
11/14/2011	0.214	0.28	13.5	20.7	3.11	21.19
11/15/2011	0.293	<0.100	13.3	23.1	3.91	23.49
11/16/2011	0.25	<0.100	13.8	24.1	3.89	24.45
11/21/2011	0.441	0.293	14.3	23.7	5.76	24.43
11/22/2011	0.461	0.198	14.5	16.7	3.88	17.36
11/23/2011	0.252	0.321	7.57	11	2.55	11.57
11/28/2011	0.497	0.335	13.1	23.3	3.05	24.13
11/29/2011	0.469	0.141	12.8	24	4	24.61
11/30/2011	0.381	0.524	10.1	18.9	3.51	19.81
12/5/2011	0.393	0.737	13.7	24	3.7	25.13
12/6/2011	0.424	0.312	13.6	23.1	4.5	23.84
12/7/2011	0.288	0.912	10.6	18.7	3.28	19.90
12/12/2011	0.26	1.61	10.2	17.6	2.45	19.47
12/13/2011	0.253	1.567	9.81	17	3.06	18.82
12/14/2011	0.255	1.435	10.7	21.3	3.25	22.99

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
10/5/2011	0.0222	5.1978	0.124	0.962	1.64	6.18
10/10/2011	0.0291	5.9409	0.232	1	1.82	6.97
10/11/2011	0.0297	6.0703	0.115	0.898	1.98	7.00
10/12/2011	0.0296	5.9204	0.197	0.7	2.15	6.65
10/17/2011	0.0301	6.8699	<0.1	0.938	1.94	7.84
10/18/2011	0.0874	3.8826	2.08	2.93	2.4	6.90
10/19/2011	0.0754	4.7146	0.441	1.32	3.3	6.11
10/24/2011	0.0312	6.0088	0.133	0.767	2.01	6.81
10/25/2011	0.0286	5.8114	0.128	0.766	2.22	6.61
10/26/2011	0.0497	5.3803	0.173	0.904	2.16	6.33
10/31/2011	0.0914	4.7586	0.213	1.14	0.769	5.99
11/1/2011	0.038	4.292	0.101	0.912	0.928	5.24
11/2/2011	0.0345	4.0455	<0.1	1.02	1.25	5.10
11/7/2011	0.0339	4.7461	0.131	0.882	1.47	5.66
11/8/2011	0.0306	5.0194	0.118	0.984	1.72	6.03
11/9/2011	0.0315	5.2585	0.132	1.02	1.85	6.31
11/14/2011	0.0322	5.5978	0.102	0.86	1.54	6.49
11/15/2011	0.0322	3.9578	0.12	0.959	1.7	4.95
11/16/2011	0.0293	4.2707	0.126	1.79	1.88	6.09
11/21/2011	0.0252	4.6648	<0.1	0.837	2.72	5.53
11/22/2011	0.0292	5.5508	0.132	2.46	2.88	8.04
11/23/2011	0.0854	5.1446	0.454	2.01	1.71	7.24
11/28/2011	0.0372	6.5428	0.103	0.954	1.68	7.53
11/29/2011	0.0345	6.0655	0.141	1.3	2	7.40
11/30/2011	0.0424	5.8476	0.134	1.03	1.77	6.92
12/5/2011	0.0308	6.0192	<0.1	0.895	1.82	6.95
12/6/2011	0.0525	5.2675	0.189	1.36	2.09	6.68
12/7/2011	0.0287	3.2613	0.267	3.02	1.81	6.31
12/12/2011	0.0273	4.7427	<0.1	0.766	1.01	5.54
12/13/2011	0.0231	5.3969	<0.1	0.769	1.32	6.19
12/14/2011	0.0276	5.7724	<0.1	0.832	1.45	6.63

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2011

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
12/19/2011	0.235	0.815	14.1	25.1	3.35	26.15
12/20/2011	0.144	0.188	14.9	24.7	4.25	25.03
12/21/2011	0.188	0.162	14.2	25.3	3.86	25.65
12/26/2011	0.248	0.143	15	47.2	3.73	47.59
12/27/2011	0.25	0.102	14.8	26.6	3.59	26.95
12/28/2011	0.154	0.572	11.5	20.2	3.07	20.93

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
12/19/2011	0.0287	5.5413	0.183	1.01	1.56	6.58
12/20/2011	0.0344	5.5156	0.222	1.09	1.89	6.64
12/21/2011	0.0365	5.3335	0.346	1.71	1.76	7.08
12/26/2011	0.0592	5.7708	1.42	2.5	1.62	8.33
12/27/2011	0.0633	5.8967	0.949	1.94	1.92	7.90
12/28/2011	0.0852	6.4448	0.975	1.92	1.83	8.45

Table 14: Bucklin Point Influent and Effluent Nutrients

Field's Point Oil & Grease 2011

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/4/2011	36.11	36.11	15.13	<4.0
2/8/2011	51.89	51.89	7.34	<4.0
3/8/2011	71.00	71.00	10.88	<4.0
4/4/2011	44.98	44.98		<4.0
4/5/2011	45.90	45.90	7.07	
5/3/2011	41.95	41.95	17.86	<4.0
6/7/2011	35.10	35.10	22.58	<4.0
7/12/2011	41.77	41.77	16.55	<4.0
8/2/2011	33.92	33.92	17.77	<4.0
9/13/2011	46.13	46.13	10.85	<4.0
10/4/2011	66.15	66.15	9.08	<4.0
11/8/2011	43.72	43.72	19.74	<4.0
12/6/2011	50.46	50.46	20.11	<4.0

Bucklin Point Oil& Grease 2011

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/4/2011	17.01	17.01	12.32	<4.0
2/8/2011	25.09	25.09	12.12	<4.0
3/8/2011	39.72	39.72	10.36	<4.0
4/5/2011	21.47	21.47	16.83	<4.0
5/3/2011	21.48	21.48	22.7	<4.0
6/7/2011	15.99	15.99	24.22	<4.0
7/12/2011	16.13	16.13	22.71	<4.0
8/2/2011	15.88	15.88	23.7	<4.0
9/13/2011	20.12	20.12	12.21	<4.0
10/4/2011	32.25	29.98	10.36	<4.0
11/8/2011	21.94	21.94	22.03	<4.0
12/6/2011	26.59	26.59	13.15	<4.0

Table 15: Bucklin Point and Field's Point Oil and Grease Data

Field's Point Effluent Dissolved Metals 2011
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*
1/4/2011	0.186	0.020	2.05	0.500	8.96	0.500	<0.5	0.500	25.70	0.500	0.044	0.010	28.9	1.000	7.55	2.000	153.0	5.000
2/8/2011	0.665	0.020	0.628	0.500	9.77	0.500	<0.3	0.300	22.30	0.500	0.116	0.010	35.7	1.000	6.42	2.000	87.9	5.000
3/8/2011	0.473	0.020	0.655	0.500	8.23	0.500	<0.3	0.300	13.70	0.500	0.045	0.020	23.6	1.000	5.84	2.000	109.0	5.000
4/5/2011	0.428	0.020	0.973	0.500	6.89	0.500	<0.3	0.300	22.00	0.500	0.050	0.020	25.9	1.000	4.45	2.000	90.1	5.000
5/3/2011	0.270	0.010	0.675	0.300	7.67	0.300	<0.3	0.300	23.00	0.300	0.060	0.020	21.9	1.000	4.48	3.000	96.8	2.000
6/7/2011	0.117	0.010	0.728	0.300	6.81	0.300	<0.3	0.300	21.80	0.300	0.050	0.020	21.2	1.000	9.00	3.000	86.7	2.000
7/12/2011	0.272	0.010	0.744	0.300	4.34	0.300	<0.5	0.500	63.80	0.300	0.022	0.020	16.7	1.000	<3	3.000	75.5	2.000
8/2/2011	0.425	0.010	<0.5	0.500	5.43	0.300	<0.5	0.500	20.20	0.300	0.030	0.020	23.2	1.000	3.60	3.000	89.2	2.000
9/13/2011	0.070	0.010	0.69	0.300	3.58	0.300	<0.5	0.500	12.70	0.300	0.020	0.020	17.5	1.000	4.77	3.000	83.6	2.000
10/4/2011	0.080	0.010	0.71	0.300	3.25	0.300	<0.3	0.300	10.60	0.300	0.050	0.020	17.3	1.000	<3	3.000	73.6	2.000
11/8/2011	0.120	0.010	0.57	0.300	3.33	0.300	<0.3	0.300	14.80	0.300	0.020	0.020	19.9	1.000	6.65	3.000	98.5	2.000
12/6/2011	0.090	0.010	4.94	0.300	3.70	0.300	<0.5	0.500	13.00	0.300	0.030	0.020	22.6	1.000	2.74	3.000	73.8	2.000

* Method detection limits for Cd, Cr, Cu, Pb, Ni, Al, and Fe changed at the end of April 2011

** For some samples throughout the year, Pb, Cr, and Al were run on different analytical equipment with slightly higher detection limits

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average concentration	0.27	1.21	6.00	0.50	21.97	0.04	22.87	5.55	93.14
yearly median concentration	0.23	0.71	6.12	0.50	21.00	0.04	22.25	5.31	88.55
yearly minimum concentration	0.07	0.57	3.25	0.00	10.60	0.02	16.70	2.74	73.60
yearly maximum concentration	0.67	4.94	9.77	0.00	63.80	0.12	35.70	9.00	153.00

Table 16: Field's Point Effluent Dissolved Metals

Bucklin Point Dissolved Metals 2011
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*
1/4/2011	<0.04	0.040	0.83	0.500	5.58	0.500	<0.5	0.500	7.37	0.500	0.041	0.010	41.70	1.000	15.40	2.000	105.00	5.000
2/8/2011	0.02	0.020	0.59	0.500	3.2	0.500	<0.3	0.300	7.17	0.500	0.034	0.010	35.20	1.000	13.00	2.000	68.70	5.000
3/8/2011	0.03	0.020	0.33	0.500	2.35	0.500	<0.3	0.300	4.12	0.500	<0.02	0.020	25.90	1.000	12.20	2.000	50.60	5.000
4/5/2011	0.04	0.020	2.01	0.500	5.37	0.500	<0.3	0.300	5.88	0.500	0.03	0.020	33.80	1.000	10.10	2.000	63.40	5.000
5/3/2011	0.03	0.020	0.46	0.500	5.47	0.500	0.314	0.300	4.27	0.500	0.04	0.020	33.50	1.000	11.40	2.000	68.30	5.000
6/7/2011	0.03	0.010	0.78	0.300	11.6	0.300	0.305	0.300	5.15	0.300	0.03	0.020	33.20	1.000	8.29	3.000	64.30	2.000
7/12/2011	0.04	0.010	0.61	0.300	6.28	0.300	<0.5	0.500	5.57	0.300	0.02	0.020	33.50	1.000	12.90	3.000	49.60	2.000
8/2/2011	0.02	0.010	2.10	0.300	4.72	0.300	<0.5	0.500	6.00	0.300	0.06	0.020	26.00	1.000	6.39	3.000	125.00	2.000
9/13/2011	0.04	0.010	2.12	0.300	5.52	0.300	<0.5	0.500	6.06	0.300	0.02	0.020	28.60	1.000	11.30	3.000	57.80	2.000
10/4/2011	0.03	0.010	0.50	0.300	6.31	0.300	<0.3	0.300	7.51	0.300	0.04	0.020	29.50	1.000	6.83	3.000	53.20	2.000
11/8/2011	0.03	0.010	2.50	0.300	7.58	0.300	<0.3	0.300	4.12	0.300	0.03	0.020	27.00	1.000	6.64	3.000	62.00	2.000
12/6/2011	0.04	0.010	0.93	0.300	7.5	0.300	<0.5	0.500	5.99	0.300	0.02	0.020	29.30	1.000	9.09	3.000	67.10	2.000

*MDL's for Cd, Cr, Cu, Pb, Ni, Al, and Fe changed in April 2011

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average concentration	0.03	1.15	5.96	0.39	5.77	0.03	31.43	10.30	69.58
yearly median concentration	0.03	0.81	5.55	0.50	5.94	0.03	31.35	10.70	63.85
yearly minimum concentration	0.02	0.33	2.35	<0.3	4.12	0.02	25.90	6.39	49.60
yearly maximum concentration	0.04	2.50	11.60	0.31	7.51	0.06	41.70	15.40	125.00

Table 17: Bucklin Point Effluent Dissolved Metals

Field's Point WWTF Bioassay Results - 2011 *Americamysis bahia*						
Acute	**1st Quarter, 2011**			**2nd Quarter, 2011**		
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, 2011			**4th Quarter, 2011**		
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 - 2011 *Arbacia punctulata*						
Chronic	**1st Quarter, 2011**			**2nd Quarter, 2011**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	100%	Required monitoring: No Limit	Y	100%	Required monitoring: No Limit	Y
	3rd Quarter, 2011			**4th Quarter, 2011**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	100%	Required monitoring: No Limit	Y	100%	Required monitoring: No Limit	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 - 2011 *Americamysis bahia*						
Acute	**1st Quarter, 2011**			**2nd Quarter, 2011**		
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, 2011			**4th Quarter, 2011**		
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

Bucklin Point WWTF Bioassay Results - 2011 *Arbacia punctulata*						
Chronic	**1st Quarter, 2011**			**2nd Quarter, 2011**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	100%	50%	Y	100%	50%	Y
	3rd Quarter, 2011			**4th Quarter, 2011**		
Test	**Result**	**Permit Limit**	**Pass Y/N**	**Result**	**Permit Limit**	**Pass Y/N**
C-NOEC	100%	50%	Y	50%	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 2011

	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**
January (no valid sample results)																											
Monthly Avg:	**20.27**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1256661**		**10.00**		**3.56**		**2.25**		**10.83**		**99.48**		**327.88**		**22.51**		**68.32**		**139.89**		**3.70**		**782.86**		**0.65**		**6.23**
February (no valid sample results)																											
Monthly Avg:	**23.99**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1343296**		**10.68**		**3.80**		**2.41**		**11.57**		**106.33**		**350.48**		**24.06**		**73.04**		**149.54**		**3.96**		**836.83**		**0.70**		**6.66**
March (no valid sample results)																											
Monthly Avg:	**24.60**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1377773**		**10.96**		**3.90**		**2.47**		**11.87**		**109.06**		**359.48**		**24.68**		**74.91**		**153.37**		**4.06**	0.00	**858.31**		**0.72**		**6.83**
April (no valid sample results)																											
Monthly Avg:	**24.84**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1291897**		**10.28**		**3.66**		**2.31**		**11.13**		**102.27**		**337.07**		**23.14**		**70.24**		**143.81**		**3.81**		**804.81**		**0.67**		**6.40**
May (no valid sample results)																											
Monthly Avg:	**23.21**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1206746**		**9.60**		**3.42**		**2.16**		**10.40**		**95.53**		**314.86**		**21.62**		**65.61**		**134.34**		**3.56**		**751.77**		**0.63**		**5.98**
June (no valid sample results)																											
Monthly Avg:	**22.29**	**7.95**		**2.83**		**1.79**		**8.62**		**79.16**		**260.91**		**17.91**		**54.37**		**111.32**		**2.95**		**622.97**		**0.52**		**4.96**	
Monthly Total in lbs.	**1203628**		**9.57**		**3.41**		**2.16**		**10.37**		**95.28**		**314.04**		**21.56**		**65.44**		**133.99**		**3.55**		**749.82**		**0.63**		**5.96**
7/12/2011	37.68	8.34		5.11		1.89		7.71		98.94		296.85		18.94		61.40		171.04		3.09		782.76		0.58		8.58	
7/26/2011	25.93	9.06		3.57		1.76		19.08		71.03		288.17		17.58		66.09		115.39		4.10		809.67		0.58		4.78	
Monthly Avg:	**31.80**	**8.70**		**4.34**		**1.83**		**13.39**		**84.99**		**292.51**		**18.26**		**63.74**		**143.22**		**3.60**		**796.21**		**0.58**		**6.68**	
Monthly Total in lbs.	**1032629**		**8.99**		**4.48**		**1.89**		**13.83**		**87.76**		**302.06**		**18.86**		**65.82**		**147.89**		**3.71**		**822.19**		**0.60**		**6.90**
8/2/2011	24.21	8.15		3.01		1.83		16.87		73.26		243.65		19.86		65.29		77.52		4.75		696.21		0.54		10.29	
8/16/2011	27.35	8.68		3.30		1.99		8.32		85.20		282.06		18.28		66.96		155.53		2.31		728.20		0.70		2.69	
Monthly Avg:	**25.78**	**8.42**		**3.16**		**1.91**		**12.60**		**79.23**		**262.85**		**19.07**		**66.12**		**116.52**		**3.53**		**712.20**		**0.62**		**6.49**	
Monthly Total in lbs.	**1027335**		**8.65**		**3.24**		**1.96**		**12.94**		**81.39**		**270.04**		**19.59**		**67.93**		**119.71**		**3.63**		**731.67**		**0.64**		**6.67**
9/13/2011	24.96	6.56		2.86		1.45		5.46		70.80		270.78		14.50		51.08		107.25		2.67		617.40		0.59		3.60	
9/27/2011	23.31	6.86		2.87		1.93		8.06		81.61		264.25		19.29		49.53		93.47		2.51		578.26		0.42		3.41	
Monthly Avg:	**23.31**	**6.71**		**2.87**		**1.69**		**6.76**		**76.21**		**267.51**		**16.90**		**50.31**		**100.36**		**2.59**		**597.83**		**0.51**		**3.51**	
Monthly Total in lbs.	**1124479**		**7.55**		**3.22**		**1.90**		**7.60**		**85.69**		**300.81**		**19.00**		**56.57**		**112.85**		**2.91**		**672.25**		**0.57**		**3.94**
10/4/2011	16.07	7.91		2.58		1.84		6.39		79.21		251.77		18.40		39.64		120.44		1.71		571.08		0.68		6.17	
10/18/2011	23.63	8.75		3.00		1.97		6.67		80.21		304.55		19.74		42.40		101.79		2.15		613.64		0.50		4.42	
Monthly Avg:	**19.85**	**8.33**		**2.79**		**1.91**		**6.53**		**79.71**		**278.16**		**19.07**		**41.02**		**111.11**		**1.93**		**592.36**		**0.59**		**5.30**	
Monthly Total in lbs.	**1127800**		**9.39**		**3.15**		**2.15**		**7.36**		**89.90**		**313.71**		**21.51**		**46.26**		**125.31**		**2.18**		**668.06**		**0.67**		**5.97**
11/8/2011	35.61	7.12		1.75		1.34		7.94		60.82		199.40		13.45		44.42		79.33		2.33		465.09		0.37		4.24	
11/22/2011	22.04	8.37		2.23		2.01		6.29		79.77		249.02		20.10		58.21		130.58		2.95		568.59		0.62		4.18	
Monthly Avg:	**28.83**	**7.74**		**1.99**		**1.68**		**7.12**		**70.29**		**224.21**		**16.77**		**51.32**		**104.96**		**2.64**		**516.84**		**0.50**		**4.21**	
Monthly Total in lbs.	**1111086**		**8.60**		**2.21**		**1.86**		**7.91**		**78.10**		**249.12**		**18.64**		**57.02**		**116.61**		**2.93**		**574.25**		**0.55**		**4.68**
12/6/2011	31.36	8.52		1.94		1.84		6.09		85.82		265.96		18.44		58.30		106.25		3.71		555.34		0.15		4.02	
12/20/2011	19.01	7.13		1.74		1.64		4.52		83.24		214.49		16.37		49.12		77.25		3.09		489.41		0.52		3.09	
Monthly Avg:	**25.18**	**7.82**		**1.84**		**1.74**		**5.30**		**84.53**		**240.23**		**17.41**		**53.71**		**91.75**		**3.40**		**522.38**		**0.34**		**3.56**	
Monthly Total in lbs.	**1481321**		**11.59**		**2.73**		**2.58**		**7.86**		**125.22**		**355.85**		**25.79**		**79.56**		**135.92**		**5.04**		**773.81**		**0.50**		**5.27**
YEARLY TOTAL LBS	**14584651**		**115.85**		**40.76**		**26.10**		**123.67**		**1156.01**		**3795.40**		**260.96**		**790.73**		**1613.24**		**43.03**		**9026.65**		**7.52**		**71.48**

Table: 20 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
2011	40.8	26.1	123.7	3795.4	1156.0	1613.2	7.5	261.0	790.7	43.0	115.9	9026.6	71.5

Table 21: Field's Point Sludge Summary

Bucklin Point Dry Sludge Analysis for Metals 2011

Date	Sludge Tons	Silver ppm	Silver lbs	Arsenic ppm	Arsenic lbs	Beryllium ppm	Beryllium lbs	Cadmium ppm	Cadmium lbs	Chromium ppm	Chromium lbs	Copper ppm	Copper lbs	Molybdenum ppm	Molybdenum lbs	Nickel ppm	Nickel lbs	Lead ppm	Lead lbs	Selenium ppm	Selenium lbs	Zinc ppm	Zinc lbs	Mercury ppm	Mercury lbs	Cyanide ppm	Cyanide lbs
January (no valid sample results)																											
Monthly Avg:	**7.10**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**369060**		**5.70**		**1.64**		**0.77**		**1.19**		**42.85**		**184.66**		**7.72**		**25.19**		**40.52**		**1.30**		**306.34**		**0.42**		**1.25**
February (no valid sample results)																											
Monthly Avg:	**7.04**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**323960**		**5.00**		**1.44**		**0.68**		**1.05**		**37.61**		**162.09**		**6.77**		**22.11**		**35.57**		**1.14**		**268.90**		**0.37**		**1.10**
March (no valid sample results)																											
Monthly Avg:	**7.29**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**379180**		**5.85**		**1.69**		**0.79**		**1.22**		**44.03**		**189.72**		**7.93**		**25.88**		**41.64**		**1.34**		**314.74**		**0.43**		**1.28**
April (no valid sample results)																											
Monthly Avg:	**7.08**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**325720**		**5.03**		**1.45**		**0.68**		**1.05**		**37.82**		**162.97**		**6.81**		**22.23**		**35.77**		**1.15**		**270.36**		**0.37**		**1.10**
May (no valid sample results)																											
Monthly Avg:	**8.58**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**429120**		**6.62**		**1.91**		**0.90**		**1.39**		**49.82**		**214.71**		**8.97**		**29.29**		**47.12**		**1.51**		**356.19**		**0.49**		**1.45**
June (no valid sample results)																											
Monthly Avg:	**7.71**	**15.43**		**4.45**		**2.09**		**3.23**		**116.11**		**500.35**		**20.91**		**68.25**		**109.80**		**3.52**		**830.05**		**1.13**		**3.38**	
Monthly Total in lbs.	**400760**		**6.18**		**1.78**		**0.84**		**1.29**		**46.53**		**200.52**		**8.38**		**27.35**		**44.01**		**1.41**		**332.65**		**0.45**		**1.36**
7/12/2011	6.87	12.18		5.61		2.05		3.56		112.63		492.99		20.46		87.06		126.28		3.59		809.65		1.10		0.73	
7/26/2011	7.06	12.70		5.99		2.02		3.15		82.45		537.48		20.24		50.77		106.91		3.56		853.49		1.30		2.78	
Monthly Avg:	**6.96**	**12.44**		**5.80**		**2.04**		**3.35**		**97.54**		**515.24**		**20.35**		**68.92**		**116.59**		**3.58**		**831.57**		**1.20**		**1.76**	
Monthly Total in lbs.	**355280**		**4.42**		**2.06**		**0.72**		**1.19**		**34.66**		**183.05**		**7.23**		**24.48**		**41.42**		**1.27**		**295.44**		**0.43**		**0.62**
8/2/2011	7.72	14.45		6.31		2.43		3.32		96.25		565.43		24.32		58.95		115.39		3.35		935.58		1.10		3.94	
8/16/2011	6.91	15.95		6.02		2.10		3.41		141.61		583.37		20.99		80.08		129.18		2.90		949.88		1.50		1.50	
Monthly Avg:	**7.31**	**15.20**		**6.17**		**2.26**		**3.36**		**118.93**		**574.40**		**22.66**		**69.52**		**122.29**		**3.13**		**942.73**		**1.30**		**2.72**	
Monthly Total in lbs.	**383980**		**5.84**		**2.37**		**0.87**		**1.29**		**45.67**		**220.56**		**8.70**		**26.69**		**46.96**		**1.20**		**361.99**		**0.50**		**1.04**
9/13/2011	6.94	19.99		3.80		1.93		3.24		134.34		572.64		19.31		81.64		129.13		2.63		988.84		1.50		2.00	
9/27/2011	6.31	17.27		4.33		1.86		3.06		122.21		514.07		18.59		66.86		114.53		2.73		872.89		1.00		0.10	
Monthly Avg:	**6.63**	**18.63**		**4.07**		**1.90**		**3.15**		**128.27**		**543.35**		**18.95**		**74.25**		**121.83**		**2.68**		**930.87**		**1.25**		**1.05**	
Monthly Total in lbs.	**344680**		**6.42**		**1.40**		**0.65**		**1.09**		**44.21**		**187.28**		**6.53**		**25.59**		**41.99**		**0.92**		**320.85**		**0.43**		**0.36**
10/4/2011	8.23	13.07		4.77		1.85		4.60		100.33		408.91		18.48		53.92		106.63		3.03		742.05		0.96		5.18	
10/18/2011	6.36	20.00		3.99		2.04		3.20		145.36		546.59		20.36		85.76		119.79		2.95		912.75		1.20		4.39	
Monthly Avg:	**7.29**	**16.54**		**4.38**		**1.94**		**3.90**		**122.85**		**477.75**		**19.42**		**69.84**		**113.21**		**2.99**		**827.40**		**1.08**		**4.79**	
Monthly Total in lbs.	**355100**		**5.87**		**1.56**		**0.69**		**1.38**		**43.62**		**169.65**		**6.90**		**24.80**		**40.20**		**1.06**		**293.81**		**0.38**		**1.70**
11/8/2011	6.58	11.36		2.33		2.22		1.87		80.19		315.07		22.22		47.55		66.88		2.67		495.27		0.99		5.35	
11/22/2011	5.08	15.90		2.89		2.15		3.09		125.34		479.64		21.55		68.80		113.42		5.75		845.72		1.10		5.95	
Monthly Avg:	**5.83**	**13.63**		**2.61**		**2.19**		**2.48**		**102.76**		**397.36**		**21.88**		**58.17**		**90.15**		**4.21**		**670.50**		**1.05**		**5.65**	
Monthly Total in lbs.	**321300**		**4.38**		**0.84**		**0.70**		**0.80**		**33.02**		**127.67**		**7.03**		**18.69**		**28.97**		**1.35**		**215.43**		**0.34**		**1.82**
12/6/2011	7.09	16.66		3.53		2.25		3.13		130.87		514.96		22.50		72.08		95.50		4.72		811.70		0.64		5.59	
12/20/2011	7.06	15.65		3.78		2.18		3.14		121.71		473.03		21.84		65.52		94.02		4.39		742.74		1.20		3.07	
Monthly Avg:	**7.08**	**16.15**		**3.66**		**2.22**		**3.14**		**126.29**		**494.00**		**22.17**		**68.80**		**94.76**		**4.56**		**777.22**		**0.92**		**4.33**	
Monthly Total in lbs.	**316980**		**5.12**		**1.16**		**0.70**		**0.99**		**40.03**		**156.59**		**7.03**		**21.81**		**30.04**		**1.44**		**246.36**		**0.29**		**1.37**
YEARLY TOTAL LBS	**4305120**		**66.43**		**19.29**		**9.00**		**13.94**		**499.88**		**2159.48**		**89.99**		**294.11**		**474.20**		**15.10**		**3583.07**		**4.89**		**14.45**

Table 22: 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
2011	19.3	9.0	13.9	2159.5	499.9	474.2	4.9	90.0	294.1	15.1	66.4	3583.1	14.5

Table: 23 Bucklin Point Sludge Summary

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2011	111-Trichloroethane	<1.0	ppb
1/4/2011	1122Tetrachlorethane	<1.0	ppb
1/4/2011	112-Trichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethene	<1.0	ppb
1/4/2011	1,2-Dichlorobenzene	<1.0	ppb
1/4/2011	1,2-Dichloroethane	<1.0	ppb
1/4/2011	1,2-Dichloropropane	<1.0	ppb
1/4/2011	1,3-Dichlorobenzene	<1.0	ppb
1/4/2011	1,4-Dichlorobenzene	<1.0	ppb
1/4/2011	Benzene	<1.0	ppb
1/4/2011	Bromodichloromethane	<1.0	ppb
1/4/2011	Bromomethane	<1.0	ppb
1/4/2011	CarbonTetrachloride	<1.0	ppb
1/4/2011	Chlorobenzene	<1.0	ppb
1/4/2011	Chloroethane	<1.0	ppb
1/4/2011	Chloromethane	<1.0	ppb
1/4/2011	cis13Dichloropropene	<1.0	ppb
1/4/2011	Dibromochloromethane	<1.0	ppb
1/4/2011	Ethylbenzene	<1.0	ppb
1/4/2011	Methylene Chloride	<1.0	ppb
1/4/2011	o-xylene	<1.0	ppb
1/4/2011	T-1,2-Dichloroethene	<1.0	ppb
1/4/2011	T-13-Dichloropropene	<1.0	ppb
1/4/2011	Vinyl Chloride	<1.0	ppb
1/4/2011	p-m xylene	<2.0	ppb
1/4/2011	Bromoform	<5.0	ppb
1/4/2011	Toluene	1.10	ppb
1/4/2011	Trichlorethene	1.89	ppb
1/4/2011	Tetrachlorethene	1.96	ppb
1/4/2011	Chloroform	5.04	ppb
2/8/2011	111-Trichloroethane	<1.0	ppb
2/8/2011	1122Tetrachlorethane	<1.0	ppb
2/8/2011	112-Trichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethene	<1.0	ppb
2/8/2011	1,2-Dichlorobenzene	<1.0	ppb
2/8/2011	1,2-Dichloroethane	<1.0	ppb
2/8/2011	1,2-Dichloropropane	<1.0	ppb
2/8/2011	1,3-Dichlorobenzene	<1.0	ppb
2/8/2011	1,4-Dichlorobenzene	<1.0	ppb
2/8/2011	Benzene	<1.0	ppb
2/8/2011	Bromodichloromethane	<1.0	ppb
2/8/2011	Bromomethane	<1.0	ppb
2/8/2011	CarbonTetrachloride	<1.0	ppb
2/8/2011	Chlorobenzene	<1.0	ppb
2/8/2011	Chloroethane	<1.0	ppb
2/8/2011	Chloromethane	<1.0	ppb
2/8/2011	cis13Dichloropropene	<1.0	ppb
2/8/2011	Dibromochloromethane	<1.0	ppb
2/8/2011	Ethylbenzene	<1.0	ppb
2/8/2011	Methylene Chloride	<1.0	ppb
2/8/2011	o-xylene	<1.0	ppb
2/8/2011	T-1,2-Dichloroethene	<1.0	ppb
2/8/2011	T-13-Dichloropropene	<1.0	ppb
2/8/2011	Trichlorethene	<1.0	ppb
2/8/2011	Vinyl Chloride	<1.0	ppb
2/8/2011	p-m xylene	<2.0	ppb
2/8/2011	Bromoform	<5.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2011	111-Trichloroethane	<1.0	ppb
1/4/2011	1122Tetrachlorethane	<1.0	ppb
1/4/2011	112-Trichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethene	<1.0	ppb
1/4/2011	1,2-Dichlorobenzene	<1.0	ppb
1/4/2011	1,2-Dichloroethane	<1.0	ppb
1/4/2011	1,2-Dichloropropane	<1.0	ppb
1/4/2011	1,3-Dichlorobenzene	<1.0	ppb
1/4/2011	1,4-Dichlorobenzene	<1.0	ppb
1/4/2011	Benzene	<1.0	ppb
1/4/2011	Bromodichloromethane	<1.0	ppb
1/4/2011	CarbonTetrachloride	<1.0	ppb
1/4/2011	Chlorobenzene	<1.0	ppb
1/4/2011	Chloroethane	<1.0	ppb
1/4/2011	cis13Dichloropropene	<1.0	ppb
1/4/2011	Dibromochloromethane	<1.0	ppb
1/4/2011	Ethylbenzene	<1.0	ppb
1/4/2011	Methylene Chloride	<1.0	ppb
1/4/2011	o-xylene	<1.0	ppb
1/4/2011	T-1,2-Dichloroethene	<1.0	ppb
1/4/2011	T-13-Dichloropropene	<1.0	ppb
1/4/2011	Tetrachlorethene	<1.0	ppb
1/4/2011	Toluene	<1.0	ppb
1/4/2011	Trichlorethene	<1.0	ppb
1/4/2011	Vinyl Chloride	<1.0	ppb
1/4/2011	p-m xylene	<2.0	ppb
1/4/2011	Bromoform	<5.0	ppb
1/4/2011	Chloroform	1.35	ppb
1/4/2011	Bromomethane	5.98	ppb
1/4/2011	Chloromethane	6.90	ppb
2/8/2011	111-Trichloroethane	<1.0	ppb
2/8/2011	1122Tetrachlorethane	<1.0	ppb
2/8/2011	112-Trichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethene	<1.0	ppb
2/8/2011	1,2-Dichlorobenzene	<1.0	ppb
2/8/2011	1,2-Dichloroethane	<1.0	ppb
2/8/2011	1,2-Dichloropropane	<1.0	ppb
2/8/2011	1,3-Dichlorobenzene	<1.0	ppb
2/8/2011	1,4-Dichlorobenzene	<1.0	ppb
2/8/2011	Benzene	<1.0	ppb
2/8/2011	Bromodichloromethane	<1.0	ppb
2/8/2011	Bromomethane	<1.0	ppb
2/8/2011	CarbonTetrachloride	<1.0	ppb
2/8/2011	Chlorobenzene	<1.0	ppb
2/8/2011	Chloroethane	<1.0	ppb
2/8/2011	Chloromethane	<1.0	ppb
2/8/2011	cis13Dichloropropene	<1.0	ppb
2/8/2011	Dibromochloromethane	<1.0	ppb
2/8/2011	Ethylbenzene	<1.0	ppb
2/8/2011	Methylene Chloride	<1.0	ppb
2/8/2011	o-xylene	<1.0	ppb
2/8/2011	T-1,2-Dichloroethene	<1.0	ppb
2/8/2011	T-13-Dichloropropene	<1.0	ppb
2/8/2011	Tetrachlorethene	<1.0	ppb
2/8/2011	Toluene	<1.0	ppb
2/8/2011	Trichlorethene	<1.0	ppb
2/8/2011	Vinyl Chloride	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2011	Toluene	1.68	ppb
2/8/2011	Chloroform	3.48	ppb
2/8/2011	Tetrachlorethene	47.21	ppb
2/8/2011	TTO	52.37	ppb
3/8/2011	111-Trichloroethane	<1.0	ppb
3/8/2011	1122Tetrachlorethane	<1.0	ppb
3/8/2011	112-Trichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethene	<1.0	ppb
3/8/2011	1,2-Dichlorobenzene	<1.0	ppb
3/8/2011	1,2-Dichloroethane	<1.0	ppb
3/8/2011	1,2-Dichloropropane	<1.0	ppb
3/8/2011	1,3-Dichlorobenzene	<1.0	ppb
3/8/2011	1,4-Dichlorobenzene	<1.0	ppb
3/8/2011	Benzene	<1.0	ppb
3/8/2011	Bromodichloromethane	<1.0	ppb
3/8/2011	Bromomethane	<1.0	ppb
3/8/2011	CarbonTetrachloride	<1.0	ppb
3/8/2011	Chlorobenzene	<1.0	ppb
3/8/2011	Chloroethane	<1.0	ppb
3/8/2011	Chloromethane	<1.0	ppb
3/8/2011	cis13Dichloropropene	<1.0	ppb
3/8/2011	Dibromochloromethane	<1.0	ppb
3/8/2011	Ethylbenzene	<1.0	ppb
3/8/2011	Methylene Chloride	<1.0	ppb
3/8/2011	o-xylene	<1.0	ppb
3/8/2011	T-1,2-Dichloroethene	<1.0	ppb
3/8/2011	T-13-Dichloropropene	<1.0	ppb
3/8/2011	Toluene	<1.0	ppb
3/8/2011	Vinyl Chloride	<1.0	ppb
3/8/2011	p-m xylene	<2.0	ppb
3/8/2011	Bromoform	<5.0	ppb
3/8/2011	Trichlorethene	1.03	ppb
3/8/2011	Tetrachlorethene	1.92	ppb
3/8/2011	Chloroform	3.41	ppb
4/5/2011	111-Trichloroethane	<1.0	ppb
4/5/2011	1122Tetrachlorethane	<1.0	ppb
4/5/2011	112-Trichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethene	<1.0	ppb
4/5/2011	1,2-Dichlorobenzene	<1.0	ppb
4/5/2011	1,2-Dichloroethane	<1.0	ppb
4/5/2011	1,2-Dichloropropane	<1.0	ppb
4/5/2011	1,3-Dichlorobenzene	<1.0	ppb
4/5/2011	1,4-Dichlorobenzene	<1.0	ppb
4/5/2011	Benzene	<1.0	ppb
4/5/2011	Bromodichloromethane	<1.0	ppb
4/5/2011	Bromomethane	<1.0	ppb
4/5/2011	CarbonTetrachloride	<1.0	ppb
4/5/2011	Chlorobenzene	<1.0	ppb
4/5/2011	Chloroethane	<1.0	ppb
4/5/2011	Chloromethane	<1.0	ppb
4/5/2011	cis13Dichloropropene	<1.0	ppb
4/5/2011	Dibromochloromethane	<1.0	ppb
4/5/2011	Ethylbenzene	<1.0	ppb
4/5/2011	Methylene Chloride	<1.0	ppb
4/5/2011	o-xylene	<1.0	ppb
4/5/2011	T-1,2-Dichloroethene	<1.0	ppb
4/5/2011	T-13-Dichloropropene	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2011	p-m xylene	<2.0	ppb
2/8/2011	Bromoform	<5.0	ppb
2/8/2011	Chloroform	1.63	ppb
3/8/2011	111-Trichloroethane	<1.0	ppb
3/8/2011	1122Tetrachlorethane	<1.0	ppb
3/8/2011	112-Trichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethene	<1.0	ppb
3/8/2011	1,2-Dichlorobenzene	<1.0	ppb
3/8/2011	1,2-Dichloroethane	<1.0	ppb
3/8/2011	1,2-Dichloropropane	<1.0	ppb
3/8/2011	1,3-Dichlorobenzene	<1.0	ppb
3/8/2011	1,4-Dichlorobenzene	<1.0	ppb
3/8/2011	Benzene	<1.0	ppb
3/8/2011	Bromodichloromethane	<1.0	ppb
3/8/2011	Bromomethane	<1.0	ppb
3/8/2011	CarbonTetrachloride	<1.0	ppb
3/8/2011	Chlorobenzene	<1.0	ppb
3/8/2011	Chloroethane	<1.0	ppb
3/8/2011	Chloromethane	<1.0	ppb
3/8/2011	cis13Dichloropropene	<1.0	ppb
3/8/2011	Dibromochloromethane	<1.0	ppb
3/8/2011	Ethylbenzene	<1.0	ppb
3/8/2011	Methylene Chloride	<1.0	ppb
3/8/2011	o-xylene	<1.0	ppb
3/8/2011	T-1,2-Dichloroethene	<1.0	ppb
3/8/2011	T-13-Dichloropropene	<1.0	ppb
3/8/2011	Tetrachlorethene	<1.0	ppb
3/8/2011	Toluene	<1.0	ppb
3/8/2011	Trichlorethene	<1.0	ppb
3/8/2011	Vinyl Chloride	<1.0	ppb
3/8/2011	p-m xylene	<2.0	ppb
3/8/2011	Bromoform	<5.0	ppb
3/8/2011	Chloroform	1.60	ppb
4/5/2011	111-Trichloroethane	<1.0	ppb
4/5/2011	1122Tetrachlorethane	<1.0	ppb
4/5/2011	112-Trichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethene	<1.0	ppb
4/5/2011	1,2-Dichlorobenzene	<1.0	ppb
4/5/2011	1,2-Dichloroethane	<1.0	ppb
4/5/2011	1,2-Dichloropropane	<1.0	ppb
4/5/2011	1,3-Dichlorobenzene	<1.0	ppb
4/5/2011	1,4-Dichlorobenzene	<1.0	ppb
4/5/2011	Benzene	<1.0	ppb
4/5/2011	Bromodichloromethane	<1.0	ppb
4/5/2011	Bromomethane	<1.0	ppb
4/5/2011	CarbonTetrachloride	<1.0	ppb
4/5/2011	Chlorobenzene	<1.0	ppb
4/5/2011	Chloroethane	<1.0	ppb
4/5/2011	Chloromethane	<1.0	ppb
4/5/2011	cis13Dichloropropene	<1.0	ppb
4/5/2011	Dibromochloromethane	<1.0	ppb
4/5/2011	Ethylbenzene	<1.0	ppb
4/5/2011	Methylene Chloride	<1.0	ppb
4/5/2011	o-xylene	<1.0	ppb
4/5/2011	T-1,2-Dichloroethene	<1.0	ppb
4/5/2011	T-13-Dichloropropene	<1.0	ppb
4/5/2011	Tetrachlorethene	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2011	Vinyl Chloride	<1.0	ppb
4/5/2011	p-m xylene	<2.0	ppb
4/5/2011	Bromoform	<5.0	ppb
4/5/2011	Trichlorethene	1.45	ppb
4/5/2011	Tetrachlorethene	1.92	ppb
4/5/2011	Toluene	2.10	ppb
4/5/2011	Chloroform	3.03	ppb
6/7/2011	111-Trichloroethane	<1.0	ppb
6/7/2011	1122Tetrachlorethane	<1.0	ppb
6/7/2011	112-Trichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethene	<1.0	ppb
6/7/2011	1,2-Dichlorobenzene	<1.0	ppb
6/7/2011	1,2-Dichloroethane	<1.0	ppb
6/7/2011	1,2-Dichloropropane	<1.0	ppb
6/7/2011	1,3-Dichlorobenzene	<1.0	ppb
6/7/2011	1,4-Dichlorobenzene	<1.0	ppb
6/7/2011	Benzene	<1.0	ppb
6/7/2011	Bromodichloromethane	<1.0	ppb
6/7/2011	Bromomethane	<1.0	ppb
6/7/2011	CarbonTetrachloride	<1.0	ppb
6/7/2011	Chlorobenzene	<1.0	ppb
6/7/2011	Chloroethane	<1.0	ppb
6/7/2011	Chloromethane	<1.0	ppb
6/7/2011	cis13Dichloropropene	<1.0	ppb
6/7/2011	Dibromochloromethane	<1.0	ppb
6/7/2011	Ethylbenzene	<1.0	ppb
6/7/2011	Methylene Chloride	<1.0	ppb
6/7/2011	o-xylene	<1.0	ppb
6/7/2011	T-1,2-Dichloroethene	<1.0	ppb
6/7/2011	T-13-Dichloropropene	<1.0	ppb
6/7/2011	Vinyl Chloride	<1.0	ppb
6/7/2011	p-m xylene	<2.0	ppb
6/7/2011	Bromoform	<5.0	ppb
6/7/2011	Trichlorethene	1.19	ppb
6/7/2011	Toluene	1.58	ppb
6/7/2011	Tetrachlorethene	1.61	ppb
6/7/2011	Chloroform	6.13	ppb
7/12/2011	111-Trichloroethane	<1.0	ppb
7/12/2011	1122Tetrachlorethane	<1.0	ppb
7/12/2011	112-Trichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethene	<1.0	ppb
7/12/2011	1,2-Dichlorobenzene	<1.0	ppb
7/12/2011	1,2-Dichloroethane	<1.0	ppb
7/12/2011	1,2-Dichloropropane	<1.0	ppb
7/12/2011	1,3-Dichlorobenzene	<1.0	ppb
7/12/2011	Benzene	<1.0	ppb
7/12/2011	Bromodichloromethane	<1.0	ppb
7/12/2011	Bromomethane	<1.0	ppb
7/12/2011	CarbonTetrachloride	<1.0	ppb
7/12/2011	Chlorobenzene	<1.0	ppb
7/12/2011	Chloroethane	<1.0	ppb
7/12/2011	Chloromethane	<1.0	ppb
7/12/2011	cis13Dichloropropene	<1.0	ppb
7/12/2011	Dibromochloromethane	<1.0	ppb
7/12/2011	Ethylbenzene	<1.0	ppb
7/12/2011	Methylene Chloride	<1.0	ppb
7/12/2011	o-xylene	<1.0	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2011	Toluene	<1.0	ppb
4/5/2011	Trichlorethene	<1.0	ppb
4/5/2011	Vinyl Chloride	<1.0	ppb
4/5/2011	p-m xylene	<2.0	ppb
4/5/2011	Bromoform	<5.0	ppb
4/5/2011	Chloroform	1.83	ppb
6/7/2011	111-Trichloroethane	<1.0	ppb
6/7/2011	1122Tetrachlorethane	<1.0	ppb
6/7/2011	112-Trichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethene	<1.0	ppb
6/7/2011	1,2-Dichlorobenzene	<1.0	ppb
6/7/2011	1,2-Dichloroethane	<1.0	ppb
6/7/2011	1,2-Dichloropropane	<1.0	ppb
6/7/2011	1,3-Dichlorobenzene	<1.0	ppb
6/7/2011	1,4-Dichlorobenzene	<1.0	ppb
6/7/2011	Benzene	<1.0	ppb
6/7/2011	Bromodichloromethane	<1.0	ppb
6/7/2011	CarbonTetrachloride	<1.0	ppb
6/7/2011	Chlorobenzene	<1.0	ppb
6/7/2011	Chloroethane	<1.0	ppb
6/7/2011	Chloromethane	<1.0	ppb
6/7/2011	cis13Dichloropropene	<1.0	ppb
6/7/2011	Dibromochloromethane	<1.0	ppb
6/7/2011	Ethylbenzene	<1.0	ppb
6/7/2011	Methylene Chloride	<1.0	ppb
6/7/2011	o-xylene	<1.0	ppb
6/7/2011	T-1,2-Dichloroethene	<1.0	ppb
6/7/2011	T-13-Dichloropropene	<1.0	ppb
6/7/2011	Tetrachlorethene	<1.0	ppb
6/7/2011	Toluene	<1.0	ppb
6/7/2011	Trichlorethene	<1.0	ppb
6/7/2011	Vinyl Chloride	<1.0	ppb
6/7/2011	p-m xylene	<2.0	ppb
6/7/2011	Bromoform	<5.0	ppb
6/7/2011	Bromomethane	1.37	ppb
6/7/2011	Chloroform	2.27	ppb
7/12/2011	111-Trichloroethane	<1.0	ppb
7/12/2011	1122Tetrachlorethane	<1.0	ppb
7/12/2011	112-Trichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethene	<1.0	ppb
7/12/2011	1,2-Dichlorobenzene	<1.0	ppb
7/12/2011	1,2-Dichloroethane	<1.0	ppb
7/12/2011	1,2-Dichloropropane	<1.0	ppb
7/12/2011	1,3-Dichlorobenzene	<1.0	ppb
7/12/2011	1,4-Dichlorobenzene	<1.0	ppb
7/12/2011	Benzene	<1.0	ppb
7/12/2011	Bromodichloromethane	<1.0	ppb
7/12/2011	CarbonTetrachloride	<1.0	ppb
7/12/2011	Chlorobenzene	<1.0	ppb
7/12/2011	Chloroethane	<1.0	ppb
7/12/2011	cis13Dichloropropene	<1.0	ppb
7/12/2011	Dibromochloromethane	<1.0	ppb
7/12/2011	Ethylbenzene	<1.0	ppb
7/12/2011	Methylene Chloride	<1.0	ppb
7/12/2011	o-xylene	<1.0	ppb
7/12/2011	T-1,2-Dichloroethene	<1.0	ppb
7/12/2011	T-13-Dichloropropene	<1.0	ppb

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2011	T-1,2-Dichloroethene	<1.0	ppb
7/12/2011	T-13-Dichloropropene	<1.0	ppb
7/12/2011	Trichlorethene	<1.0	ppb
7/12/2011	Vinyl Chloride	<1.0	ppb
7/12/2011	p-m xylene	<2.0	ppb
7/12/2011	Bromoform	<5.0	ppb
7/12/2011	1,4-Dichlorobenzene	1.04	ppb
7/12/2011	Tetrachlorethene	1.33	ppb
7/12/2011	Toluene	2.02	ppb
7/12/2011	Chloroform	5.44	ppb

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2011	Tetrachlorethene	<1.0	ppb
7/12/2011	Toluene	<1.0	ppb
7/12/2011	Trichlorethene	<1.0	ppb
7/12/2011	Vinyl Chloride	<1.0	ppb
7/12/2011	p-m xylene	<2.0	ppb
7/12/2011	Bromoform	<5.0	ppb
7/12/2011	Chloromethane	1.85	ppb
7/12/2011	Chloroform	2.33	ppb
7/12/2011	Bromomethane	3.19	ppb
7/19/2011	111-Trichloroethane	<1.0	ppb
7/19/2011	1122Tetrachlorethane	<1.0	ppb
7/19/2011	112-Trichloroethane	<1.0	ppb
7/19/2011	1,1-Dichloroethane	<1.0	ppb
7/19/2011	1,1-Dichloroethene	<1.0	ppb
7/19/2011	1,2-Dichlorobenzene	<1.0	ppb
7/19/2011	1,2-Dichloroethane	<1.0	ppb
7/19/2011	1,2-Dichloropropane	<1.0	ppb
7/19/2011	1,3-Dichlorobenzene	<1.0	ppb
7/19/2011	1,4-Dichlorobenzene	<1.0	ppb
7/19/2011	Benzene	<1.0	ppb
7/19/2011	Bromodichloromethane	<1.0	ppb
7/19/2011	CarbonTetrachloride	<1.0	ppb
7/19/2011	Chlorobenzene	<1.0	ppb
7/19/2011	Chloroethane	<1.0	ppb
7/19/2011	Chloroform	<1.0	ppb
7/19/2011	Chloromethane	<1.0	ppb
7/19/2011	cis13Dichloropropene	<1.0	ppb
7/19/2011	Dibromochloromethane	<1.0	ppb
7/19/2011	Ethylbenzene	<1.0	ppb
7/19/2011	Methylene Chloride	<1.0	ppb
7/19/2011	o-xylene	<1.0	ppb
7/19/2011	T-1,2-Dichloroethene	<1.0	ppb
7/19/2011	T-13-Dichloropropene	<1.0	ppb
7/19/2011	Tetrachlorethene	<1.0	ppb
7/19/2011	Toluene	<1.0	ppb
7/19/2011	Trichlorethene	<1.0	ppb
7/19/2011	Vinyl Chloride	<1.0	ppb
7/19/2011	p-m xylene	<2.0	ppb
7/19/2011	Bromoform	<5.0	ppb
7/19/2011	Bromomethane	1.84	ppb

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2011	111-Trichloroethane	<1.0	ppb
1/4/2011	1122Tetrachlorethane	<1.0	ppb
1/4/2011	112-Trichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethene	<1.0	ppb
1/4/2011	1,2-Dichlorobenzene	<1.0	ppb
1/4/2011	1,2-Dichloroethane	<1.0	ppb
1/4/2011	1,2-Dichloropropane	<1.0	ppb
1/4/2011	1,3-Dichlorobenzene	<1.0	ppb
1/4/2011	Benzene	<1.0	ppb
1/4/2011	Bromodichloromethane	<1.0	ppb
1/4/2011	Bromomethane	<1.0	ppb
1/4/2011	CarbonTetrachloride	<1.0	ppb
1/4/2011	Chlorobenzene	<1.0	ppb
1/4/2011	Chloroethane	<1.0	ppb
1/4/2011	Chloromethane	<1.0	ppb
1/4/2011	cis13Dichloropropene	<1.0	ppb
1/4/2011	Dibromochloromethane	<1.0	ppb
1/4/2011	Ethylbenzene	<1.0	ppb
1/4/2011	Methylene Chloride	<1.0	ppb
1/4/2011	o-xylene	<1.0	ppb
1/4/2011	T-1,2-Dichloroethene	<1.0	ppb
1/4/2011	T-13-Dichloropropene	<1.0	ppb
1/4/2011	Trichlorethene	<1.0	ppb
1/4/2011	Vinyl Chloride	<1.0	ppb
1/4/2011	p-m xylene	<2.0	ppb
1/4/2011	Bromoform	<5.0	ppb
1/4/2011	1,4-Dichlorobenzene	1.25	ppb
1/4/2011	Toluene	1.66	ppb
1/4/2011	Chloroform	4.87	ppb
1/4/2011	Tetrachlorethene	5.44	ppb
2/8/2011	111-Trichloroethane	<1.0	ppb
2/8/2011	1122Tetrachlorethane	<1.0	ppb
2/8/2011	112-Trichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethene	<1.0	ppb
2/8/2011	1,2-Dichlorobenzene	<1.0	ppb
2/8/2011	1,2-Dichloroethane	<1.0	ppb
2/8/2011	1,2-Dichloropropane	<1.0	ppb
2/8/2011	1,3-Dichlorobenzene	<1.0	ppb
2/8/2011	Benzene	<1.0	ppb
2/8/2011	Bromodichloromethane	<1.0	ppb
2/8/2011	Bromomethane	<1.0	ppb
2/8/2011	CarbonTetrachloride	<1.0	ppb
2/8/2011	Chlorobenzene	<1.0	ppb
2/8/2011	Chloroethane	<1.0	ppb
2/8/2011	Chloromethane	<1.0	ppb
2/8/2011	cis13Dichloropropene	<1.0	ppb
2/8/2011	Dibromochloromethane	<1.0	ppb
2/8/2011	Ethylbenzene	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2011	111-Trichloroethane	<1.0	ppb
1/4/2011	1122Tetrachlorethane	<1.0	ppb
1/4/2011	112-Trichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethane	<1.0	ppb
1/4/2011	1,1-Dichloroethene	<1.0	ppb
1/4/2011	1,2-Dichlorobenzene	<1.0	ppb
1/4/2011	1,2-Dichloroethane	<1.0	ppb
1/4/2011	1,2-Dichloropropane	<1.0	ppb
1/4/2011	1,3-Dichlorobenzene	<1.0	ppb
1/4/2011	1,4-Dichlorobenzene	<1.0	ppb
1/4/2011	Benzene	<1.0	ppb
1/4/2011	Bromodichloromethane	<1.0	ppb
1/4/2011	Bromomethane	<1.0	ppb
1/4/2011	CarbonTetrachloride	<1.0	ppb
1/4/2011	Chlorobenzene	<1.0	ppb
1/4/2011	Chloroethane	<1.0	ppb
1/4/2011	Chloroform	<1.0	ppb
1/4/2011	Chloromethane	<1.0	ppb
1/4/2011	cis13Dichloropropene	<1.0	ppb
1/4/2011	Dibromochloromethane	<1.0	ppb
1/4/2011	Ethylbenzene	<1.0	ppb
1/4/2011	Methylene Chloride	<1.0	ppb
1/4/2011	o-xylene	<1.0	ppb
1/4/2011	T-1,2-Dichloroethene	<1.0	ppb
1/4/2011	T-13-Dichloropropene	<1.0	ppb
1/4/2011	Tetrachlorethene	<1.0	ppb
1/4/2011	Toluene	<1.0	ppb
1/4/2011	Trichlorethene	<1.0	ppb
1/4/2011	Vinyl Chloride	<1.0	ppb
1/4/2011	p-m xylene	<2.0	ppb
1/4/2011	Bromoform	<5.0	ppb
2/8/2011	111-Trichloroethane	<1.0	ppb
2/8/2011	1122Tetrachlorethane	<1.0	ppb
2/8/2011	112-Trichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethane	<1.0	ppb
2/8/2011	1,1-Dichloroethene	<1.0	ppb
2/8/2011	1,2-Dichlorobenzene	<1.0	ppb
2/8/2011	1,2-Dichloroethane	<1.0	ppb
2/8/2011	1,2-Dichloropropane	<1.0	ppb
2/8/2011	1,3-Dichlorobenzene	<1.0	ppb
2/8/2011	1,4-Dichlorobenzene	<1.0	ppb
2/8/2011	Benzene	<1.0	ppb
2/8/2011	Bromodichloromethane	<1.0	ppb
2/8/2011	Bromomethane	<1.0	ppb
2/8/2011	CarbonTetrachloride	<1.0	ppb
2/8/2011	Chlorobenzene	<1.0	ppb
2/8/2011	Chloroethane	<1.0	ppb
2/8/2011	Chloroform	<1.0	ppb
2/8/2011	Chloromethane	<1.0	ppb
2/8/2011	cis13Dichloropropene	<1.0	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2011	Methylene Chloride	<1.0	ppb
2/8/2011	o-xylene	<1.0	ppb
2/8/2011	T-1,2-Dichloroethene	<1.0	ppb
2/8/2011	T-13-Dichloropropene	<1.0	ppb
2/8/2011	Trichlorethene	<1.0	ppb
2/8/2011	Vinyl Chloride	<1.0	ppb
2/8/2011	p-m xylene	<2.0	ppb
2/8/2011	Bromoform	<5.0	ppb
2/8/2011	1,4-Dichlorobenzene	1.16	ppb
2/8/2011	Tetrachlorethene	1.22	ppb
2/8/2011	Toluene	1.33	ppb
2/8/2011	Chloroform	3.62	ppb
2/8/2011	TTO	7.33	ppb
3/8/2011	111-Trichloroethane	<1.0	ppb
3/8/2011	1122Tetrachlorethane	<1.0	ppb
3/8/2011	112-Trichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethene	<1.0	ppb
3/8/2011	1,2-Dichlorobenzene	<1.0	ppb
3/8/2011	1,2-Dichloroethane	<1.0	ppb
3/8/2011	1,2-Dichloropropane	<1.0	ppb
3/8/2011	1,3-Dichlorobenzene	<1.0	ppb
3/8/2011	1,4-Dichlorobenzene	<1.0	ppb
3/8/2011	Benzene	<1.0	ppb
3/8/2011	Bromodichloromethane	<1.0	ppb
3/8/2011	Bromomethane	<1.0	ppb
3/8/2011	CarbonTetrachloride	<1.0	ppb
3/8/2011	Chlorobenzene	<1.0	ppb
3/8/2011	Chloroethane	<1.0	ppb
3/8/2011	Chloromethane	<1.0	ppb
3/8/2011	cis13Dichloropropene	<1.0	ppb
3/8/2011	Dibromochloromethane	<1.0	ppb
3/8/2011	Ethylbenzene	<1.0	ppb
3/8/2011	Methylene Chloride	<1.0	ppb
3/8/2011	o-xylene	<1.0	ppb
3/8/2011	T-1,2-Dichloroethene	<1.0	ppb
3/8/2011	T-13-Dichloropropene	<1.0	ppb
3/8/2011	Trichlorethene	<1.0	ppb
3/8/2011	Vinyl Chloride	<1.0	ppb
3/8/2011	p-m xylene	<2.0	ppb
3/8/2011	Bromoform	<5.0	ppb
3/8/2011	Tetrachlorethene	1.23	ppb
3/8/2011	Chloroform	2.74	ppb
3/8/2011	Toluene	3.85	ppb
4/5/2011	111-Trichloroethane	<1.0	ppb
4/5/2011	1122Tetrachlorethane	<1.0	ppb
4/5/2011	112-Trichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethene	<1.0	ppb
4/5/2011	1,2-Dichlorobenzene	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2011	Dibromochloromethane	<1.0	ppb
2/8/2011	Ethylbenzene	<1.0	ppb
2/8/2011	Methylene Chloride	<1.0	ppb
2/8/2011	o-xylene	<1.0	ppb
2/8/2011	T-1,2-Dichloroethene	<1.0	ppb
2/8/2011	T-13-Dichloropropene	<1.0	ppb
2/8/2011	Tetrachlorethene	<1.0	ppb
2/8/2011	Toluene	<1.0	ppb
2/8/2011	Trichlorethene	<1.0	ppb
2/8/2011	Vinyl Chloride	<1.0	ppb
2/8/2011	p-m xylene	<2.0	ppb
2/8/2011	Bromoform	<5.0	ppb
3/8/2011	111-Trichloroethane	<1.0	ppb
3/8/2011	1122Tetrachlorethane	<1.0	ppb
3/8/2011	112-Trichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethane	<1.0	ppb
3/8/2011	1,1-Dichloroethene	<1.0	ppb
3/8/2011	1,2-Dichlorobenzene	<1.0	ppb
3/8/2011	1,2-Dichloroethane	<1.0	ppb
3/8/2011	1,2-Dichloropropane	<1.0	ppb
3/8/2011	1,3-Dichlorobenzene	<1.0	ppb
3/8/2011	1,4-Dichlorobenzene	<1.0	ppb
3/8/2011	Benzene	<1.0	ppb
3/8/2011	Bromodichloromethane	<1.0	ppb
3/8/2011	Bromomethane	<1.0	ppb
3/8/2011	CarbonTetrachloride	<1.0	ppb
3/8/2011	Chlorobenzene	<1.0	ppb
3/8/2011	Chloroethane	<1.0	ppb
3/8/2011	Chloroform	<1.0	ppb
3/8/2011	Chloromethane	<1.0	ppb
3/8/2011	cis13Dichloropropene	<1.0	ppb
3/8/2011	Dibromochloromethane	<1.0	ppb
3/8/2011	Ethylbenzene	<1.0	ppb
3/8/2011	Methylene Chloride	<1.0	ppb
3/8/2011	o-xylene	<1.0	ppb
3/8/2011	T-1,2-Dichloroethene	<1.0	ppb
3/8/2011	T-13-Dichloropropene	<1.0	ppb
3/8/2011	Tetrachlorethene	<1.0	ppb
3/8/2011	Toluene	<1.0	ppb
3/8/2011	Trichlorethene	<1.0	ppb
3/8/2011	Vinyl Chloride	<1.0	ppb
3/8/2011	p-m xylene	<2.0	ppb
3/8/2011	Bromoform	<5.0	ppb
4/5/2011	111-Trichloroethane	<1.0	ppb
4/5/2011	1122Tetrachlorethane	<1.0	ppb
4/5/2011	112-Trichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethane	<1.0	ppb
4/5/2011	1,1-Dichloroethene	<1.0	ppb
4/5/2011	1,2-Dichlorobenzene	<1.0	ppb
4/5/2011	1,2-Dichloroethane	<1.0	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2011	1,2-Dichloroethane	<1.0	ppb
4/5/2011	1,2-Dichloropropane	<1.0	ppb
4/5/2011	1,3-Dichlorobenzene	<1.0	ppb
4/5/2011	Benzene	<1.0	ppb
4/5/2011	Bromodichloromethane	<1.0	ppb
4/5/2011	Bromomethane	<1.0	ppb
4/5/2011	CarbonTetrachloride	<1.0	ppb
4/5/2011	Chlorobenzene	<1.0	ppb
4/5/2011	Chloroethane	<1.0	ppb
4/5/2011	Chloromethane	<1.0	ppb
4/5/2011	cis13Dichloropropene	<1.0	ppb
4/5/2011	Dibromochloromethane	<1.0	ppb
4/5/2011	Ethylbenzene	<1.0	ppb
4/5/2011	Methylene Chloride	<1.0	ppb
4/5/2011	o-xylene	<1.0	ppb
4/5/2011	T-1,2-Dichloroethene	<1.0	ppb
4/5/2011	T-13-Dichloropropene	<1.0	ppb
4/5/2011	Trichlorethene	<1.0	ppb
4/5/2011	Vinyl Chloride	<1.0	ppb
4/5/2011	p-m xylene	<2.0	ppb
4/5/2011	Bromoform	<5.0	ppb
4/5/2011	Toluene	1.14	ppb
4/5/2011	Tetrachlorethene	1.68	ppb
4/5/2011	1,4-Dichlorobenzene	2.08	ppb
4/5/2011	Chloroform	2.53	ppb
6/7/2011	111-Trichloroethane	<1.0	ppb
6/7/2011	1122Tetrachlorethane	<1.0	ppb
6/7/2011	112-Trichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethene	<1.0	ppb
6/7/2011	1,2-Dichlorobenzene	<1.0	ppb
6/7/2011	1,2-Dichloroethane	<1.0	ppb
6/7/2011	1,2-Dichloropropane	<1.0	ppb
6/7/2011	1,3-Dichlorobenzene	<1.0	ppb
6/7/2011	1,4-Dichlorobenzene	<1.0	ppb
6/7/2011	Benzene	<1.0	ppb
6/7/2011	Bromomethane	<1.0	ppb
6/7/2011	CarbonTetrachloride	<1.0	ppb
6/7/2011	Chlorobenzene	<1.0	ppb
6/7/2011	Chloroethane	<1.0	ppb
6/7/2011	Chloromethane	<1.0	ppb
6/7/2011	cis13Dichloropropene	<1.0	ppb
6/7/2011	Dibromochloromethane	<1.0	ppb
6/7/2011	Ethylbenzene	<1.0	ppb
6/7/2011	Methylene Chloride	<1.0	ppb
6/7/2011	o-xylene	<1.0	ppb
6/7/2011	T-1,2-Dichloroethene	<1.0	ppb
6/7/2011	T-13-Dichloropropene	<1.0	ppb
6/7/2011	Trichlorethene	<1.0	ppb
6/7/2011	Vinyl Chloride	<1.0	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2011	1,2-Dichloropropane	<1.0	ppb
4/5/2011	1,3-Dichlorobenzene	<1.0	ppb
4/5/2011	1,4-Dichlorobenzene	<1.0	ppb
4/5/2011	Benzene	<1.0	ppb
4/5/2011	Bromodichloromethane	<1.0	ppb
4/5/2011	Bromomethane	<1.0	ppb
4/5/2011	CarbonTetrachloride	<1.0	ppb
4/5/2011	Chlorobenzene	<1.0	ppb
4/5/2011	Chloroethane	<1.0	ppb
4/5/2011	Chloroform	<1.0	ppb
4/5/2011	Chloromethane	<1.0	ppb
4/5/2011	cis13Dichloropropene	<1.0	ppb
4/5/2011	Dibromochloromethane	<1.0	ppb
4/5/2011	Ethylbenzene	<1.0	ppb
4/5/2011	Methylene Chloride	<1.0	ppb
4/5/2011	o-xylene	<1.0	ppb
4/5/2011	T-1,2-Dichloroethene	<1.0	ppb
4/5/2011	T-13-Dichloropropene	<1.0	ppb
4/5/2011	Tetrachlorethene	<1.0	ppb
4/5/2011	Toluene	<1.0	ppb
4/5/2011	Trichlorethene	<1.0	ppb
4/5/2011	Vinyl Chloride	<1.0	ppb
4/5/2011	p-m xylene	<2.0	ppb
4/5/2011	Bromoform	<5.0	ppb
6/7/2011	111-Trichloroethane	<1.0	ppb
6/7/2011	1122Tetrachlorethane	<1.0	ppb
6/7/2011	112-Trichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethane	<1.0	ppb
6/7/2011	1,1-Dichloroethene	<1.0	ppb
6/7/2011	1,2-Dichlorobenzene	<1.0	ppb
6/7/2011	1,2-Dichloroethane	<1.0	ppb
6/7/2011	1,2-Dichloropropane	<1.0	ppb
6/7/2011	1,3-Dichlorobenzene	<1.0	ppb
6/7/2011	1,4-Dichlorobenzene	<1.0	ppb
6/7/2011	Benzene	<1.0	ppb
6/7/2011	Bromodichloromethane	<1.0	ppb
6/7/2011	Bromomethane	<1.0	ppb
6/7/2011	CarbonTetrachloride	<1.0	ppb
6/7/2011	Chlorobenzene	<1.0	ppb
6/7/2011	Chloroethane	<1.0	ppb
6/7/2011	Chloroform	<1.0	ppb
6/7/2011	Chloromethane	<1.0	ppb
6/7/2011	cis13Dichloropropene	<1.0	ppb
6/7/2011	Dibromochloromethane	<1.0	ppb
6/7/2011	Ethylbenzene	<1.0	ppb
6/7/2011	Methylene Chloride	<1.0	ppb
6/7/2011	o-xylene	<1.0	ppb
6/7/2011	T-1,2-Dichloroethene	<1.0	ppb
6/7/2011	T-13-Dichloropropene	<1.0	ppb
6/7/2011	Tetrachlorethene	<1.0	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
6/7/2011	p-m xylene	<2.0	ppb
6/7/2011	Bromoform	<5.0	ppb
6/7/2011	Tetrachlorethene	1.06	ppb
6/7/2011	Bromodichloromethane	1.08	ppb
6/7/2011	Toluene	2.65	ppb
6/7/2011	Chloroform	4.02	ppb
7/12/2011	111-Trichloroethane	<1.0	ppb
7/12/2011	1122Tetrachlorethane	<1.0	ppb
7/12/2011	112-Trichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethene	<1.0	ppb
7/12/2011	1,2-Dichlorobenzene	<1.0	ppb
7/12/2011	1,2-Dichloroethane	<1.0	ppb
7/12/2011	1,2-Dichloropropane	<1.0	ppb
7/12/2011	1,3-Dichlorobenzene	<1.0	ppb
7/12/2011	1,4-Dichlorobenzene	<1.0	ppb
7/12/2011	Benzene	<1.0	ppb
7/12/2011	Bromomethane	<1.0	ppb
7/12/2011	CarbonTetrachloride	<1.0	ppb
7/12/2011	Chlorobenzene	<1.0	ppb
7/12/2011	Chloroethane	<1.0	ppb
7/12/2011	Chloromethane	<1.0	ppb
7/12/2011	cis13Dichloropropene	<1.0	ppb
7/12/2011	Dibromochloromethane	<1.0	ppb
7/12/2011	Ethylbenzene	<1.0	ppb
7/12/2011	Methylene Chloride	<1.0	ppb
7/12/2011	o-xylene	<1.0	ppb
7/12/2011	T-1,2-Dichloroethene	<1.0	ppb
7/12/2011	T-13-Dichloropropene	<1.0	ppb
7/12/2011	Tetrachlorethene	<1.0	ppb
7/12/2011	Trichlorethene	<1.0	ppb
7/12/2011	Vinyl Chloride	<1.0	ppb
7/12/2011	p-m xylene	<2.0	ppb
7/12/2011	Bromoform	<5.0	ppb
7/12/2011	Bromodichloromethane	1.07	ppb
7/12/2011	Toluene	1.84	ppb
7/12/2011	Chloroform	4.39	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
6/7/2011	Toluene	<1.0	ppb
6/7/2011	Trichlorethene	<1.0	ppb
6/7/2011	Vinyl Chloride	<1.0	ppb
6/7/2011	p-m xylene	<2.0	ppb
6/7/2011	Bromoform	<5.0	ppb
7/12/2011	111-Trichloroethane	<1.0	ppb
7/12/2011	1122Tetrachlorethane	<1.0	ppb
7/12/2011	112-Trichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethane	<1.0	ppb
7/12/2011	1,1-Dichloroethene	<1.0	ppb
7/12/2011	1,2-Dichlorobenzene	<1.0	ppb
7/12/2011	1,2-Dichloroethane	<1.0	ppb
7/12/2011	1,2-Dichloropropane	<1.0	ppb
7/12/2011	1,3-Dichlorobenzene	<1.0	ppb
7/12/2011	1,4-Dichlorobenzene	<1.0	ppb
7/12/2011	Benzene	<1.0	ppb
7/12/2011	Bromodichloromethane	<1.0	ppb
7/12/2011	Bromomethane	<1.0	ppb
7/12/2011	CarbonTetrachloride	<1.0	ppb
7/12/2011	Chlorobenzene	<1.0	ppb
7/12/2011	Chloroethane	<1.0	ppb
7/12/2011	Chloroform	<1.0	ppb
7/12/2011	Chloromethane	<1.0	ppb
7/12/2011	cis13Dichloropropene	<1.0	ppb
7/12/2011	Dibromochloromethane	<1.0	ppb
7/12/2011	Ethylbenzene	<1.0	ppb
7/12/2011	Methylene Chloride	<1.0	ppb
7/12/2011	o-xylene	<1.0	ppb
7/12/2011	T-1,2-Dichloroethene	<1.0	ppb
7/12/2011	T-13-Dichloropropene	<1.0	ppb
7/12/2011	Tetrachlorethene	<1.0	ppb
7/12/2011	Toluene	<1.0	ppb
7/12/2011	Trichlorethene	<1.0	ppb
7/12/2011	Vinyl Chloride	<1.0	ppb
7/12/2011	p-m xylene	<2.0	ppb
7/12/2011	Bromoform	<5.0	ppb

Sanitary Manhole Sampling Data 2011

Date	Location	As (ppb)	BOD (ppm)	Cd (ppb)	Cr (ppb)	Cu (ppb)	CN (ppb)	Pb (ppb)	Hg (ppt)	Mo (ppb)	Ni (ppb)	Selenium	Silver	Tin	TSS	Zinc
1/6/2011	BS03 - Bucklin Point Sanitary Manhole	0.636	144.6	0.101	1.09	16.80	<4.00	1.8	26.4	0.579	2.85	<1.5	0.0764	1.03	116	74.5
1/13/2011	FS43 - Washington Avenue	0.891	534.5	0.316	5.49	93.20	<4.00	103	107	1.62	8.4	<3.00	0.187		852	289
1/20/2011	FS19 - California Avenue	0.827	260.6	0.164	2.41	23.40	<4.00	15.4	58.4	0.82	7.79	1.14	0.273		196	95.9
2/17/2011	FS37 - Whittier	0.96	720	0.234	5.79	47.70	<4.00	57.1	55.9	1.24	6.46	1.24	9.6		895	243
3/23/2011	BS11 - Bucklin Point Sanitary Manhole	0.8		0.597	4.37	174.00	<4.00	48.7	2240	2.1	8.72	0.733	3.2	<0.5	1780	436
3/3/2011	FS21 - South Larchmont	<0.3	30.5	0.154	2.29	3.26	<4.00	0.47	6.26	<0.3	1.8	<0.5	0.05		30	22.5
3/17/2011	FS26 - 167 Vermont Avenue	0.501	128.4	0.146	0.992	17.20	<4.00	16.4	23.6	0.483	1.52	<0.5	0.08		82	61.2
3/31/2011	FS31 - Gillen Avenue at Ambrose	0.472	208.66	0.086	1.22	27.30	<4.00	1.42	26.8	0.691	3.23	<0.5	0.23		212	73.7
4/19/2011	FS03 - New York Avenue	1.98	292	0.223	3.97	22.40	9.17	18.6	58	1.27	3.66	0.528	12.4		82	48.4
5/10/2011	BS12 - Bucklin Point Sanitary Manhole	0.934	422.2	0.238	1.78	35.10	<4.00	13	68.6	15.8	3.01	1.25	0.16	2.45	352	268
5/23/2011	BS24 - Bucklin Point Sanitary Manhole	0.62	189	0.225	2.09	53.40	2.27	11.9	61.2	0.591	2.82	<0.5	0.35	0.746	208	212
5/17/2011	FS04 - Academy Avenue	<0.3	70.3	0.068	<0.3	5.34	3.14	1.63	11.8	<0.3	1.25	0.63	0.041		58	44.6
5/31/2011	FS38 - Webb Street	<0.3	2.5	0.036	<0.3	0.72	<4.00	<0.3	4.87	<0.3	1	<0.5	<0.02		2	31.6
6/23/2011	BS23 - Bucklin Point Sanitary Manhole	0.71	197.8	0.066	0.528	22.80	<4.00	10.5	92.1	0.739	2.1	<0.5	0.083	2.3	125	76.1
6/14/2011	FS24 - 180 Indiana Avenue	0.842	533	0.241	2.13	37.60	<4.00	42.4	47.9	1.28	4.24	0.671	0.43		569	264
7/14/2011	BS26 - Bucklin Point Sanitary Manhole	0.902	282.2	0.105	1.83	23.20	<4.00	5.52	13.3	1.24	2.54	0.723	0.127	1.48	230	91.7
7/28/2011	BS09 - Bucklin Point Sanitary Manhole	0.607	219.7	0.268	2.98	48.40	<4.00	22.7	31	0.914	3.19	0.648	0.21	2.6	172	265
7/21/2011	FS17 - Ohio Avenue	0.448	179.5	0.141	1.64	30.30	<4.00	11.4	24.9	0.869	2.38	0.712	3.19		218	99.6
8/11/2011	BS03 - Bucklin Point Sanitary Manhole	0.46	144.44	0.09	1.39	20.20	<4.00	9.5	19.1	0.46	2.67	<0.5	0.1	2.86	122	95.7
8/25/2011	BS09 - Bucklin Point Sanitary Manhole	0.89	318	0.26	1.65	52.00	<4.00	12.2	110	1.45	3.1	0.81	0.45	3.09	206	192
8/4/2011	FS16 - Chapin Street	0.56	230.1	0.16	1.54	33.30	<8.00	23.6	28.8	0.96	2.92	0.65	0.51		68	163
8/18/2011	FS03 - New York Avenue	0.75	305.2	0.17	0.67	19.00	<4.00	9.4	34	0.65	2.25	0.96	0.06		186	58.7
9/1/2011	FS05 - Farm Street	0.85	376.45	0.18	0.53	14.40	<4.00	6.03	74.9	3.33	2.06	0.74	0.39		122	57.3
9/8/2011	BS04 - Bucklin Point Sanitary Manhole	0.412	46.6	0.04	<0.3	5.14	<4.00	0.47	10.7	<0.3	1.97	<0.5	0.2	0.513	50	20.3
9/22/2011	BS17 - Bucklin Point Sanitary Manhole	0.61	246	0.46	24.3	22.80	<4.00	6.11	46.4	1.16	11.5	0.51	0.48	<5.00	326	185
9/15/2011	FS19 - California Avenue	1.28	793	0.46	5.6	60.50	<4.00	17.5	121	2.29	9.43	1.01	0.85		692	606
9/29/2011	FS41 - Bellevue Avenue	0.98	269.5	0.23	6.53	28.70	<4.00	21.4	42.4	1.26	6.1	<0.5	0.54		172	138
10/6/2011	BS21 - Bucklin Point Sanitary Manhole	0.82	488	0.3	18.1	174.00	<4.00	13.9	84.6	1.2	5.82	0.6	0.44	<5.00	966	205
10/13/2011	BS01 - Bucklin Point Sanitary Manhole	0.61		0.04	1.23	14.40	<4.00	2.38	37.7	0.47	1.96	<0.5	0.02	<5.00	1308	37.2
10/20/2011	BS05 - Bucklin Point Sanitary Manhole	0.81	167.6	0.11	1.25	86.60	<4.00	2.22	36.9	0.48	2.77	0.69	0.17	<5.00	166	104
10/27/2011	FS15 - Wood Street	0.79	424.6	0.18	1.41	28.30	<4.00	39.3	58.6	1.26	2.88	0.95	0.11		405	348
11/3/2011	BS07 - Bucklin Point Sanitary Manhole	0.31	35.8	0.11	0.47	1.43	<4.00	1.16	2.7	<0.3	1.96	0.57	0.02	<5.00	30	14.1
11/10/2011	BS04 - Bucklin Point Sanitary Manhole	0.56	308.8	0.14	0.97	17.20	<4.00	1.2	20.8	0.63	2.83	0.57	0.12	<5.00	302	124
11/17/2011	BS07 - Bucklin Point Sanitary Manhole	0.69	191.6	0.19	0.72	22.70	<4.00	4.45	25.4	0.93	2.61	0.64	0.08	9.52	184	70.5
12/1/2011	BS21 - Bucklin Point Sanitary Manhole	0.67	297.2	0.13	0.87	52.30	<4.00	5.71	22.2	0.76	2.53	<0.5	0.15	<5.00	164	98.6
11/23/2011	FS34 - Oak Street	0.54		0.26	2.85	24.90	<4.00	18.4	51.5	1.48	4.04	0.64	0.17		296	214
12/15/2011	BS13 - Bucklin Point Sanitary Manhole	1.52	225.2	0.15	4.19	68.80	<4.00	3.44	55.6	0.809	4.56	0.807	0.14	<5.00	348	86.4
12/8/2011	FS42 - Ford St	0.7	159.8	0.11	1.86	13.30	<4.00	48.4	47.1	0.51	1.96	<0.5	0.16		202	125
4/26/2011	FS14 - Teakwood Drive	0.31	114	0.1	0.501	14.20	<4.00	1.04	35.9	<0.3	1.14	<0.5	0.11		132	48.8
5/3/2011	BS10 - Bucklin Point Sanitary Manhole	0.74	230.9	0.171	0.873	24.30	<20.00	4.08	34.8	1.23	1.8	0.518	0.146	0.927	90	86.5
6/5/2011	BS02 - Bucklin Point Sanitary Manhole	0.537	300.8	0.115	0.87	40.40	<4.00	8.01	24.5	2.59	2.28	<0.5	1.1	1.15	219	160

Table: 26 Sanitary Manhole Sampling Data

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
A & F Plating Company	Sample Location # 1	11	2/2/2011	C	900			0.015	0.075	0.048	0.075	0.095	0.06	0.117	0.025					
A & F Plating Company	Sample Location # 1	11	8/1/2011	C	480			0.015	0.075	0.175	0.075	0.315	0.06	0.048	0.025					
A. Harrison & Company, Inc.	Sample Location # 1	22	5/9/2011	G	0	1		0.015	0.075	0.064	0.075	0.05	0.06	0.004	0.025			0.848	20.85	
A. Harrison & Company, Inc.	Sample Location # 1	22	9/22/2011	G				0.015	0.075	0.02	0.075	0.05	0.06	0.002	0.04			0.03	6.3	
A.T. Cross Company	Sample Location # 2	59	3/24/2011	G				0.015	0.075	0.06	0.075	0.05	0.06		0.025					
A.T. Cross Company	Sample Location # 3	59	3/24/2011	C	0	1		0.015	0.075	0.06	0.075	0.05	0.06		0.025					
A.T. Cross Company	Sample Location # 3	59	9/12/2011	G				0.015	0.075	0.303	0.075	0.05	0.06		0.025					
AG&G Incorporated	Sample Location # 1	11	7/27/2011	C	1571			0.015	0.736	0.487	0.075	0.413	0.118	0.025	0.025					
AG&G Incorporated	Sample Location # 1	11	2/14/2011	C	1272			0.015	0.732		0.1				0.08					
Accent Plating Company	Sample Location # 1	11	11/2/2011	C	3275			0.015	0.075	0.03	0.075	0.05	0.064	0.004	0.025					
Accent Plating Company	Sample Location # 1	11	7/11/2011	C	1980			0.015	0.075	0.423	0.075	0.06	0.083	0.006	0.025					
Al-Jac Produce	Sample Location # 1	81	9/21/2011	C	0	569										5538	5474			
Al-Jac Produce	Sample Location # 1	81	3/7/2011	C	0	1										32088	2486			
Al-Jac Produce	Sample Location # 1	81	8/1/2011	C	0	1										8205	7390			
Alpha Plating & Metallizing	Sample Location # 1	71	3/3/2011	G				0.015	0.075	0.205	0.075	0.489	0.06	0.275	0.025					
Angelica Textile Service	Sample Location # 1	25	7/25/2011	C	49817											519.28	26		12.32	
Angelica Textile Service	Sample Location # 1	25	1/24/2011	C	3194											233.4	44		6.57	
Armbrust International, Ltd.	Sample Location # 1	11	8/1/2011	C	8602			0.015	0.075	0.166	0.075	0.316	0.114	0.004	0.206					
Armbrust International, Ltd.	Sample Location # 1	11	2/10/2011	C	4638			0.015	0.075	0.084	0.1	0.135	0.08	0.004	0.08					
Aspen Aerogels Rhode Island, LLC	Sample Location # 1	27	11/30/2011	C	10000											382.8	68	0.005		
Aspen Aerogels Rhode Island, LLC	Sample Location # 1	27	4/1/2011	G	5000			0.015	0.075	0.059	0.075	0.05	0.06		0.02	9278	6	0.019	0	
Aspen Aerogels Rhode Island, LLC	Sample Location # 3	27	4/1/2011	C	0	1		0.015	0.075	0.059	0.075	0.05	0.06		0.02	9278	6	0.019	0	
Austin Metal Finishing Inc	Sample Location # 1	11	9/12/2011	G	0	1		0.015	0.075	0.04	0.075	0.427	0.06	0.251	0.025				4	
Austin Metal Finishing Inc	Sample Location # 1	11	5/20/2011	G	0	200		0.015	0.075	0.021	0.075	0.05	0.06	0.028	0.025				4	
Autocrat, LLC	Sample Location # 1	34	7/14/2011	C	1685											9028	1990			
Autocrat, LLC	Sample Location # 1	34	9/28/2011	C	400											4915	2024			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	7/18/2011	C	0	1										71.25	4004			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	9/21/2011	C	0	4563										2631	2522			
B. Deltoro & Sons, Inc.	Sample Location # 1	81	11/14/2011	C	0	4413										5267.5	6676			
Bliss Manufacturing	Sample Location # 1	11	3/28/2011	C	478			0.015	0.075	1.996	0.075	0.05	0.06	0.028	0.025					
Bliss Manufacturing	Sample Location # 1	11	7/11/2011	C	539			0.015	0.075	0.321	0.075	0.05	0.06	0.067	0.072					
Bunge North America (East), LLC	Sample Location # 1	34	8/3/2011	C	0	1										5.6	24			
Bunge North America (East), LLC	Sample Location # 1	34	3/2/2011	G	44000											19	23			
C&C Rhode Island, LLC	Sample Location # 1	72	2/23/2011	C	18992			0.015	0.075	2.233	0.075	8.91	0.006	0.196	0.025					T.RES.CHLORINE = 1.041
C&C Rhode Island, LLC	Sample Location # 1	72	2/2/2011	C	14436			0.015	0.075		0.1	9.922		0.075	0.08					T.RES.CHLORINE = .008
C&C Rhode Island, LLC	Sample Location # 1	72	10/20/2011	C	18176			0.015	0.075		0.075	2.95			0.04					T.RES.CHLORINE = 9.3
Callico Metals, Inc.	Sample Location # 1	12	6/27/2011	C	3097			0.015	0.075	0.02	0.075	0.05	0.06		0.025				4	
Callico Metals, Inc.	Sample Location # 1	12	9/20/2011	C	1346			0.015	0.075	0.02	0.075	0.05	0.06		0.04					
Charisma Manufacturing	Sample Location # 1	11	2/9/2011	G	0			0.015	0.075	0.08	0.1	0.165	0.098	0.004	0.08					
Charisma Manufacturing	Sample Location # 1	11	9/8/2011	C	0			0.015	0.075	0.083	0.075	0.267	0.094	0.004	0.025					
Chemart Company	Sample Location # 1	11	7/20/2011	C	12600			0.015	0.075	0.256	0.075	0.118	0.078	0.004	0.025					
Chemart Company	Sample Location # 1	11	1/24/2011	C	5000			0.015	0.075	0.274	0.1	0.325	0.06	0.004	0.08					
Chemart Company	Sample Location #3	11	7/20/2011	C		25		0.015	0.075	0.02	0.075	0.05	0.06	0.03	0.204					
Chemart Company	Sample Location #3	11	1/24/2011	G		25		0.015	0.075	0.08	0.1	0.09	0.06	0.004	0.08					
Cintas, Inc.	Sample Location # 1	25	6/20/2011	C	32310			0.018	0.063	0.306	0.063			0.028		342.4				
Cintas, Inc.	Sample Location # 1	25	9/26/2011	C	58620	1						0.045	0.389		0.026		46	0.03	11.8	
Clayton Company & Claverick Realty	Sample Location # 1	11	9/14/2011	C	696			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.04					
Clayton Company & Claverick Realty	Sample Location # 1	11	5/11/2011	C	675			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
Conopco, Inc. (Site #1)	Sample Location # 1	40	5/9/2011	C	90200													0.28		
Conopco, Inc. (Site #1)	Sample Location # 1	40	10/11/2011	C	112400													0.018		
Contract Specialties, Inc.	Sample Location # 1	11	1/10/2011	C	403			0.015	0.075	0.08	0.1	0.09	0.06	0.004	0.08					
Contract Specialties, Inc.	Sample Location # 1	11	7/25/2011	C	3964			0.015	0.075	0.044	0.075	0.05	0.06	0.004	0.025					
Crisloid, Inc.	Sample Location # 1	21	9/23/2011	G				0.015	0.075	0.02	0.075	0.05	0.06		0.04	3.4	16			
Crisloid, Inc.	Sample Location # 1	21	12/2/2011	G	0	0		0.015	0.075	0.02	0.075	0.05	0.06		0.025	3.78	130			
Darlene Group	Sample Location # 1	11	1/10/2011	C	733			0.015	0.173	0.08	0.1	0.165	0.06	0.001	0.08					

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Darlene Group	Sample Location # 1	11	8/3/2011	C	0	1		0.015	0.075	0.023	0.075	0.05	0.06	0.004	0.025					
Denison Pharmaceuticals Inc.	Sample Location # 1	14	9/22/2011	G		500		0.015	0.075	0.02	0.075	0.05	0.1		0.04	189.05	20	23.007	4	ACETONE = 23, N-AMYL ACETATE = .01, ETHYL ACETATE = .01, ISOPROPYL ACETATE = .01
Denison Pharmaceuticals Inc.	Sample Location # 1	14	4/25/2011	G		500		0.015	0.075	0.02	0.075	0.05	0.09		0.025	69.3	16	0.007	4	ACETONE = 1.9, N-AMYL ACETATE = .01, ETHYL ACETATE = .01, ISOPROPYL ACETATE = .01
DiFruscia Industries, Inc.	Sample Location # 1	11	9/22/2011	C	4189	1		0.015	0.279	1.057	0.075	2.048	0.225	0.008	0.04					
DiFruscia Industries, Inc.	Sample Location # 1	11	2/28/2011	C	4488			0.015	0.126	0.38	0.075	0.159	0.108	0.001	0.025					
DiFruscia Industries, Inc.	Sample Location # 1	11	2/3/2011	C	0	1		0.015	0.192	1.3	0.1	0.525	0.341	0.004	0.08					
Dominion Energy Manchester Street, Inc.	Sample Location # 1	27	10/26/2011	C	38480			0.015	0.075	0.02	0.075									
Dominion Energy Manchester Street, Inc.	Sample Location # 1	27	4/27/2011	C	87120			0.015		0.02	0.075	0.05			0.025					
E&M Enterprises, LTD	Sample Location # 1	11	8/9/2011	C	3990			0.015	0.085	0.129	0.075	0.095	0.06	0.119	0.025					
E&M Enterprises, LTD	Sample Location # 1	11	2/15/2011	C	4880			0.015	0.075	0.08	0.1	0.09	0.06	0.008	0.08					
Eagle Laundry Inc.	Sample Location # 1	25	1/20/2011	C	4339											375.8	104		39.31	
Eagle Laundry Inc.	Sample Location # 1	25	10/17/2011	C	6059											708.9	76		96.9	
Eagle Plating Company, Inc.	Sample Location # 1	11	10/17/2011	C	898			0.015	0.075	0.02	0.075	0.05	0.06	0.041	0.04					
Eagle Plating Company, Inc.	Sample Location # 1	11	6/7/2011	C	898			0.015	0.075	0.02	0.075	0.051	0.06	0.013	0.025					
Eastern Color & Chemical Co.	Sample Location # 1	22	2/9/2011	C	1311			0.015	0.075	0.08	0.1	0.09	0.06	0.038	0.08	141.6	38	0.061	22.54	
Eastern Color & Chemical Co.	Sample Location # 1	22	9/15/2011	C	11800			0.015	0.075	0.024	0.075	0.05	0.099	0.02	0.04	1069	58	0.012	11.1	
Electrolizing, Inc.	Sample Location # 1	11	8/15/2011	C	5012			0.015	0.352	0.02	0.075	0.05	0.704	0.004	0.025					
Electrolizing, Inc.	Sample Location # 1	11	2/21/2011	C	3516			0.015	0.219	0.08	0.1	0.09	0.441	0.004	0.08					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	12/6/2011	C	1466			0.073	0.075	0.07	0.075	0.24	1.081	0.04	0.025					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	7/20/2011	C	246			0.735	0.077	0.586	0.075	1.871	2.398	0.176	0.051					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	9/28/2011	C	267			0.021	0.075	0.28	0.075	0.062	0.678	8.838	0.052					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	2/9/2011	C	1320			0.198	0.156	0.602	0.1	0.539	0.96	2.167	0.729					
Evans Plating Corporation (N.P.)	Sample Location # 1	11	3/3/2011	C	1340			0.041	0.075	0.154	0.075	0.227	0.259	0.009	0.025					
Fujifilm Electronic Materials USA, Inc	Sample Location # 2	22	4/19/2011	G	1950			0.015	0.075	0.137	0.075	0.05	0.228		0.025				4	
Fujifilm Electronic Materials USA, Inc	Sample Location # 2	22	8/24/2011	G		2000		0.015	0.075	0.188	0.075	0.05	0.267	0.315	0.025		34			
G. Tanury Plating Company	Sample Location # 1	11	2/7/2011	C	36128			0.015	0.075	0.598	0.1	0.364	0.099	0.036	0.08					TOTAL METAL-EPA = 1.136
G. Tanury Plating Company	Sample Location # 1	11	7/25/2011	C	54754			0.015	0.075	0.899	0.075	6.296	0.248	0.317	0.025					
G. Tanury Plating Company	Sample Location # 1	11	9/22/2011	C	44880			0.015	0.075	1.539	0.075	0.415	0.762	0.019	0.043					
General Cable Industries, LLC	Sample Location # 1	27	7/21/2011	C	1770			0.015	0.075	0.177	0.075	0.05	0.271		0.025	104.5	44		4	
General Cable Industries, LLC	Sample Location # 1	27	1/25/2011	C	3475			0.015	0.075	0.129	0.1	0.09	0.333		0.08	266.2	44		4	
General Plating Company	Sample Location # 1	11	6/22/2011	C	299			0.015	0.075	0.653	0.075	0.151	0.06	0.544	0.042					
General Plating Company	Sample Location # 1	11	12/6/2011	C	598			0.015	0.075	0.356	0.075	0.05	0.06	0.2	0.025					
General Plating Company	Sample Location # 1	11	5/11/2011	C	374			0.015	0.075	2.139	0.075	0.239	0.06	1.637	0.06					
General Plating Company	Sample Location # 1	11	3/7/2011	C	374			0.039	0.075	9.98	0.103	0.901	0.317	7.686	0.164					
General Plating Company	Sample Location # 1	11	4/18/2011	C	374			0.033	0.075	10.13	0.105	1.058	0.33	5.492	0.132					TOTAL METAL-EPA = 11.59
General Plating Company	Sample Location # 1	11	4/4/2011	C	299			0.023	0.075	18.62	0.075	0.996	0.31	14.81	0.2					TOTAL METAL-EPA = 20.001
General Plating Company	Sample Location # 1	11	9/19/2011	C	374			0.015	0.075	2.372	0.075	0.306	0.246	0.019	0.054					
General Plating Company	Sample Location # 1	11	10/20/2011	C	374			0.015	0.075	0.733	0.075	0.058	0.065	0.744	0.04					
George H. Fuller & Son	Sample Location # 1	11	9/19/2011	C	254			0.015	0.075	0.094	0.075	0.068	0.06	0.05	0.05					
George H. Fuller & Son	Sample Location # 1	11	2/14/2011	C	500			0.015	0.075	0.147	0.1	0.313	0.06	0.046	0.08					
HP Services, Inc.	Sample Location # 1	11	9/8/2011	G	0	200		0.015	0.075	0.184	0.513	0.05	0.062	0.005	0.025				4	
HP Services, Inc.	Sample Location # 1	11	4/27/2011	G		200		0.015	0.075	0.056	0.075	0.05	0.06	0.001	0.025				4	
Herff Jones, Inc.	Sample Location # 1	11	2/3/2011	C	4787			0.015	0.075	0.08	0.1	0.09	0.06	0.004	0.08					
Herff Jones, Inc.	Sample Location # 1	11	8/15/2011	C	7050			0.015	0.075	0.106	0.075	0.05	0.06	0.004	0.025					
Hillview Auto Body	Sample Location # 1	97	3/22/2011	G				0.015	0.075		0.075	0.05			0.025			0.005		
Hillview Auto Body	Sample Location # 1	97	7/28/2011	G				0.015	0.075	0.057	0.075	0.05	0.487		0.025			0.025	9.15	
Hord Crystal Corporation	Sample Location # 1	11	8/24/2011	G	0	250		0.015	0.075	0.516	0.075	0.05	0.06	0.007	0.025					
Hord Crystal Corporation	Sample Location # 1	11	4/5/2011	G		300		0.015	0.075	0.11	0.075	0.05	0.06	0.023	0.025					
Ideal Plating & Polishing Co., Inc	Sample Location # 1	11	4/7/2011	C	2693			0.021	0.821	0.825	0.075	0.44	0.267	0.02	0.027					

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Ideal Plating & Polishing Co., Inc	Sample Location # 1	11	9/12/2011	C	5025			0.07	0.517	1.244	0.172	1.003	0.654	1.608	0.038					
Ideal Plating & Polishing Co., Inc	Sample Location # 1	11	10/3/2011	C	2468							0.672	0.302	0.664	0.03					
Impco, Inc.	Sample Location # 1	27	11/9/2011	C				0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.056		
Impco, Inc.	Sample Location # 1	27	6/30/2011	C	120	0		0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.101		
Induplate LLC	Sample Location # 1	11	1/26/2011	C	7360			0.015	0.331	0.08	0.1	0.09	0.497	0.004	0.08					
Induplate LLC	Sample Location # 1	11	7/20/2011	C	11620			0.015	0.145	0.055	0.075	0.05	0.643	0.004	0.025					
International Chromium Plating	Sample Location # 1	11	5/11/2011	C	2543			0.015	0.162	0.106	0.075	0.05	0.06	0.059	0.025					
International Chromium Plating	Sample Location # 1	11	3/23/2011	C	3740			0.018	0.263	0.098				0.578						TOTAL METAL-EPA = .361
International Etching, Inc.	Sample Location # 1	11	9/19/2011	C	6080			0.015	0.075	0.021	0.075	0.05	0.06	0.004	0.04					
International Etching, Inc.	Sample Location # 1	11	1/31/2011	C	5330			0.015	0.075	0.08	0.1	0.09	0.06	0.004	0.08					
International Insignia Corporation	Sample Location # 1	11	2/23/2011	C	6400			0.015	0.075	1.493	0.075	0.905	0.279	0.494	0.025					
International Insignia Corporation	Sample Location # 1	11	5/24/2011	C	5400			0.015	0.075		0.075	1.176	0.207	0.01	0.025					
International Insignia Corporation	Sample Location # 1	11	10/3/2011	C	4800			0.015	0.075	0.919	0.075	0.806	0.236	0.008	0.04					
International Insignia Corporation	Sample Location # 1	11	8/11/2011	C	5700			0.015	0.075	0.904	0.075	2.468	0.459	0.004	0.025					
Interplex Engineered Products, Inc.	Sample Location # 1	11	2/8/2011	C				0.015	0.075	0.08	0.1	1.189	0.06	0.022	0.08					
Interplex Engineered Products, Inc.	Sample Location # 1	11	8/1/2011	C	84522			0.015	0.078	0.02	0.075	0.132	0.06	0.027	0.025					
Ira Green, Inc.	Sample Location # 1	11	8/1/2011	C	1436			0.015	0.075	0.023	0.075	0.05	0.06	0.043	0.025					
Ira Green, Inc.	Sample Location # 1	11	3/7/2011	C	22200			0.015	0.075	0.045	0.075	0.132	0.06	0.077	0.033					
JRB Associates Inc.	Sample Location # 1	11	4/18/2011	C	7150			0.015	0.075		0.075				0.032					
JRB Associates Inc.	Sample Location # 1	11	8/17/2011	C	8400			0.015	0.075		0.075				0.268					
John H. Collins & Sons Company	Sample Location # 1	27	6/27/2011	C	1474			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025			0.503	5.83	
John H. Collins & Sons Company	Sample Location # 1	27	2/28/2011	C	2093			0.015	0.075	0.057	0.075	0.05	2.208		0.252			0.02	94.37	
Kirks Folly	Sample Location # 1	11	4/5/2011	G		0		0.194	0.075	2.412	0.081	0.05	1.15	0.056	0.025		124			
Lee's Manufacturing	Sample Location # 1	43	1/26/2011	C				0.015	0.075	0.08	0.1	0.09	0.06		0.08					
Lee's Manufacturing	Sample Location # 1	43	7/20/2011	C				0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Liquid Blue	Sample Location # 1	23	3/1/2011	G				0.015	0.075	0.113	0.075	0.05	0.06		0.025	111.25	38			
Liquid Blue	Sample Location # 1	23	9/28/2011	G	0	0		0.015	0.075	1.634	0.075	0.05	0.077		0.04	282.45	72			
Liquid Blue	Sample Location # 2	23	3/1/2011	C	0	1		0.015	0.075	1.115	0.075	0.05	0.06		0.025	237.56	2			
Liquid Blue	Sample Location # 2	23	9/28/2011	G	0	0		0.015	0.075	0.254	0.075	0.05	0.146		0.04	419.65	26			
Mahr Federal Inc.	Sample Location # 1	11	9/12/2011	C	868			0.015	0.182	0.025	0.075	0.05	0.06	0.004	0.025				4	
Mahr Federal Inc.	Sample Location # 1	11	5/16/2011	C	0	1		0.015	0.68	0.046	0.075	0.05	0.063	0.004	0.025				4	
Mahr Federal Inc.	Sample Location # 2	11	5/16/2011	C	25			0.015	0.075	0.026	0.075	0.05	0.06	0.004	0.025				8.89	
Mahr Federal Inc.	Sample Location # 2	11	9/12/2011	C		25		0.015	0.075	0.041	0.075	0.05	0.06	0.004	0.025			0.01	4	
Materion Technical Materials, Inc	Sample Location # 1	11	7/15/2011	C	35500			0.015	0.075	0.02	0.075	0.057	0.06	0.004	0.025					
Materion Technical Materials, Inc	Sample Location # 1	11	1/4/2011	C	39800			0.015	0.075	0.02	0.075	0.05	0.06	0.033	0.033					
Metallurgical Solutions, Inc.	Sample Location # 1	11	8/11/2011	G		1150		0.015	0.554	0.144	0.075	0.605	0.06	0.003	0.025					
Metallurgical Solutions, Inc.	Sample Location # 1	11	4/6/2011	G		1150		0.015	0.509	0.104	0.075	0.219	0.06	0.01	0.025					
Microfibres, Inc.	Sample Location # 1	23	8/17/2011	C	143500			0.015	0.942	0.02	0.075	0.05	0.105		0.025	338.45	92		18.3	
Microfibres, Inc.	Sample Location # 1	23	2/22/2011	C	0	1		0.014	1.82	0.029	0.08	0.05	0.137		0.017	825	30		4	
Monarch Metal Finishing, Inc	Sample Location # 1	11	8/17/2011	C	8303			0.015	0.075		0.075			0.595	0.025					
Monarch Metal Finishing, Inc	Sample Location # 1	11	3/7/2011	C	11519			0.015	0.075		0.075				0.04					
Murdock Webbing Co., Inc.	Sample Location # 1	23	9/19/2011	C	5460			0.015	0.075	0.244	0.075	0.05	0.069		0.04	1376	26		66.9	
Murdock Webbing Co., Inc.	Sample Location # 1	23	5/25/2011	C	5086			0.015	0.075	0.182	0.075	0.05	0.075		0.025	4166	136		68.53	
NGC INC.	Sample Location # 1	81	7/28/2011	G	400											2754.2	278		21.5	
NGC INC.	Sample Location # 1	81	3/22/2011	G												1119.8	62		2.62	
Narragansett Jewelry	Sample Location # 1	11	8/3/2011	C	1800			0.015	0.075	0.036	0.075	0.05	0.06	0.004	0.025					
Narragansett Jewelry	Sample Location # 1	11	2/21/2011	C	1050			0.015	0.075	0.124	0.1	0.09	0.06	0.004	0.08					
New England Linen Supply, Inc	Sample Location # 1	25	8/18/2011	C	0	1										300.16	544			
New England Linen Supply, Inc	Sample Location # 1	25	7/6/2011	C	0	1										676.5	296		150.42	
Nulco Manufacturing Corporation	Sample Location # 1	71	8/4/2011	G	0	0		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
Ocean State Peeled Potatoes	Sample Location # 1	81	11/7/2011	C		441										1032	1624			
Ocean State Peeled Potatoes	Sample Location # 1	81	5/2/2011	C	150											983.88	1011			
Ocean State Peeled Potatoes	Sample Location # 1	81	8/9/2011	C	150											592	416			
Osram Sylvania, Inc	Sample Location # 1	27	10/13/2011	G				0.015	0.241	0.138	0.075	0.477	0.06		0.04				16.1	
Osram Sylvania, Inc	Sample Location # 1	27	5/25/2011	G		3938		0.015	0.249	0.075	0.075	0.623	0.06		0.025		82		16.14	

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Pawtucket Power Associates	Sample Location # 1	16	7/18/2011	C	2960			0.015	0.075		0.075		0.06		0.025					
Pawtucket Power Associates	Sample Location # 3	16	7/21/2011	G				0.015	0.075	0.02	0.075				0.025					
Pawtucket Power Associates	Sample Location # 4	16	7/18/2011	C	35510			0.015			0.075				0.025					
Pawtucket Power Associates	Sample Location # 4	16	9/8/2011	C				0.015	0.075	0.036	0.075	0.05	0.06		0.025					
Pilgrim Screw Corporation	Sample Location # 1	11	10/11/2011	G				0.015	0.075	0.02	0.075	0.086	0.218	0.136	0.04				4	
Pilgrim Screw Corporation	Sample Location # 1	11	3/2/2011	G				0.015	0.075	0.02	0.075	0.05	0.183	0.038	0.025				4.81	
Pilgrim Screw Corporation	Sample Location # 1	11	9/8/2011	G	0	1		0.015	0.075	0.02	0.075	0.05	0.141	0.016	0.025				4	
Precision Dermatology	Sample Location # 1	14	9/2/2011	G		806		0.015	0.075	0.068	0.075	0.05	0.088	0.004	0.025	283.4	50	0.618	34.5	N-AMYL ACETATE = .01, ACETONE = .6, ISOPROPYL ACETATE = .01, METHYLENE CHLORIDE = .005
Precision Dermatology	Sample Location # 1	14	9/28/2011	G		559		0.015	0.075	0.094	0.075	0.05	0.091	0.004	0.04	487.36	114	0.686	15	METHYLENE CHLORIDE = .005, ISOPROPYL ACETATE = .01, ACETONE = .63, N-AMYL ACETATE = .01
Precision Dermatology	Sample Location # 1	14	3/9/2011	G		294		0.015	0.075	0.088	0.075	0.05	0.068	0.007	0.025	515.7	86	0.441	13.75	N-AMYL ACETATE = .01, ACETONE = .4, ISOPROPYL ACETATE = .01, METHYLENE CHLORIDE = .005
Prov. Journal Co. - Production Facility	Sample Location # 2	24	11/1/2011	C	50			0.015	0.075	0.02	0.075	0.05	0.106		0.04					
Prov. Journal Co. - Production Facility	Sample Location # 2	24	6/2/2011	C	20			0.015	0.075	0.045	0.075	0.05	0.06		0.025					
Providence Metallizing Company, Inc	Sample Location # 1	11	12/13/2011	C	18851			0.015	0.192	0.031	0.075	0.101	0.06	0.004	0.025					
Providence Metallizing Company, Inc	Sample Location # 1	11	6/13/2011	C	21020			0.018	0.2	0.097				0.013						
Providence Specialty Products	Sample Location # 1	34	9/28/2011	C	0	1										133.95	44		10.1	
Providence Specialty Products	Sample Location # 1	34	6/22/2011	C	0	1										225	84		50	
Providence Specialty Products	Sample Location # 2	34	9/28/2011	C	0	1										26077	1250			
Providence Specialty Products	Sample Location # 2	34	6/20/2011	C	0	1										18940	840		46.97	
R. E. Sturdy Company, Inc.	Sample Location # 1	11	1/24/2011	C	2469			0.015	0.084	3.002	0.1	1.231	0.153	0.01	0.191					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	8/17/2011	C	2917	1		0.015	0.075	1.348	0.075	0.474	0.111	0.008	0.345					
R. E. Sturdy Company, Inc.	Sample Location # 1	11	3/2/2011	C	3291			0.015	0.075	0.941	0.075	0.215	0.06	0.014	0.094					
Richline Group, Inc.	Sample Location # 1	11	9/12/2011	C	960			0.015	0.075	0.081	0.075	1.395	0.06	0.016	0.033					
Richline Group, Inc.	Sample Location # 1	11	3/15/2011	C	661			0.015	0.075		0.075		0.06		0.025					
Ronald Pratt Company, Inc.	Sample Location # 1	11	3/14/2011	G		2000		0.015	0.075	0.112	0.075	0.05	0.06	0.013	0.025					
Ronald Pratt Company, Inc.	Sample Location # 1	11	2/7/2011	C	500			0.015	0.075	3.965	0.1	0.09	0.06	0.439	0.711					
Stackbin Corporation	Sample Location # 1	11	10/17/2011	G	0	1150		0.015	0.075	0.033	0.075	0.05	0.071	0.054	0.04				4	
Stackbin Corporation	Sample Location # 1	11	4/6/2011	G		1150		0.015	0.075	0.067	0.075	0.05	0.091	0.036	0.025			0.039	5.4	
Stackbin Corporation	Sample Location # 2	11	10/17/2011	G	0	600		0.015	0.075	0.02	0.075	0.05	0.06	0.433	0.04				4	
Stackbin Corporation	Sample Location # 2	11	4/6/2011	G		600		0.015	0.075	0.02	0.075	0.05	0.06	0.019	0.025			0.043		
Summit Manufacturing Corporation	Sample Location # 1	11	8/3/2011	C	13988			0.015	0.075	0.188	0.075	0.093	0.06	0.004	0.025					
Summit Manufacturing Corporation	Sample Location # 1	11	2/9/2011	C	5909			0.015	0.075	0.11	0.1	0.119	0.06	0.005	0.08					
Surface Coatings Div. of Westwell Ind	Sample Location # 1	71	2/14/2011	C	3366			0.015	0.075	0.08	0.1	0.09	0.06	0.005	0.08					
Surface Coatings Div. of Westwell Ind	Sample Location # 1	71	9/19/2011	C	3590			0.015	0.075	0.125	0.075	0.102	0.08	0.004	0.04					
Surface Coatings Div. of Westwell Ind	Sample Location # 1	71	8/3/2011	C	3142			0.015	0.075	0.251	0.075	0.495	20.34	0.004	0.025					
Tanury Industries	Sample Location # 1	11	4/25/2011	C	36030			0.015	2.407	0.483	0.075	1.367	0.06	0.705	0.377					
Tanury Industries	Sample Location # 1	11	6/20/2011	C	35560			0.015	0.078	0.43	0.075	1.044	0.06	0.055	0.056					
Tanury Industries PVD, Inc.	Sample Location # 1	11	5/2/2011	G				0.015	0.126	0.393	0.075	0.272	0.101	0.013	0.025					
Tanury Industries PVD, Inc.	Sample Location # 1	11	9/2/2011	C	0	1		0.015	0.124	0.485	0.075	0.284	0.198	0.007	0.027					
Technodic, Inc.	Sample Location # 1	11	4/4/2011	C	5386			0.015	0.721	0.069	0.075	0.05	0.06	0.022	0.025					TOTAL METAL-EPA = .9
Technodic, Inc.	Sample Location # 1	11	10/3/2011	C	7555			0.015	0.614	0.072	0.075	0.05	0.06	0.051	0.04					
Tedor Pharma Inc.	Sample Location # 1	14	10/6/2011	G		740		0.015	0.075		0.122	0.05			0.04				4	ISOPROPYL ACETATE = .05, ACETONE = .1, N-AMYL ACETATE = .05, ETHYL ACETATE = .1

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
Tedor Pharma Inc.	Sample Location # 1	14	2/23/2011	G		1156		0.015	0.075	0.252	0.075	0.05	0.278		0.025	522.5	22	0.1	4	N-AMYL ACETATE = .01, ACETONE = .1, ETHYL ACETATE = .1, ISOPROPYL ACETATE = .01, METHYLENE CHLORIDE = .005
Tedor Pharma Inc.	Sample Location # 1	14	1/18/2011	G		1160		0.015	0.075		0.1	0.09			0.08				4	ISOPROPYL ACETATE = .01, METHYLENE CHLORIDE = .005, ETHYL ACETATE = .01, ACETONE = .043, N-AMYL ACETATE = .01
Teknicote, Inc. (Cumberland)	Sample Location # 1	11	8/18/2011	C		500		0.015	0.075	0.117	0.075	0.05	0.258	0.013	0.025					
Teknicote, Inc. (Cumberland)	Sample Location # 1	11	4/27/2011	G		500		0.015	0.075	0.079	0.075	0.05	0.06	0.007	0.025					
Tiffany and Company	Sample Location # 1	15	9/26/2011	C	1119			0.015	0.075	0.022	0.075	0.05	0.06	0.004	0.04					
Tiffany and Company	Sample Location # 1	15	5/12/2011	C	160			0.015	0.075	0.024	0.075	0.05	0.06	0.004	0.025					
Tri-Jay Company	Sample Location # 1	11	7/21/2011	C	9799			0.015		4.472	0.075		0.919							
Tri-Jay Company	Sample Location # 1	11	1/10/2011	C	9450			0.015	0.08		0.1				0.08					
Tri-Jay Company	Sample Location # 1	11	9/21/2011	C	10098			0.015	0.075		0.075		0.27							
Tru-Kay Manufacturing Company	Sample Location # 1	71	1/5/2011	C	656			0.015	0.075	0.08	0.1	0.399	0.06	0.004	0.08					
Tru-Kay Manufacturing Company	Sample Location # 1	71	2/1/2011	C	449			0.015	0.075		0.1		0.06	0.011	0.08					
Truex, Inc.	Sample Location # 1	11	11/8/2011	C	0	1		0.015	0.075	0.342	0.075	0.05	0.525	0.004	0.025				9.9	
Truex, Inc.	Sample Location # 1	11	6/30/2011	C	3067			0.015	0.075	0.478	0.075	0.05	0.298	0.004	0.025				0	
Umicore USA, Incorporated	Sample Location # 1	22	12/1/2011	G		6000		0.015	0.075	0.02	0.02	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 1	22	4/19/2011	G		6000		0.015	0.075	0.02	0.02	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 2	22	11/23/2011	C		1500		0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 2	22	4/19/2011	G		1500		0.015	0.075	0.024	0.075	0.05	0.183		0.135					
Umicore USA, Incorporated	Sample Location # 3	22	4/19/2011	C	25731			0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Umicore USA, Incorporated	Sample Location # 3	22	11/3/2011	C	12015			0.015	0.075	0.02	0.075	0.05	0.06		0.025					
Uncas Manufacturing Co. - Niantic Avenue	Sample Location # 1	11	7/20/2011	C	6134			0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
Uncas Manufacturing Co. - Niantic Avenue	Sample Location # 1	11	1/26/2011	C	3665			0.015	0.075	0.08	0.1	0.09	0.028	0.004	0.08					
Unique Plating Company	Sample Location # 1	11	7/27/2011	C	1646			0.015	0.075	0.201	0.075	0.673	0.06	0.005	0.025					
Unique Plating Company	Sample Location # 1	11	2/28/2011	C	2244			0.015	0.075	0.216	0.075	0.809	0.06	0.096	0.025					
Unique Plating Company	Sample Location # 1	11	2/1/2011	C	1122			0.015	0.075		0.1	2.471	0.068		0.08					
Univar USA, Inc.	Sample Location # 1	19	9/2/2011	C		7000		0.015	0.356	0.248	0.075	0.323	0.784	0.004	0.025			0.019		T.RES.CHLORINE = .068, MERCURY = .006
Univar USA, Inc.	Sample Location # 1	19	11/17/2011	C		7800		0.015	0.139	0.11	0.075	0.127	0.707	0.004	0.025			0.034		T.RES.CHLORINE = .184
Univar USA, Inc.	Sample Location # 1	19	3/22/2011	C				0.015	0.075	0.061	0.075	0.05	0.517	0.09	0.025			0.156		T.RES.CHLORINE = .558
Universal Plating Company, Inc	Sample Location # 1	11	10/6/2011	C	0	1125		0.015	0.075	0.127	0.075	0.05	0.06	0.004	0.04					
Universal Plating Company, Inc	Sample Location # 1	11	6/27/2011	C	1272	0		0.015	0.075	0.358	0.075	0.15	0.06	0.004	0.025					
Vital Diagnostics, Inc.	Sample Location # 1	22	5/11/2011	G	0	25		0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.16		
Vital Diagnostics, Inc.	Sample Location # 1	22	10/26/2011	G	0	25		0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.01		
W.T. Wilson, Inc.	Sample Location # 1	11	11/3/2011	G		250		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
W.T. Wilson, Inc.	Sample Location # 1	11	8/3/2011	C		200		0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					
W.T. Wilson, Inc.	Sample Location # 1	11	4/5/2011	G		300		0.015	0.075	0.02	0.075	0.05	0.06	0.004	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					

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc
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: 27 NBC Significant Industrial User Sample Results

Septage Monitoring Data - 2011

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
1101-0001	1/3/2011	15	15	75	75	255	20	100	75	90	50	80	80	656	60
1101-0002	1/4/2011	15	15	75	75	267	20	100	75	90	50	80	80	695	60
1101-0003	1/5/2011	15	15	75	75	180	20	100	75	90	50	80	80	405	60
1101-0007	1/10/2011	15	15	190	75	3688	20	109	75	226	50	80	80	5487	60
1101-0008	1/11/2011	92	15	1090	75	42642	20	3898	75	1041	50	59	80	46578	60
1101-0009	1/13/2011	82	15	964	75	35285	20	3078	75	906	50	48	80	39586	60
1101-0013	1/20/2011	15	15	150	75	8817	20	525	75	246	50	85	80	9815	60
1101-0014	1/19/2011	17	15	287	75	14213	20	635	75	327	50	80	80	16002	60
1101-0015	1/18/2011	36	15	519	75	41785	20	2753	75	645	50	994	80	30484	60
1101-0019	1/24/2011	25	15	291	75	16915	20	4724	75	455	50	98	80	27551	60
1101-0020	1/25/2011	15	15	75	75	1329	20	181	75	90	50	80	80	1985	60
1101-0021	1/26/2011	38	15	328	75	13868	20	558	75	369	50	80	80	36977	60
1101-0022	1/31/2011	15	15	189	75	7190	20	296	75	320	50	80	80	9793	60
1101-0023	2/1/2011	23	15	241	75	16645	20	1913	75	443	50	80	80	23748	60
1101-0024	2/3/2011	15	15	235	75	1251	20	166	75	118	50	80	80	1930	60
1102-0001	2/8/2011	15	15	125	75	4381	20	376	75	138	50	80	80	7323	60
1102-0002	2/10/2011	15	15	126	75	13382	20	520	75	339	50	80	80	8884	60
1102-0003	2/11/2011	15	15	75	75	5094	20	278	75	229	50	80	80	4732	60
1102-0008	2/15/2011	15	15	89	75	1668	20	156	75	55	50	40	40	2538	60
1102-0009	2/16/2011	20.6	15	299	75	559.8	20	75	75	50	50	40	40	1595	60
1102-0013	2/21/2011	21.4	15	855	75	6682	20	973	75	416	50	40	40	12660	60
1102-0014	2/22/2011	15	15	75	75	2080	20	75	75	59	50	40	40	4055	60
1102-0015	2/23/2011	15	15	142	75	8104	20	1172	75	251	50	40	40	4301	60
1103-0001	2/28/2011	15.3	15	295	75	21700	20	551	75	252	50	40	40	17800	60
1103-0002	3/1/2011	15	15	335	75	5217	20	156	75	223	50	40	40	4297	60
1103-0003	3/2/2011	15	15	142	75	2989	20	108	75	134	50	40	40	2791	60
1103-0010	3/10/2011	41.3	15	293	75	7865	20	896	75	924	50	40	40	17210	60
1103-0011	3/11/2011	15	15	87	75	2884	20	142	75	126	50	40	40	5563	60
1103-0012	3/12/2011	23.7	15	287	75	17790	20	380	75	521	50	40	40	24260	60
1103-0016	3/17/2011	15	15	75	75	4246	20	149	75	95	50	40	40	6627	60
1103-0017	3/18/2011	15	15	75	75	2475	20	75	75	61	50	40	40	2980	60
1103-0018	3/19/2011	15	15	75	75	3043	20	85	75	84	50	40	40	3443	60

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

Table 28: Septage Sampling Data

Septage Monitoring Data - 2011

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
1103-0019	3/21/2011	41.6	15	335	75	25300	20	969	75	503	50	52	40	27070	60
1103-0020	3/22/2011	28.1	15	250	75	16450	20	573	75	333	50	40	40	18000	60
1103-0021	3/23/2011	21.7	15	205	75	15100	20	510	75	299	50	50	40	15900	60
1103-0025	3/28/2011	20.4	15	252	75	12000	20	638	75	413	50	40	40	12830	60
1103-0026	3/29/2011	26.3	15	185	75	15900	20	820	75	306	50	40	40	20800	60
1103-0027	3/30/2011	63.6	15	841	75	25120	20	1641	75	560	50	87	40	44140	60
1104-0001	4/4/2011	25.8	15	905	75	14060	20	646	75	700	50	40	40	21030	60
1104-0002	4/5/2011	16.7	15	522	75	15490	20	525	75	338	50	40	40	10780	60
1104-0003	4/6/2011	22.8	15	217	75	8742	20	707	75	197	50	747	40	12330	60
1104-0007	4/11/2011	15	15	129	75	5014	20	303	75	176	50	40	40	8760	60
1104-0008	4/12/2011	15	15	111	75	6311	20	432	75	171	50	40	40	9722	60
1104-0009	4/13/2011	15	15	75	75	796.2	20	75	75	50	50	40	40	991	60
1104-0016	4/21/2011	23.4	15	308	75	12970	20	793	75	209	50	40	40	14580	60
1104-0017	4/22/2011	15	15	75	75	1563	20	79	75	75	50	40	40	3115	60
1104-0018	4/23/2011	15	15	75	75	3982	20	162	75	119	50	40	40	4765	60
1104-0019	4/28/2011	27.5	15	281	75	11200	20	724	75	323	50	40	40	17100	60
1104-0020	4/29/2011	15	15	137	75	8270	20	368	75	166	50	40	40	11260	60
1104-0021	4/30/2011	23.7	15	281	75	10860	20	584	75	291	50	40	40	15980	60
1105-0001	5/2/2011	21	15	175	75	6082	20	301	75	152	50	40	40	8278	60
1105-0002	5/3/2011	15	15	83	75	4998	20	244	75	119	50	40	40	6029	60
1105-0003	5/4/2011	15	15	150	75	8857	20	432	75	185	50	40	40	14500	60
1105-0007	5/9/2011	15	15	75	75	1407	20	100	75	84	50	40	40	2946	60
1105-0008	5/10/2011	15	15	75	75	2630	20	121	75	71	50	40	40	3504	60
1105-0009	5/11/2011	15	15	90	75	3379	20	184	75	177	50	40	40	7719	60
1105-0013	5/16/2011	15	15	912	75	3138	20	485	75	458	50	40	40	5051	60
1105-0014	5/17/2011	458.3	15	438	75	15660	20	11920	75	353	50	591	40	19010	60
1105-0015	5/18/2011	34.5	15	212	75	13680	20	1115	75	268	50	53	40	14440	60
1105-0019	5/26/2011	57.4	15	652	75	20520	20	1284	75	385	50	81	40	35140	60
1105-0020	5/27/2011	70.2	15	12460	75	22260	20	2071	75	3007	50	42	40	41640	60
1105-0021	5/28/2011	15	15	75	75	4595	20	224	75	50	50	40	40	3600	60
1106-0001	6/1/2011	15	15	75	75	2606	20	109	75	96	50	40	40	2234	60
1106-0002	6/2/2011	15	15	75	75	814.6	20	75	75	50	50	40	40	1970	60

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

Table 28: Septage Sampling Data

Septage Monitoring Data - 2011

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
1106-0003	6/3/2011	51.7	15	351	75	46730	20	1341	75	372	50	40	40	21740	60
1106-0007	6/9/2011	24.1	15	219	75	6079	20	277	75	343	50	40	40	11900	60
1106-0008	6/10/2011	15	15	75	75	3396	20	132	75	166	50	40	40	5449	60
1106-0009	6/11/2011	15	15	117	75	7499	20	229	75	233	50	40	40	7382	60
1106-0019	6/16/2011	15	15	75	75	958.2	20	80	75	50	50	40	40	1676	60
1106-0020	6/17/2011	16.7	15	185	75	12220	20	1838	75	205	50	40	40	11850	60
1106-0021	6/18/2011	15	15	131	75	12000	20	407	75	179	50	40	40	13000	60
1106-0022	6/20/2011	72.1	15	793	75	11420	20	2211	75	642	50	63	40	43030	60
1106-0023	6/21/2011	15	15	75	75	2115	20	153	75	144	50	40	40	4729	60
1106-0024	6/22/2011	15	15	75	75	1240	20	75	75	60	50	40	40	1230	60
1106-0025	6/27/2011	15	15	77	75	2201	20	133	75	67	50	40	40	2782	60
1106-0026	6/28/2011	15	15	278	75	14020	20	505	75	414	50	40	40	17990	60
1106-0027	6/29/2011	15	15	75	75	1963	20	81	75	71	50	40	40	3647	60
1107-0003	7/7/2011	15	15	75	75	2054	20	91	75	69	50	40	40	2994	60
1107-0004	7/8/2011	15	15	75	75	2432	20	104	75	83	50	41	40	3586	60
1107-0005	7/9/2011	15	15	75	75	2664	20	238	75	145	50	40	40	5636	60
1107-0007	7/11/2011	15	15	75	75	2836	20	82	75	127	50	40	40	2227	60
1107-0008	7/12/2011	15	15	75	75	1983	20	75	75	84	50	40	40	1553	60
1107-0009	7/13/2011	21.7	15	255	75	2107	20	325	75	227	50	58	40	12520	60
1107-0016	7/21/2011	15	15	122	75	5947	20	180	75	462	50	40	40	8283	60
1107-0017	7/22/2011	15	15	136	75	4615	20	204	75	203	50	40	40	5766	60
1107-0018	7/23/2011	45	15	363	75	30930	20	829	75	378	50	40	40	31200	60
1107-0021	7/27/2011	15	15	87	75	13680	20	428	75	128	50	50	40	7402	60
1107-0022	7/28/2011	41.9	15	492	75	13900	20	636	75	554	50	1933	40	21280	60
1107-0023	7/29/2011	36.2	15	438	75	14510	20	744	75	417	50	851	40	24290	60
1108-0001	8/1/2011	23.8	15	203	75	10290	20	387	75	198	50	40	40	12740	60
1108-0002	8/2/2011	38.7	15	526	75	9666	20	779	75	367	50	45	40	19740	60
1108-0003	8/3/2011	36.3	15	394	75	39580	20	866	75	347	50	79	40	25610	60
1108-0009	8/10/2011	15	15	78	75	3898	20	229	75	131	50	50	40	6571	60
1108-0010	8/11/2011	17.3	15	131	75	8794	20	276	75	245	50	40	40	13660	60
1108-0011	8/12/2011	15	15	87	75	4547	20	204	75	193	50	40	40	6810	60
1108-0019	8/15/2011	147.6	15	1724	75	9090	20	460	75	318	50	48	40	15030	60

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

Table 28: Septage Sampling Data

Septage Monitoring Data - 2011

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
1108-0020	8/16/2011	23	15	304	75	6002	20	272	75	267	50	45	40	16790	60
1108-0021	8/17/2011	29.6	15	266	75	12470	20	771	75	187	50	42	40	15060	60
1108-0025	8/22/2011	15	15	75	75	1676	20	92	75	106	50	40	40	3654	60
1108-0026	8/23/2011	15	15	75	75	2434	20	80	75	121	50	40	40	3852	60
1108-0027	8/24/2011	15	15	142	75	6773	20	487	75	241	50	40	40	16500	60
1108-0031	8/29/2011	16.7	15	221	75	14270	20	399	75	420	50	40	40	16170	60
1108-0032	8/30/2011	15	15	75	75	1016	20	192	75	50	50	40	40	2347	60
1108-0033	8/31/2011	15	15	256	75	8776	20	247	75	249	50	40	40	8975	60
1109-0001	9/6/2011	15	15	112	75	3264	20	170	75	141	50	40	40	4075	60
1109-0002	9/7/2011	34.4	15	388	75	13790	20	496	75	283	50	73	40	18320	60
1109-0003	9/8/2011	15	15	75	75	1507	20	75	75	87	50	40	40	3511	60
1109-0007	9/12/2011	48.3	15	497	75	50250	20	825	75	480	50	114	40	30710	60
1109-0008	9/13/2011	52.5	15	378	75	31720	20	800	75	463	50	90	40	22890	60
1109-0009	9/14/2011	15	15	75	75	156.3	20	75	75	50	50	40	40	264	60
1109-0013	9/19/2011	23.3	15	273	75	7680	20	531	75	373	50	40	40	13520	60
1109-0014	9/20/2011	15	15	123	75	2575	20	189	75	104	50	40	40	4250	60
1109-0015	9/21/2011	33.4	15	381	75	10380	20	1255	75	357	50	40	40	14530	60
1109-0020	9/27/2011	20.5	15	230	75	13660	20	427	75	317	50	40	40	13630	60
1109-0021	9/28/2011	15	15	147	75	7553	20	314	75	205	50	40	40	9419	60
1109-0023	9/30/2011	15	15	82	75	9261	20	292	75	99	50	40	40	7284	60
1110-0001	10/3/2011	15	15	784	75	4713	20	224	75	484	50	40	40	8155	60
1110-0002	10/4/2011	15	15	102	75	3145	20	198	75	205	50	40	40	5614	60
1110-0003	10/5/2011	15	15	91	75	6233	20	184	75	116	50	40	40	8557	60
1110-0007	10/11/2011	32.7	15	579	75	23400	20	811	75	886	50	40	40	20020	60
1110-0008	10/12/2011	15	15	75	75	972.1	20	105	75	50	50	40	40	1892	60
1110-0009	10/13/2011	18.1	15	274	75	7963	20	484	75	259	50	40	40	13300	60
1110-0013	10/20/2011	25.6	15	232	75	9642	20	718	75	206	50	40	40	23000	60
1110-0014	10/21/2011	29.6	15	276	75	13900	20	878	75	566	50	517	40	26400	60
1110-0015	10/22/2011	15	15	75	75	2040	20	109	75	58	50	40	40	1983	60
1110-0019	10/24/2011	25.1	15	660	75	9130	20	621	75	557	50	102	40	17920	60
1110-0020	10/25/2011	24.9	15	337	75	9859	20	710	75	437	50	67	40	19020	60
1110-0021	10/26/2011	15.1	15	255	75	8297	20	394	75	220	50	40	40	11900	60

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

Table 28: Septage Sampling Data

Septage Monitoring Data - 2011

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
1111-0001	11/3/2011	36.3	15	693	75	21070	20	538	75	381	50	76	40	29550	60
1111-0002	11/4/2011	15.2	15	721	75	6049	20	338	75	482	50	40	40	11220	60
1111-0003	11/5/2011	31.2	15	330	75	8476	20	544	75	261	50	45	40	20490	60
1111-0004	11/7/2011	23.1	15	345	75	7000	20	682	75	526	50	66	40	16880	60
1111-0005	11/8/2011	20.8	15	163	75	14140	20	865	75	194	50	40	40	11100	60
1111-0006	11/9/2011	15	15	96	75	4599	20	200	75	126	50	40	40	7655	60
1111-0009	11/15/2011	70.8	15	954	75	33800	20	1945	75	923	50	802	40	51500	60
1111-0010	11/16/2011	15	15	214	75	5820	20	336	75	222	50	40	40	8199	60
1111-0011	11/17/2011	57	15	410	75	9697	20	1578	75	382	50	40	40	13850	60
1111-0016	11/21/2011	15	15	75	75	2057	20	75	75	65	50	40	40	3649	60
1111-0017	11/22/2011	15	15	145	75	2180	20	290	75	81	50	40	40	1457	60
1111-0018	11/23/2011	15	15	124	75	8424	20	582	75	248	50	40	40	8426	60
1112-0001	11/28/2011	42.1	15	182	75	36810	20	1683	75	257	50	87	40	45650	60
1112-0002	11/29/2011	15	15	75	75	1280	20	75	75	56	50	40	40	2834	60
1112-0003	11/30/2011	31.4	15	255	75	8726	20	731	75	443	50	59	40	18800	60
1112-0006	12/7/2011	23.3	15	319	75	22300	20	661	75	319	50	40	40	29950	60
1112-0007	12/8/2011	15	15	142	75	5246	20	410	75	156	50	40	40	7646	60
1112-0008	12/9/2011	15	15	116	75	3708	20	321	75	187	50	40	40	7075	60
1112-0013	12/14/2011	15	15	75	75	2374	20	106	75	74	50	40	40	3725	60
1112-0014	12/15/2011	15	15	172	75	7639	20	326	75	152	50	40	40	12160	60
1112-0015	12/16/2011	21.5	15	120	75	7754	20	290	75	118	50	40	40	7047	60
1112-0017	12/20/2011	15	15	77	75	6012	20	275	75	173	50	40	40	5462	60
1112-0018	12/21/2011	15	15	75	75	1187	20	75	75	50	50	40	40	1120	60
1112-0019	12/22/2011	30.6	15	378	75	16030	20	936	75	643	50	42	40	35650	60
1112-0021	12/27/2011	15	15	155	75	6986	20	223	75	277	50	40	40	13240	60
1112-0022	12/28/2011	15	15	131	75	5623	20	206	75	391	50	40	40	8806	60
1112-0023	12/29/2011	15	15	75	75	1684	20	112	75	80	50	40	40	3255	60

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

Table 28: 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
2011	1.6	21.1	558.4	35.8	16.8	5.1	745	1384	7.07

Table 29: Septage Summary 1996-2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
BAY RESULTS																	
01/19/11	10:12 AM	Bullocks Reach Buoy	Bay	0.5		26.80	2.22	8.16	159.00	7.45	89.30	8.99	718.0	400	70		
01/19/11	10:12 AM	Bullocks Reach Buoy	Bay	0.5		26.80										15.712	2.853
01/19/11	9:45 AM	Conimicut Point	Bay	0.6		24.39	2.47	7.96	203.00	7.91	96.90	8.86	789.0	704	68		
01/19/11	9:45 AM	Conimicut Point	Bay	0.6		24.39										25.692	3.026
01/19/11	11:00 AM	Edgewood Yacht Club	Bay	0.5		26.06	2.86	8.13	195.00	15.50	159.00	24.80	758.0	691	52		
01/19/11	11:00 AM	Edgewood Yacht Club	Bay	0.5		26.06	2.86	8.13	191.00	14.50	154.00	22.20	750.0	582	50		
01/19/11	11:00 AM	Edgewood Yacht Club	Bay	0.5		26.06										5.356	1.654
01/19/11	11:00 AM	Edgewood Yacht Club	Bay	0.5		26.06										7.777	1.996
01/19/11	11:00 AM	Edgewood Yacht Club	Bay	0.5		26.06											
01/19/11	1:27 PM	India Point Park	Bay	0.5		17.02	2.47	8.02	566.00	8.19	96.40	51.00	1570.0	916	42		
01/19/11	1:27 PM	India Point Park	Bay	0.5		17.02										5.594	<0.3
01/19/11	2:00 PM	Phillipsdale Landing	Bay	0.5		12.24	2.35	7.90	1090.00	23.70	309.00	175.00	1860.0	1690	22		
01/19/11	2:00 PM	Phillipsdale Landing	Bay	0.5		12.2										2.32	1.728
01/19/11	2:00 PM	Phillipsdale Landing	Bay	0.5		12.2										2.381	1.8
01/19/11	1:03 PM	Pomham Rocks	Bay	0.5		24.1	3.13	8.10	242.00	8.74	16.50	27.50	789.0	565	58		
01/19/11	1:03 PM	Pomham Rocks	Bay	0.5		24.1										4.474	1.574
02/16/11	1:10 PM	Edgewood Yacht Club	Bay	0.6		23.1										6.732	1.47
02/16/11	1:10 PM	Edgewood Yacht Club	Bay	0.6		23.1										4.335	1.271
02/16/11	1:10 PM	Edgewood Yacht Club	Bay	0.6		23.1	1.59		326.00	6.76	95.00	<5.00	1170.0	608	192		
02/16/11	1:10 PM	Edgewood Yacht Club	Bay	0.6		23.1	1.59		323.00	6.99	97.60	<5.00	1180.0	583	186		
02/16/11	2:26 PM	India Point Park	Bay	0.7		18.8										6.913	2.441
02/16/11	2:26 PM	India Point Park	Bay	0.7		18.8	2.21		481.00	7.71	106.00	8.05	1500.0	747	126		
02/16/11	1:55 PM	Pomham Rocks	Bay	0.6		24.1										27.295	6.016
02/16/11	1:55 PM	Pomham Rocks	Bay	0.6		24.1	1.47		252.00	4.07	33.80	<5.00	966.0	582	208		
03/16/11	9:15 AM	Bullocks Reach Buoy	Bay	0.8		14.0	5.45		478.00	10.60	202.00	10.90	1790.0	860	2		
03/16/11	9:15 AM	Bullocks Reach Buoy	Bay	0.8		14.0										3.141	0.968

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/16/11	9:00 AM	Conimicut Point	Bay	0.8		16.05	5.26		425.00	7.33	171.00	<5.00	1590.0	740	38		
03/16/11	9:00 AM	Conimicut Point	Bay	0.8		0.78										6.376	1.647
03/16/11	9:55 AM	Edgewood Yacht Club	Bay	0.8		9.2	5.15		484.00	10.90	295.00	22.30	2030.0	996	6		
03/16/11	9:55 AM	Edgewood Yacht Club	Bay	0.8		9.2	5.15		486.00	10.80	301.00	23.40	2070.0	1000	10		
03/16/11	9:55 AM	Edgewood Yacht Club	Bay	0.8		9.2										1.76	1.189
03/16/11	9:55 AM	Edgewood Yacht Club	Bay	0.8		9.2										1.756	1.226
03/16/11	1:00 PM	Phillipsdale Landing	Bay	0.6		17.1	7.80	7.90	655.00	16.10	326.00	35.40	1910.0	1180	6		
03/16/11	1:00 PM	Phillipsdale Landing	Bay	0.6		17.1										1.073	1.129
03/16/11	9:30 AM	Pomham Rocks	Bay	0.8		9.2	5.53		477.00	11.20	184.00	19.00	2060.0	866	12		
03/16/11	9:30 AM	Pomham Rocks	Bay	0.8		9.2										1.265	1.224
03/30/11	9:17 AM	Bullocks Reach Buoy	Bay	0.6		23.51	4.60		210.00	10.70	141.00	13.00	818.0	520	14		
03/30/11	9:24 AM	Bullocks Reach Buoy	Bay	7.6		30.44	3.93		36.40	<1.5	13.60	10.10	267.0	150	20		
03/30/11	9:17 AM	Bullocks Reach Buoy	Bay	0.6		23.51										1.055	1.016
03/30/11	8:38 AM	Conimicut Point	Bay	0.7		24.15	4.36		215.00	6.82	133.00	16.20	858.0	551	10		
03/30/11	9:00 AM	Conimicut Point	Bay	8.7		31.0	3.74		23.80	<1.5	12.80	9.27	274.0	150	14		
03/30/11	8:38 AM	Conimicut Point	Bay	24.2		0.7										0.838	0.685
03/30/11	9:55 AM	Edgewood Yacht Club	Bay	0.5		26.6	4.83		117.00	4.11	202.00	19.00	610.0	535	30		
03/30/11	9:55 AM	Edgewood Yacht Club	Bay	0.5		26.6	4.83		116.00	4.10	202.00	19.70	606.0	484	18		
03/30/11	9:59 AM	Edgewood Yacht Club	Bay	4.6		29.5	4.29		36.30	<1.5	42.60	8.29	315.0	186	16		
03/30/11	9:59 AM	Edgewood Yacht Club	Bay	4.6		29.5	4.29		37.40	<1.5	42.00	8.37	323.0	306	18		
03/30/11	9:55 AM	Edgewood Yacht Club	Bay	0.5		26.6										1.456	1.237
03/30/11	9:55 AM	Edgewood Yacht Club	Bay	0.5		26.6										1.419	1.137
03/30/11	1:30 PM	India Point Park	Bay	0.6		19.6	6.01		652.00	24.00	350.00	28.40	1990.0	719	12		
03/30/11	1:35 PM	India Point Park	Bay	4.6		29.8	4.13		43.40	<1.5	48.40	11.60	395.0	334	22		
03/30/11	1:30 PM	India Point Park	Bay	0.6		19.6										1.031	1.001
03/30/11	8:45 AM	Phillipsdale Landing	Bay	0.1		17.3	22.35	7.05	965.00	31.80	750.00	162.00	2490.0	1910	8		
03/30/11	8:50 AM	Phillipsdale Landing	Bay	0.0		17.3	22.35	7.05	739.00	24.90	533.00	121.00	2090.0	1530	12		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/30/11	8:45 AM	Phillipsdale Landing	Bay													1.268	1.313
03/30/11	12:48 PM	Pomham Rocks	Bay	0.6		25.2	5.80		215.00	6.32	131.00	17.80	866.0	619	20		
03/30/11	12:53 PM	Pomham Rocks	Bay	3.0		29.4	4.61		144.00	6.89	190.00	17.50	676.0	540	16		
03/30/11	12:48 PM	Pomham Rocks	Bay	0.6		25.2										1.1	0.819
04/20/11	9:45 AM	Bullocks Reach Buoy	Bay		Surface				298.00	11.70	106.00	<5.00	1050.0	598	44		
04/20/11	9:50 AM	Bullocks Reach Buoy	Bay		Bottom				8.55	<1.5	<7.00	<5.00	24.1	124	164		
04/20/11	9:45 AM	Bullocks Reach Buoy	Bay		Surface				297.00	11.20	106.00	<5.00	1060.0	587	44		
04/20/11	9:50 AM	Bullocks Reach Buoy	Bay		Bottom				8.23	<1.5	<7.00	<5.00	22.2	121	170		
04/20/11	9:45 AM	Bullocks Reach Buoy	Bay													16.042	3.809
04/20/11	9:45 AM	Bullocks Reach Buoy	Bay													15.653	4.249
04/20/11	9:10 AM	Conimicut Point	Bay		Surface				192.00	7.02	77.00	<5.00	697.0	446	90		
04/20/11	9:20 AM	Conimicut Point	Bay		Bottom				8.67	<1.5	<7.00	<5.00	<20	110	142		
04/20/11	9:10 AM	Conimicut Point	Bay													17.251	4.06
04/20/11	1:25 PM	Edgewood Yacht Club	Bay	0.7		21.72	9.02		194.00	8.94	118.00	5.73	696.0	505	86		
04/20/11	1:30 PM	Edgewood Yacht Club	Bay	3.9		26.43	8.21		35.00	2.20	18.10	<5.00	107.0	226	116		
04/20/11	1:25 PM	Edgewood Yacht Club	Bay	0.7		21.72										13.862	4.566
04/20/11	1:00 PM	India Point Park	Bay	0.6		10.56	9.81		379.00	23.10	118.00	17.10	1240.0	656	34		
04/20/11	1:10 PM	India Point Park	Bay	8.7		27.39	7.43		27.10	<1.5	26.40	<5.00	63.4	186	92		
04/20/11	1:00 PM	India Point Park	Bay	0.6		10.56										8.302	4.21
04/20/11	10:34 AM	Phillipsdale Landing	Bay		Surface				490.00	23.10	199.00	31.20	1750.0	910	94		
04/20/11	10:30 AM	Phillipsdale Landing	Bay		Bottom				218.00	6.13	107.00	17.80	874.0	375	22		
04/20/11	10:34 AM	Phillipsdale Landing	Bay													3.617	3.893
04/20/11	10:25 AM	Pomham Rocks	Bay		Surface				221.00	10.60	176.00	11.80	898.0	556	170		
04/20/11	10:33 AM	Pomham Rocks	Bay		Bottom				8.30	<1.5	<7.00	<5.00	<20	111	256		
04/20/11	10:25 AM	Pomham Rocks	Bay													15.826	4.554
05/04/11	9:40 AM	Bullocks Reach Buoy	Bay	0.5		23.1	14.34	8.11	46.20	2.01	<7.00	<5.00	107.0	299	40		
05/04/11	9:40 AM	Bullocks Reach Buoy	Bay	0.5		23.1										12.09	2.753

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
05/04/11	9:15 AM	Conimicut Point	Bay	0.5		24.0	14.04	8.13	46.30	<1.5	<7.00	<5.00	47.6	219	62		
05/04/11	9:15 AM	Conimicut Point	Bay	0.5		24.0										15.535	2.667
05/04/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		17.8										13.461	2.626
05/04/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		17.8	14.57	7.76	266.00	12.80	751.00	69.20	952.0	1310	50		
05/04/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		17.8	14.57	7.76	264.00	12.50	736.00	75.40	760.0	1290	52		
05/04/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		17.78										13.784	3.086
05/04/11	10:20 AM	India Point Park	Bay	0.5		12.1	16.00	7.51	377.00	11.30	139.00	36.90	1220.0	716	20		
05/04/11	10:20 AM	India Point Park	Bay	0.5		12.1										3.719	2.778
05/04/11	1:05 PM	Phillipsdale Landing	Bay	0.6		1.8	16.81	7.31	636.00	17.60	196.00	77.90	1720.0	1040	12		
05/04/11	10:00 AM	Pomham Rocks	Bay	0.5		18.5	14.50	7.86	252.00	10.80	199.00	26.30	725.0	677	46		
05/04/11	10:00 AM	Pomham Rocks	Bay	0.5		18.5										12.183	3.12
05/18/11	10:10 AM	Conimicut Point	Bay		Surface				168.00	2.69	109.00	26.60	443.0	441	48	6.544	2.602
05/18/11	10:35 AM	Bullocks Reach Buoy	Bay		Surface				170.00	2.50	120.00	29.00	437.0	414	58	5.152	2.15
05/18/11	1:00 PM	Edgewood Yacht Club	Bay		Surface				219.00	5.82	246.00	48.20	630.0	694	42	4.502	2.647
05/18/11	1:00 PM	Edgewood Yacht Club	Bay		Surface				229.00	6.20	244.00	48.30	616.0	619	44	5.69	2.629
05/18/11	1:20 PM	Pomham Rocks	Bay		Surface				200.00	4.71	174.00	41.00	557.0	492	52	4.488	2.03
05/18/11	2:00 PM	India Point Park	Bay		Surface				418.00	11.60	129.00	49.00	1000.0	693	36	2.539	3.991
05/18/11	12:35 PM	Phillipsdale Landing	Bay	0.5		9.9	13.55	7.29	794.00	20.50	142.00	168.00	1510.0	1120	28	2.455	3.726
05/18/11	12:40 PM	Phillipsdale Landing	Bay	1.4		21.8	12.60	7.56	261.00	6.62	149.00	58.20	689.0	542	66		
06/01/11	10:40 AM	Bullocks Reach Buoy	Bay	0.5		23.1	20.04	8.40	6.68	<1.5	<7.00	<5.00	<20	214	64		
06/01/11	10:45 AM	Bullocks Reach Buoy	Bay	7.5		29.1	14.16		10.30	<1.5	66.50	20.50	426.0	223	66		
06/01/11	10:40 AM	Bullocks Reach Buoy	Bay	0.5		23.1										38.678	9.526
06/01/11	2:10 PM	Edgewood Yacht Club	Bay	0.5		19.26	21.04	8.50	138.00	20.10	<7.00	<5.00	<20	375	58		
06/01/11	2:10 PM	Edgewood Yacht Club	Bay	0.5		19.26	21.04	8.50	142.00	22.80	<7.00	<5.00	<20	368	62		
06/01/11	2:20 PM	Edgewood Yacht Club	Bay	4.6		27.84	14.45		77.70	10.80	156.00	28.30	384.0	427	48		
06/01/11	2:20 PM	Edgewood Yacht Club	Bay	4.6		27.84	14.45		79.20	8.80	159.00	29.60	377.0	429	46		
06/01/11	2:10 PM	Edgewood Yacht Club	Bay	0.5		19.26										88.002	12.941

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/01/11	2:10 PM	Edgewood Yacht Club	Bay	0.5		19.26										91.387	9.985
06/01/11	1:25 PM	India Point Park	Bay	0.5		14.46	20.17	8.39	185.00	13.70	9.34	17.40	22.9	426	26		
06/01/11	1:30 PM	India Point Park	Bay	19.6		17.23	19.43		69.30	6.86	202.00	69.90	389.0	495	40		
06/01/11	1:25 PM	India Point Park	Bay	0.5		14.46										103.014	7.934
06/01/11	8:35 AM	Phillipsdale Landing	Bay	0.5		7.82	21.73	8.48	374.00	18.10	<7.00	9.88	130.0	577	36		
06/01/11	8:40 AM	Phillipsdale Landing	Bay	2.6		19.68	17.40	7.63	196.00	12.40	107.00	48.00	254.0	493	56		
06/01/11	8:35 AM	Phillipsdale Landing	Bay													108.393	8.352
06/01/11	11:15 AM	Pomham Rocks	Bay	0.5		19.41	20.47	8.50	30.10	3.93	123.00	34.10	386.0	292	48		
06/01/11	11:20 AM	Pomham Rocks	Bay	6.4		28.44	13.97		18.60	8.44	7.44	<5.00	<20	302	34		
06/01/11	11:15 AM	Pomham Rocks	Bay	0.5		19.41										84.591	8.772
06/15/11	8:45 AM	Conimicut Point	Bay	0.5		25.56	16.97	7.78	79.80	5.07	45.20	27.90	575.0	384	212		
06/15/11	9:15 AM	Bullocks Reach Buoy	Bay	0.5		23.21	17.39	7.47	128.00	10.80	83.30	38.20	707.0	396	204		
06/15/11	1:30 PM	Edgewood Yacht Club	Bay	0.5		25.9	18.05	7.53	110.00	9.69	195.00	70.80	998.0	536	246		
06/15/11	1:30 PM	Edgewood Yacht Club	Bay	0.5		25.9	18.05	7.53	110.00	9.67	194.00	70.40	998.0	542	240		
06/15/11	1:00 PM	Pomham Rocks	Bay	0.5		23.3	19.70	7.38	155.00	7.52	176.00	68.00	1010.0	497	220		
06/15/11	10:00 AM	India Point Park	Bay	0.5		20.9	17.19	7.38	321.00	11.30	193.00	80.10	1240.0	747	192		
06/15/11	1:20 PM	Phillipsdale Landing	Bay	0.5		14.7	18.31	7.09	360.00	14.40	212.00	86.80	1420.0	775	158		
06/15/11	8:45 AM	Conimicut Point	Bay	0.5		25.6										11.534	4.025
06/15/11	9:15 AM	Bullocks Reach Buoy	Bay	0.5		23.2										17.106	4.227
06/15/11	1:30 PM	Edgewood Yacht Club	Bay	0.5		25.9										8.552	2.733
06/15/11	1:30 PM	Edgewood Yacht Club	Bay	0.5		25.89										2.821	1.567
06/15/11	1:00 PM	Pomham Rocks	Bay	0.5		23.25										0.243	2.609
06/15/11	10:00 AM	India Point Park	Bay	0.5		20.94										12.539	5.377
06/15/11	1:20 PM	Phillipsdale Landing	Bay	0.5		14.67										8.65	3.123
06/29/11	9:45 AM	Conimicut Point	Bay	0.5					8.90	<1.5	<7.00	<5.00	658.0	278	220		
06/29/11	9:55 AM	Conimicut Point	Bay	10.0					18.30	<1.5	<7.00	47.40	862.0	225	394		
06/29/11	10:20 AM	Bullocks Reach Buoy	Bay	0.7		21.80	23.60		11.30	<1.5	<7.00	<5.00	604.0	329	264		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/29/11	10:30 AM	Bullocks Reach Buoy	Bay	7.4		29.33	17.82		16.70	<1.5	<7.00	46.10	697.0	184	342		
06/29/11	2:00 PM	Edgewood Yacht Club	Bay	0.7		17.38	24.12		69.30	15.10	18.20	<5.00	1150.0	391	194		
06/29/11	2:10 PM	Edgewood Yacht Club	Bay	4.5		28.48	18.22		48.10	10.50	95.50	69.70	1410.0	311	200		
06/29/11	2:00 PM	Edgewood Yacht Club	Bay	0.7		17.38	24.12		71.80	15.30	14.40	<5.00	1160.0	395	208		
06/29/11	2:10 PM	Edgewood Yacht Club	Bay	4.5		28.48	18.22		37.80	10.90	<7.00	72.50	1420.0	308	216		
06/29/11	10:50 AM	Pomham Rocks	Bay	0.7		16.97	23.00		188.00	21.70	<7.00	17.60	1360.0	465	128		
06/29/11	10:55 AM	Pomham Rocks	Bay	10.9		29.97	16.97		41.30	4.17	<7.00	87.40	997.0	320	240		
06/29/11	1:20 PM	India Point Park	Bay	0.7		13.98	23.80		475.00	13.90	<7.00	78.00	1800.0	768	68		
06/29/11	1:25 PM	India Point Park	Bay	7.7		29.10	17.56		34.90	4.46	<7.00	81.10	940.0	353	238		
06/29/11	8:45 AM	Phillipsdale Landing	Bay	0.5		2.3	23.53	7.44	248.00	13.80	108.00	110.00	1500.0	563	2		
06/29/11	8:45 AM	Phillipsdale Landing	Bay	2.8		21.6	20.04	7.19	682.00	14.20	<7.00	115.00	2080.0	1020	116		
06/29/11	9:45 AM	Conimicut Point	Bay	0.5												43.99	8.707
06/29/11	10:20 AM	Bullocks Reach Buoy	Bay	0.7		21.8										41.936	1
06/29/11	2:00 PM	Edgewood Yacht Club	Bay	0.7		17.4										44.384	9.39
06/29/11	2:00 PM	Edgewood Yacht Club	Bay	0.7		17.4										63.475	12.375
06/29/11	10:50 AM	Pomham Rocks	Bay	0.7		17.0										26.985	6.962
06/29/11	1:20 PM	India Point Park	Bay	0.7		14.0										10.336	3.701
06/29/11	8:45 AM	Phillipsdale Landing	Bay	0.5		2.31										11.228	3.414
07/13/11	9:45 AM	Conimicut Point	Bay	0.5		24.92	24.40	7.95	<6	<1.5	<7	34.50	984.0	232	6		
07/13/11	10:21 AM	Bullocks Reach Buoy	Bay	0.5		22.36	24.55	8.00	9.56	<1.5	<7	42.50	1120.0	182	28		
07/13/11	1:40 PM	Edgewood Yacht Club	Bay	0.5		23.73	25.47	8.05	8.59	<1.5	16.50	53.40	1070.0	1050	24		
07/13/11	1:40 PM	Edgewood Yacht Club	Bay	0.5		23.73	25.47	8.05	9.21	<1.5	14.90	51.40	1070.0	1140	28		
07/13/11	10:58 AM	Pomham Rocks	Bay	0.5		22.93	24.09	7.91	7.94	4.47	<7	49.00	1090.0	225	6		
07/13/11	1:10 PM	India Point Park	Bay	0.5		14.66	25.20	8.22	112.00	8.41	34.20	78.50	1090.0	587	10		
07/13/11	8:35 AM	Phillipsdale Landing	Bay	0.5		10.68	24.84	8.16	374.00	10.50	<7	91.60	1150.0	678	12		
07/13/11	9:45 AM	Conimicut Point	Bay	0.5		24.92										24.825	6.376
07/13/11	10:21 AM	Bullocks Reach Buoy	Bay	0.5		22.36										30.845	9.039

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/13/11	10:21 AM	Bullocks Reach Buoy	Bay	2.5												25.616	6.348
07/13/11	1:40 PM	Edgewood Yacht Club	Bay	0.5		23.73										31.355	5.181
07/13/11	1:40 PM	Edgewood Yacht Club	Bay	0.5		23.73										28.048	7.886
07/13/11	10:58 AM	Pomham Rocks	Bay	0.5		22.93										27.857	9.281
07/13/11	1:10 PM	India Point Park	Bay	0.5		14.66										44.445	12.65
07/13/11	8:35 AM	Phillipsdale Landing	Bay	0.5												50.89	15.036
07/27/11	8:45 AM	Conimicut Point	Bay	0.1		26.8	23.86	8.16	9.67	<1.5	<7	39.70	695.0	279	86		
07/27/11	8:50 AM	Conimicut Point	Bay		Bottom				<6	<1.5	<7	34.60	744.0	252	82		
07/27/11	9:20 AM	Bullocks Reach Buoy	Bay	0.1		25.5	24.11	8.32	<6	<1.5	<7	41.20	417.0	278	88		
07/27/11	9:25 AM	Bullocks Reach Buoy	Bay		Bottom				16.10	1.60	112.00	107.00	1730.0	368	86		
07/27/11	1:50 PM	Edgewood Yacht Club	Bay	0.1		25.2	25.35	8.49	9.14	<1.5	<7	64.10	477.0	341	78		
07/27/11	2:00 PM	Edgewood Yacht Club	Bay		Bottom				<6	<1.5	<7	75.20	733.0	290	240		
07/27/11	1:50 PM	Edgewood Yacht Club	Bay	0.1		25.2	25.35	8.49	<6	<1.5	<7	62.80	473.0	316	238		
07/27/11	2:00 PM	Edgewood Yacht Club	Bay		Bottom				<6	<1.5	<7	75.10	739.0	234	248		
07/27/11	9:45 AM	Pomham Rocks	Bay	0.1		24.84	23.93	8.16	51.40	2.61	<7	95.70	821.0	387	236		
07/27/11	9:50 AM	Pomham Rocks	Bay		Bottom				19.70	1.90	109.00	88.70	1280.0	335	288		
07/27/11	1:15 PM	India Point Park	Bay	0.1		22.76	24.40	7.58	356.00	11.90	130.00	242.00	1170.0	861	170		
07/27/11	1:20 PM	India Point Park	Bay		Bottom				40.10	3.65	123.00	152.00	1430.0	390	242		
07/27/11	8:45 AM	Phillipsdale Landing	Bay	0.5			23.31	7.41	657.00	14.60	206.00	255.00	1060.0	1220	100		
07/27/11	8:55 AM	Phillipsdale Landing	Bay	2.1			23.82	7.31	88.70	9.87	277.00	269.00	1480.0	669	218		
07/27/11	8:45 AM	Conimicut Point	Bay	0.5		26.80										28.643	8.699
07/27/11	9:20 AM	Bullocks Reach Buoy	Bay	0.5		25.54										32.938	16.016
07/27/11	1:50 PM	Edgewood Yacht Club	Bay	0.5		25.21										53.142	28.775
07/27/11	1:50 PM	Edgewood Yacht Club	Bay	0.5		25.21										47.281	31.305
07/27/11	9:45 AM	Pomham Rocks	Bay	0.5		24.84										53.307	16.542
07/27/11	1:15 PM	India Point Park	Bay	0.5		22.76										12.19	5.124
07/27/11	8:40 AM	Phillipsdale Landing	Bay	0.5												9.841	7.481

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/10/11	9:23 AM	Conimicut Point	Bay	0.3		26.33	24.76	7.88	10.00	<1.5	<7	43.30	1340.0	535	74	25.51	6.898
08/10/11	9:55 AM	Bullocks Reach Buoy	Bay	0.3		24.61	25.03	8.09	<6	<1.5	<7	44.20	1010.0	448	68	41.91	9.972
08/10/11	9:55 AM	Bullocks Reach Buoy	Bay	0.3		24.61	25.03	8.09	<6	<1.5	<7	45.00	1010.0	219	66	46.23	11.33
08/10/11	1:55 PM	Edgewood Yacht Club	Bay	0.3		16.4	26.27	8.17	<6	<1.5	<7	41.50	629.0	234	68	67.88	15.3
08/10/11	10:30 AM	Pomham Rocks	Bay	0.3		21.3	25.27	8.07	47.20	6.20	<7	63.90	870.0	624	64	51.37	15.34
08/10/11	1:25 PM	India Point Park	Bay	0.3		16.4	26.27	8.17	286.00	12.40	24.70	111.00	641.0	631	56	49.14	14.25
08/10/11	2:55 PM	Phillipsdale Landing	Bay	0.5		7.0	27.23	8.62	713.00	18.60	25.40	96.00	551.0	1160	30	44.41	12.8
08/16/11	10:55 AM	Bullocks Reach Buoy	Bay	0.8		24.2										9.154	4.476
08/24/11	11:15 AM	Phillipsdale Landing	Bay	0.5		5.2	23.41	7.50	636.00	12.00	132.00	121.00	2430.0	1150	72		
08/24/11	11:25 AM	Phillipsdale Landing	Bay	2.1		26.8	23.34	7.30	165.00	15.00	387.00	198.00	2490.0	841	188		
08/24/11	1:35 PM	India Point Park	Bay		Surface				295.00	14.90	<7.00	81.80	1950.0	538	164		
08/24/11	1:40 PM	India Point Park	Bay		Bottom				73.00	9.67	286.00	152.00	2030.0	646	286		
08/24/11	1:10 PM	Pomham Rocks	Bay		Surface				89.10	10.60	<7.00	65.00	1700.0	427	232		
08/24/11	1:15 PM	Pomham Rocks	Bay		Bottom				70.50	11.10	201.00	135.00	2240.0	544	286		
08/24/01	10:40 AM	Edgewood Yacht Club	Bay	0.2		21.48	23.19	8.17	90.00	13.50	<7.00	59.80	1630.0	405	270		
08/24/11	10:45 AM	Edgewood Yacht Club	Bay		Bottom				86.10	11.00	134.00	107.00	1960.0	521	288		
08/24/11	10:13 AM	Bullocks Reach Buoy	Bay	0.2		24.65	23.33	8.01	29.80	3.16	10.00	47.20	1500.0	578	272		
08/24/11	10:20 AM	Bullocks Reach Buoy	Bay		Bottom				27.40	6.68	167.00	86.20	2040.0	464	324		
08/24/11	10:13 AM	Bullocks Reach Buoy	Bay	0.2		24.65	23.30	8.01	28.80	3.54	11.60	48.60	1510.0	408	288		
08/24/11	10:20 AM	Bullocks Reach Buoy	Bay		Bottom				26.40	6.72	165.00	86.50	2030.0	468	630		
08/24/11	9:10 AM	Conimicut Point	Bay	0.2		24.28	22.94	8.20	7.80	<1.5	<7.00	25.70	1150.0	438	248		
08/24/11	9:15 AM	Conimicut Point	Bay		Bottom				25.00	4.71	141.00	70.10	1630.0	559	318		
08/24/11	9:10 AM	Conimicut Point	Bay	0.2		24.28										30.815	6.083
08/24/11	10:13 AM	Bullocks Reach Buoy	Bay	0.2		24.65										39.867	10.528
08/24/11	10:40 AM	Edgewood Yacht Club	Bay	0.2		21.48										23.645	5.202
08/24/11	1:10 PM	Pomham Rocks	Bay													43.501	7.099
08/24/11	1:35 PM	India Point Park	Bay													5.251	0.583

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/24/11	11:15 AM	Phillipsdale Landing	Bay	0.5		5.2										13.799	4.675
08/31/11	9:25 AM	Conimicut Point	Bay	0.2		18.4	22.39	7.73	188.00	12.30	228.00	59.90	1960.0	1020	34		
08/31/11	9:57 AM	Bullocks Reach Buoy	Bay	0.2		16.8	22.66	7.55	196.00	12.20	251.00	67.30	2040.0	840	40		
08/31/11	9:57 AM	Bullocks Reach Buoy	Bay	0.2		16.8	22.66	7.55	204.00	12.90	251.00	66.80	2030.0	824	38		
08/31/11	2:26 PM	Edgewood Yacht Club	Bay	0.2		14.4	24.57	7.43	234.00	18.30	85.20	68.90	1930.0	784	18		
08/31/11	2:05 PM	Pomham Rocks	Bay	0.2		14.1	23.98	7.30	212.00	12.10	232.00	66.50	1900.0	712	40		
08/31/11	10:57 AM	India Point Park	Bay	0.2		8.8	22.89	7.27	242.00	8.07	192.00	60.70	2120.0	738	6		
08/31/11	1:30 PM	Phillipsdale Landing	Bay	0.2		1.0	23.20	6.90	422.00	6.45	80.40	87.90	2340.0	898	2		
08/31/11	9:25 AM	Conimicut Point	Bay	0.2		18.4										12.709	2.648
08/31/11	9:57 AM	Bullocks Reach Buoy	Bay	0.2		16.81										8.269	1.423
08/31/11	9:57 AM	Bullocks Reach Buoy	Bay	0.2		16.81										10.758	1.962
08/31/11	2:26 PM	Edgewood Yacht Club	Bay	0.2		14.44										4.664	1.806
08/31/11	2:05 PM	Pomham Rocks	Bay	0.2		14.10										1.915	1.406
08/31/11	10:57 AM	India Point Park	Bay	0.2		8.77										1.729	1.307
08/31/11	1:30 PM	Phillipsdale Landing	Bay	0.2		1.02										8.014	1.283
08/31/11	11:08 AM	Bullocks Reach Buoy	Bay													4.923	2.25
09/13/11	10:20 AM	Bullocks Reach Buoy	Bay	0.7		16.50										13.441	5.287
09/14/11	8:40 AM	Bullocks Reach Buoy	Bay	0.5		16.05										26.464	8.603
09/14/11	10:10 AM	Phillipsdale Landing	Bay	0.5		2.10										1.779	2.158
09/20/11	10:45 AM	Phillipsdale Landing	Bay	0.4		8.59										6.576	2.06
09/21/11	1:40 PM	Phillipsdale Landing	Bay	0.5		4.94	20.63	7.38	935.00	11.50	103.00	81.70	3020.0	1300	86		
09/21/11	9:32 AM	Conimicut Point	Bay	0.5		22.88	19.08	7.89	648.00	11.40	118.00	91.40	2650.0	995	120		
09/21/11	10:10 AM	Bullocks Reach Buoy	Bay	0.5		24.95	19.43	7.92	257.00	14.00	116.00	71.50	1480.0	741	284		
09/21/11	12:50 PM	Edgewood Yacht Club	Bay	0.5		19.98	21.54	7.75	370.00	15.70	131.00	80.00	1720.0	693	234		
09/21/11	12:50 PM	Edgewood Yacht Club	Bay			19.98	21.54	7.75	366.00	15.70	134.00	79.80	1720.0	685	260		
09/21/11	10:45 AM	Pomham Rocks	Bay	0.5		20.9	20.66	7.65	196.00	12.80	28.00	49.90	1270.0	417	318		
09/21/11	2:05 PM	India Point Park	Bay	0.5		9.3	21.61	7.54	232.00	12.80	50.30	50.20	1330.0	768	246		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/21/11	1:40 PM	Phillipsdale Landing	Bay	0.5		4.9										8.222	3.232
09/21/11	2:05 PM	India Point Park	Bay	0.5		9.3										8.517	2.296
09/21/11	10:45 AM	Pomham Rocks	Bay	0.5		20.9										22.76	7.64
09/21/11	12:50 PM	Edgewood Yacht Club	Bay	0.5		20.0										24.661	3.869
09/21/11	12:50 PM	Edgewood Yacht Club	Bay	0.5		20.0										22.095	4.499
09/21/11	10:10 AM	Bullocks Reach Buoy	Bay	0.5		25.0										21.867	8.798
09/21/11	9:32 AM	Conimicut Point	Bay	0.5		22.9										16.656	9.725
10/05/11	9:00 AM	Conimicut Point	Bay	0.5		23.60	19.29	7.74	150.00	10.30	166.00	63.60	1040.0	506	56		
10/05/11	9:05 AM	Conimicut Point	Bay		Bottom				23.30	<1.5	84.80	38.10	477.0	326	68		
10/05/11	9:30 AM	Bullocks Reach Buoy	Bay	0.5		23.50	19.03	7.75	137.00	10.50	166.00	58.70	1110.0	545	58		
10/05/11	9:45 AM	Bullocks Reach Buoy	Bay		Bottom				27.70	3.03	106.00	42.50	561.0	525	56		
10/05/11	9:30 AM	Bullocks Reach Buoy	Bay	0.5		23.50	19.03	7.75	47.40	10.40	165.00	63.40	1050.0	280	28		
10/05/11	9:45 AM	Bullocks Reach Buoy	Bay		Bottom				26.50	2.75	107.00	42.00	581.0	275	26		
10/05/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		27.06	19.92	7.69	62.80	8.77	177.00	69.00	832.0	446	24		
10/05/11	10:40 AM	Edgewood Yacht Club	Bay		Bottom				50.40	8.25	172.00	66.80	934.0	468	26		
10/05/11	10:10 AM	Pomham Rocks	Bay	0.5		23.34	19.59	7.66	160.00	6.95	188.00	82.00	1200.0	641	56		
10/05/11	10:15 AM	Pomham Rocks	Bay		Bottom				25.00	3.15	128.00	51.20	653.0	408	48		
10/05/11	1:30 PM	India Point Park	Bay	0.5		24.18	20.33	7.60	48.10	4.75	246.00	112.00	809.0	446	58		
10/05/11	1:35 PM	India Point Park	Bay		Bottom				25.40	3.14	165.00	65.00	630.0	382	48		
10/05/11	9:00 AM	Conimicut Point	Bay	0.5		23.60										4.818	3.71
10/05/11	9:30 AM	Bullocks Reach Buoy	Bay	0.5		23.50										4.991	4.082
10/05/11	9:35 AM	Bullocks Reach Buoy	Bay		Mid											7.393	5.022
10/05/11	10:10 AM	Pomham Rocks	Bay	0.5		23.34										2.299	2.389
10/05/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		27.1										6.311	3.843
10/05/11	1:30 PM	India Point Park	Bay	0.5		24.2										2.174	2.516
10/05/11	2:00 PM	Phillipsdale Landing	Bay	0.5		5.3										1.351	2.078
10/19/11	9:20 AM	Bullocks Reach Buoy	Bay	0.1		16.0										2.443	1.447

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/19/11	9:20 AM	Bullocks Reach Buoy	Bay	0.1		16.0										2.101	1.306
10/19/11	9:55 AM	Pomham Rocks	Bay	0.1		17.9										2.935	1.594
10/19/11	10:20 AM	Edgewood Yacht Club	Bay	0.1		15.9										4.037	1.502
10/19/11	1:15 PM	India Point Park	Bay	0.1		13.6										3.372	1.688
10/19/11	2:00 PM	Phillipsdale Landing	Bay	0.1		3.1										1.471	1.497
10/19/11	8:55 AM	Conimicut Point	Bay	0.1		16.81										2.341	1.425
10/19/11	2:00 PM	Phillipsdale Landing	Bay	0.1		3.07			652.00	7.85	149.00	111.00	3160.0	1100	4		
10/19/11	1:15 PM	India Point Park	Bay	0.1		13.58			289.00	13.30	176.00	70.40	1960.0	700	16		
10/19/11	10:20 AM	Edgewood Yacht Club	Bay	0.1		15.92			414.00	19.80	228.00	74.10	2110.0	889	10		
10/19/11	9:55 AM	Ponham Rocks	Bay	0.1		17.91			324.00	13.90	184.00	68.20	2000.0	788	16		
10/19/11	9:20 AM	Bullocks Reach	Bay	0.1		16.04			388.00	19.00	194.00	59.90	2180.0	811	14		
10/19/11	9:20 AM	Bullocks Reach	Bay	0.1		16.04			388.00	18.70	198.00	57.50	2140.0	912	6		
10/19/11	8:55 AM	Conimicut Point	Bay	0.1		16.81			355.00	20.10	211.00	64.10	2050.0	789	22		
11/02/11	12:30 PM	Phillipsdale Landing	Bay	0.6		2.30			610.00	11.20	88.00	78.10	2940.0	958	2		
11/02/11	12:35 PM	Phillipsdale Landing	Bay	1.9		4.51			483.00	9.89	71.00	42.00	2820.0	838	<2.0		
11/02/11	9:00 AM	Conimicut Point	Bay	0.5		17.38			288.00	16.80	203.00	38.70	1700.0	657	12		
11/02/11	9:05 AM	Conimicut Point	Bay		Bottom				107.00	5.70	80.10	36.70	822.0	334	32		
11/02/11	9:45 AM	Bullocks Reach Buoy	Bay	0.5		17.62			288.00	14.40	161.00	36.70	1710.0	654	12		
11/02/11	9:50 AM	Bullocks Reach Buoy	Bay		Bottom				124.00	7.18	83.70	36.50	840.0	324	36		
11/02/11	1:10 PM	India Point Park	Bay	0.5		6.05			300.00	8.39	105.00	34.60	1920.0	602	26		
11/02/11	1:15 PM	India Point Park	Bay		Bottom				118.00	7.37	116.00	40.60	909.0	372	36		
11/02/11	1:40 PM	Pomham Rocks	Bay	0.5		19.0			135.00	21.00	193.00	43.40	1570.0	674	16		
11/02/11	1:50 PM	Pomham Rocks	Bay		Bottom				124.00	7.12	92.10	37.50	916.0	368	16		
11/02/11	2:00 PM	Edgewood Yacht Club	Bay	0.5		20.2			285.00	22.30	242.00	43.50	1720.0	705	28		
11/02/11	2:00 PM	Edgewood Yacht Club	Bay		Bottom				187.00	13.30	149.00	41.30	1240.0	489	30		
11/02/11	2:00 PM	Edgewood Yacht Club	Bay	0.5		20.2			286.00	24.00	242.00	43.30	1690.0	700	24		
11/02/11	2:10 PM	Edgewood Yacht Club	Bay		Bottom				185.00	13.10	152.00	40.70	1250.0	555	26		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
11/02/11	9:00 AM	Conimicut Point	Bay	0.5		17.4										0.113	0.43
11/02/11	9:45 AM	Bullocks Reach Buoy	Bay	0.5		17.6										4.482	1.097
11/02/11	1:40 PM	Pomham Rocks	Bay	0.5		19.0										0.664	0.583
11/02/11	2:00 PM	Edgewood Yacht Club	Bay	0.5		20.20										0.656	0.629
11/02/11	2:00 PM	Edgewood Yacht Club	Bay	0.5		20.20										3.463	1.032
11/02/11	1:10 PM	India Point Park	Bay	0.5		6.05										1.606	1.062
11/02/11		Phillipsdale Landing	Bay	0.5												0.864	0.964
11/16/11	9:10 AM	Conimicut Point	Bay	0.5		15.51			434.00	13.60	118.00	36.80	1970.0	727	160		
11/16/11	9:25 AM	Bullocks Reach Buoy	Bay	0.5		14.93			473.00	13.30	105.00	38.80	2170.0	734	138		
11/16/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		12.92			500.00	13.30	100.00	39.30	2390.0	809	102		
11/16/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		12.92			528.00	14.40	102.00	41.10	2360.0	819	110		
11/16/11	9:50 AM	Pomham Rocks	Bay	0.5		13.12			524.00	15.50	124.00	48.90	2360.0	805	122		
11/16/11	10:45 AM	India Point Park	Bay	0.5		8.49			920.00	8.35	49.80	50.40	3160.0	1300	14		
11/16/11	9:10 AM	Conimicut Point	Bay	0.5		15.64										13.693	1.911
11/16/11	9:25 AM	Bullocks Reach Buoy	Bay	0.5		14.93										6.848	1.088
11/16/11	9:50 AM	Pomham Rocks	Bay	0.5		13.12										5.63	1.27
11/16/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		12.92										7.021	1.105
11/16/11	1:00 PM	Edgewood Yacht Club	Bay	0.5		12.92										7.135	1.036
11/16/11	10:45 AM	India Point Park	Bay	0.5		8.49										2.742	0.92
11/16/11	10:20 AM	Phillipsdale Landing	Bay	0.5		1.6										0.483	0.494
12/07/11	1:05 PM	India Point Park	Bay	0.5		4.7	9.75	7.04	711.00	8.83	67.80	50.20	2920.0	993	14		
12/07/11	1:10 PM	India Point Park	Bay		Bottom				137.00	4.97	115.00	40.60	858.0	384	70		
12/07/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		15.5	10.23	7.40	594.00	12.80	162.00	53.60	2440.0	918	26		
12/07/11	10:35 AM	Edgewood Yacht Club	Bay		Bottom				245.00	8.25	135.00	39.30	1260.0	607	52		
12/07/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		15.5	10.23	7.40	598.00	12.90	163.00	52.20	2400.0	965	18		
12/07/11	10:35 AM	Edgewood Yacht Club	Bay		Bottom				256.00	8.05	131.00	39.50	1290.0	632	30		
12/07/11	2:00 PM	Bullocks Reach Buoy	Bay	0.5		12.8	11.39	7.43	570.00	13.30	172.00	49.40	2230.0	906	18		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/07/11	2:15 PM	Bullocks Reach Buoy	Bay		Bottom				273.00	8.29	91.00	33.80	1370.0	488	34		
12/07/11	1:35 PM	Conimicut Point	Bay	0.5		18.79	11.29	7.42	457.00	12.40	174.00	52.50	1970.0	549	54		
12/07/11	1:40 PM	Conimicut Point	Bay		Bottom				233.00	8.36	74.80	31.80	1260.0	462	30		
12/07/11	10:40 AM	Phillipsdale Landing	Bay	0.8		3.36	9.38	7.64	749.00	8.85	70.20	50.60	2880.0	1180	10		
12/07/01	10:50 AM	Phillipsdale Landing	Bay	1.9		3.54	9.32	7.46	692.00	8.82	70.20	39.80	3060.0	1060	20		
12/07/11	1:35 PM	Conimicut Point	Bay	0.5		18.79										2.083	1.162
12/07/11	2:00 PM	Bullocks Reach Buoy	Bay	0.5		12.77										4.942	1.46
12/07/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		15.50										15.082	2.04
12/07/11	10:30 AM	Edgewood Yacht Club	Bay	0.5		15.50										17.846	2.494
12/07/11	1:05 PM	India Point Park	Bay	0.5		4.67										0.958	0.932
12/07/11	1:05 PM	Phillipsdale Landing	Bay	0.5												0.984	1.5
12/21/11	2:00 PM	Phillipsdale Landing	Bay	0.5		5.79	5.58	6.67	713.00	8.35	92.70	40.70	3050.0	1010	16		
12/21/11	1:30 PM	India Point Park	Bay	0.5		10.64	6.64	6.70	561.00	8.18	96.50	40.30	2500.0	815	12		
12/21/11	10:50 AM	Ponham Rocks	Bay	0.5		17.71	8.00	6.31	448.00	8.12	113.00	43.20	1920.0	723	14		
12/21/11	1:05 PM	Edgewood Yacht Club	Bay	0.5		18.43	8.23	6.72	442.00	9.39	162.00	48.40	1920.0	780	6		
12/21/11	10:25 AM	Bullocks Reach	Bay	0.5		19.98	7.22	6.24	394.00	9.69	131.00	39.20	1710.0	667	28		
12/21/11	9:50 AM	Conimicut Point	Bay	0.5		18.86	6.88	6.19	424.00	8.58	121.00	37.60	1820.0	751	26		
12/21/11	9:50 AM	Conimicut Point	Bay	0.5		18.86	6.88	6.19	426.00	8.79	133.00	37.80	1810.0	709	18		
12/21/11	2:00 PM	Phillipsdale Landing	Bay	0.5		5.79										0.796	1.142
12/21/11	1:30 PM	India Point Park	Bay	0.5		10.64										0.76	1.073
12/21/11	10:50 AM	Pomham Rocks	Bay	0.5		17.71										1.119	0.991
12/21/11	1:05 PM	Edgewood Yacht Club	Bay	0.5		18.43										2.414	1.388
12/21/11	10:25 AM	Bullocks Reach Buoy	Bay	0.5		19.98										3.922	1.247
12/21/11	9:50 AM	Conimicut Point	Bay	0.5		18.9										1.936	2.408
12/21/11	9:50 AM	Conimicut Point	Bay	0.5		18.9										1.895	1.171
RIVERS																	
01/19/11	9:20 AM	Blackstone River @ Slater Dam	River				1.46	8.28	1070.00	18.40	270.00	11.80	2150.0	1610	4		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
01/19/11	9:20 AM	Blackstone River @ Slater Dam	River				1.46	8.28	1060.00	17.30	259.00	11.30	2520.0	1560	6		
01/19/11	2:15 PM	Coles River @ Milford Rd	River				1.15	7.97	281.00	2.43	40.20	7.26	1130.0	662	<2.0		
01/19/11	2:45 PM	Lees River @ Rte. 6	River				1.73	7.21	129.00	<1.5	14.10	<5.00	1760.0	306	42		
01/19/11	9:56 AM	Moshassuck River @ Higginson Ave.	River				1.78	8.02	621.00	4.52	59.30	<5.00	3030.0	819	4		
01/19/11	10:25 AM	Moshassuck River @ Mill Street Bridge	River				1.65	8.12	622.00	8.12	144.00	5.50	2730.0	1020	10		
01/19/11	1:55 PM	Pawtuxet River @ Terminal Falls	River				1.90	7.96	1140.00	11.40	546.00	61.40	2300.0	2050	8		
01/19/11	1:15 PM	Runnins River @ River Road	River				0.19	7.79	514.00	10.00	292.00	9.72	1650.0	1080	6		
01/19/11	9:05 AM	Taunton River @ Berkley Bridge	River				0.60	7.50	549.00	6.08	51.50	20.60	2500.0	733	28		
01/19/11	9:05 AM	Taunton River @ Berkley Bridge	River				0.60	7.50	538.00	5.43	54.10	21.30	2470.0	744	28		
01/19/11	1:45 PM	Warren Reservoir/Kickemuit River	River				0.70	8.10	1010.00	14.00	202.00	5.65	2800.0	1430	4		
01/19/11	12:55 PM	Woonasquatucket River @ Manton Ave.	River				1.89	8.12	494.00	6.71	92.30	<5.00	1590.0	900	8		
01/19/11	1:10 PM	Woonasquatucket River @ Valley Street	River				1.90	7.86	509.00	5.98	93.80	<5.00	1620.0	831	6		
02/03/11	10:15 AM	Moshassuck River @ Higginson Ave.	River				0.84	8.66	595.00	6.09	59.70	<5.00	3420.0	774	14		
02/03/11	10:50 AM	Moshassuck River @ Mill Street Bridge	River				0.90	7.91	679.00	8.20	122.00	<5.00	3890.0	902	6		
02/03/11	1:35 PM	Pawtuxet @ Terminal Falls	River				0.81	7.49	1210.00	19.00	331.00	15.00	2660.0	1680	6		
02/03/11	1:35 PM	Pawtuxet @ Terminal Falls	River				0.81	7.49	1120.00	19.00	323.00	13.50	3070.0	1600	12		
02/03/11	1:00 PM	Woonasquatucket River @ Manton Ave.	River				1.12	7.66	643.00	54.20	167.00	<5.00	2100.0	970	4		
02/03/11	12:40 PM	Woonasquatucket River @ Valley Street	River				1.16	7.53	693.00	47.10	163.00	<5.00	2160.0	987	12		
02/16/11	10:00 AM	Blackstone River @ Slater Dam	River				0.31	7.91	945.00	20.90	609.00	12.70	3090.0	1740	4		
02/16/11	10:00 AM	Blackstone River @ Slater Dam	River				0.31	7.91	962.00	21.60	595.00	13.50	3070.0	1750	10		
02/16/11	10:00 AM	Coles River @ Milford Rd	River				0.68	8.32	279.00	4.33	28.00	6.89	779.0	660	8		
02/16/11	10:20 AM	Lees River @ Rte. 6	River				1.22	7.65	396.00	2.89	27.10	<5.00	2550.0	608	132		
02/16/11	9:35 AM	Moshassuck River @ Higginson Ave.	River				1.27	8.13	660.00	6.86	33.70	8.35	3570.0	833	14		
02/16/11	1:50 PM	Moshassuck River @ Mill Street Bridge	River				2.48	7.48	818.00	9.26	116.00	<5.00	3820.0	1100	18		
02/16/11	8:35 AM	Palmer River at Route 6 in Rehoboth	River				0.03	8.13	383.00	4.25	94.20	10.00	1540.0	775	28		
02/16/11	10:40 AM	Pawtuxet @ Terminal Falls	River				1.79	7.59	1270.00	20.80	277.00	21.30	3130.0	1730	2		
02/16/11	8:10 AM	Runnins River @ River Road	River				0.22	8.79	641.00	8.54	46.80	5.70	3290.0	1100	12		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
02/16/11	11:00 AM	Taunton River @ Berkley Bridge	River				1.21	9.18	856.00	13.40	116.00	22.80	2040.0	1250	12		
02/16/11	9:20 AM	Warren Reservoir/Kickemuit River	River				1.32	8.53	21.70	1.74	11.80	21.50	1050.0	460	30		
02/16/11	1:05 PM	Woonasquatucket River @ Manton Ave.	River				2.11	7.60	620.00	71.10	165.00	9.42	3090.0	992	2		
02/16/11	1:30 PM	Woonasquatucket River @ Valley Street	River				2.56	7.57	665.00	63.10	144.00	<5.00	2910.0	979	6		
03/02/11	10:30 AM	Blackstone River @ Slater Dam	River				1.76	8.02	569.00	13.60	346.00	14.00	1760.0	1170	<2.0		
03/02/11	10:30 AM	Blackstone River @ Slater Dam	River				1.76	8.02	564.00	13.00	344.00	14.00	1990.0	1200	<2.0		
03/02/11	8:35 AM	Blackstone River @ Stateline	River				0.97	8.65	507.00	15.90	290.00	9.04	1260.0	998	<2.0		
03/02/11	10:00 AM	Moshassuck River @ Higginson Ave.	River				2.48	8.32	555.00	3.69	34.90	<5.00	2420.0	789	4		
03/02/11	1:30 PM	Moshassuck River @ Mill Street Bridge	River				3.97	7.57	684.00	5.93	66.20	<5.00	2640.0	942	2		
03/02/11	2:10 PM	Pawtuxet River @ Terminal Falls	River				3.67	7.63	961.00	9.45	224.00	19.90	1540.0	1430	<2.0		
03/02/11	1:05 PM	Woonasquatucket Rive @ Valley Street	River				3.39	7.77	537.00	33.50	97.80	38.60	2100.0	837	<2.0		
03/02/11	12:45 PM	Woonasquatucket River @ Manton Ave.	River				3.10	8.04	505.00	33.00	87.10	8.53	1870.0	749	<2.0		
03/16/11	11:30 AM	Blackstone River @ Slater Dam	River				4.95	7.42	519.00	10.70	341.00	11.50	2020.0	1080	6		
03/16/11	11:30 AM	Blackstone River @ Slater Dam	River				4.95	7.42	518.00	11.50	340.00	11.20	1960.0	1060	4		
03/16/11	12:40 PM	Blackstone River @ Stateline	River				4.36	7.25	475.00	15.10	270.00	6.72	2060.0	953	4		
03/16/11	10:30 AM	Coles River @ Milford Rd	River				6.38	7.80	191.00	3.12	17.30	9.46	500.0	577	4		
03/16/11	10:05 AM	Lees River @ Rte. 6	River				6.69	8.04	493.00	1.96	23.90	<5.00	2020.0	558	4		
03/16/11	11:00 AM	Moshassuck River @ Higginson Ave.	River				5.18	7.32	380.00	5.33	32.60	<5.00	2270.0	652	4		
03/16/11	10:25 AM	Moshassuck River @ Mill Street Bridge	River				5.58	7.28	600.00	10.90	137.00	6.16	2270.0	976	14		
03/16/11	11:25 AM	Palmer River at Route 6 in Rehoboth	River				5.39	7.02	296.00	2.88	25.40	7.68	809.0	636	6		
03/16/11	8:15 AM	Pawtuxet @ Terminal Falls	River				5.46	7.48	796.00	14.90	152.00	19.50	2000.0	1120	2		
03/16/11	11:45 AM	Runnins River @ River Road	River				4.83	7.09	568.00	5.96	31.60	6.75	908.0	911	8		
03/16/11	8:50 AM	Taunton River @ Berkley Bridge	River				5.28	7.34	434.00	10.70	105.00	8.66	1060.0	815	6		
03/16/11	1:05 PM	Ten Mile @ Outlet of Omega Pond	River				6.91	7.29	1340.00	19.50	175.00	17.80	2190.0	1830	8		
03/16/11	1:05 PM	Ten Mile @ Outlet of Omega Pond	River				6.91	7.29	1320.00	17.90	174.00	17.60	1910.0	1820	2		
03/16/11	10:38 AM	Warren Reservoir/Kickemuit River	River				6.29	7.44	358.00	6.05	24.60	5.37	1040.0	739	2		
03/16/11	9:35 AM	Woonasquatucket River @ Manton Ave.	River				4.76	7.53	496.00	55.10	66.80	8.44	1450.0	707	4		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
03/16/11	9:55 AM	Woonasquatucket River @ Valley Street	River				4.89	7.49	532.00	55.00	88.30	36.40	1740.0	893	<2.0		
03/30/11	11:35 AM	Blackstone River @ Slater Dam	River				6.15	7.45	744.00	30.80	459.00	5.92	2720.0	1380	2		
03/30/11	11:35 AM	Blackstone River @ Slater Dam	River				6.15	7.45	740.00	30.70	456.00	6.16	2580.0	1380	2		
03/30/11	1:22 PM	Blackstone River @ Stateline	River				6.59	7.28	668.00	23.30	549.00	5.73	2620.0	1330	<2.0		
03/30/11	10:50 AM	Moshassuck River @ Higginson Ave.	River				6.11	7.45	405.00	3.14	15.00	<5.00	2460.0	585	<2.0		
03/30/11	10:24 AM	Moshassuck River @ Mill Street Bridge	River				6.42	7.30	663.00	8.89	45.70	<5.00	2610.0	867	2		
03/30/11	8:15 AM	Pawtuxet @ Terminal Falls	River				6.44	7.37	1130.00	13.60	213.00	23.00	2630.0	1510	<2.0		
03/30/11	9:05 AM	Woonasquatucket River @ Manton Ave.	River				6.41	7.27	554.00	4.81	15.70	<5.00	2280.0	724	<2.0		
03/30/11	9:30 AM	Woonasquatucket River @ Valley Street	River				6.41	7.35	586.00	21.80	7.00	<5.00	2420.0	741	<2.0		
04/20/11	10:15 AM	Blackstone River & Slater Dam	River						447.00	17.60	127.00	37.00	1390.0	742	2744		
04/20/11	10:15 AM	Blackstone River @ Slater Dam	River						442.00	19.60	123.00	36.30	1510.0	809	2962		
04/20/11	8:35 AM	Blackstone River @ Stateline	River				10.64	7.32	431.00	21.90	163.00	9.79	1650.0	770	2892		
04/20/11	10:15 AM	Coles River @ Milford Rd	River				11.67		80.60	1.58	31.60	10.90	187.0	551	<2.0		
04/20/11	9:50 AM	Lees River @ Rte. 6	River				9.83		29.50	<1.5	<7.00	<5.00	231.0	206	184		
04/20/11	9:20 AM	Moshassuck River @ Higginson Ave	River						293.00	5.04	25.70	<5.00	2440.0	548	2466		
04/20/11	1:20 PM	Moshassuck River @ Mill Street Bridge	River						446.00	4.82	34.00	<5.00	2500.0	642	2884		
04/20/11	11:00 AM	Palmer River at Route 6 in Rehoboth	River				9.93		49.30	2.39	33.50	6.50	933.0	400	3158		
04/20/11	1:50 PM	Pawtuxet @ Terminal Falls	River						495.00	9.94	102.00	9.63	1790.0	759	2852		
04/20/11	2:10 PM	Runnins River @ River Road	River				10.48		326.00	1.77	<7.00	<5.00	1050.0	709	2442		
04/20/11	8:45 AM	Taunton River @ Berkley Bridge	River				11.68		308.00	3.20	67.50	19.40	502.0	682	14		
04/20/11	12:55 PM	Ten Mile @ Outlet of Omega Pond	River				12.06		1070.00	25.80	142.00	8.82	1460.0	1420	2726		
04/20/11	12:55 PM	Ten Mile @ Outlet of Omega Pond	River				12.06		1060.00	25.90	144.00	8.64	1480.0	1460	2764		
04/20/11	10:40 AM	Warren Reservoir/Kickemuit River	River				10.70		146.00	4.02	34.80	7.81	464.0	612	84		
04/20/11	12:30 PM	Woonasquatucket River @ Manton Ave	River						388.00	2.96	25.10	<5.00	1590.0	552	2994		
04/20/11	12:50 PM	Woonasquatucket River @ Valley Street	River						429.00	2.67	20.10	<5.00	1680.0	587	3430		
05/04/11	2:04 PM	Blackstone River @ Slater Dam	River				17.06	7.52	622.00	9.90	32.20	9.25	1660.0	878	12		
05/04/11	2:04 PM	Blackstone River @ Slater Dam	River				17.06	7.52	621.00	17.80	33.20	9.24	1660.0	871	10		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
05/04/11	10:57 AM	Moshassuck River @ Higginson Ave.	River				16.24	7.47	156.00	4.58	38.40	<5.00	1800.00	348.00	6		
05/04/11	10:35 AM	Moshassuck River @ Mill Street Bridge	River				15.71	7.35	429.00	6.51	52.70	<5.00	2200.0	652	8		
05/04/11	8:25 AM	Paxtuxet River @ Terminal Falls	River				15.95	7.09	765.00	10.80	42.40	9.53	1390.0	980	6		
05/04/11	1:35 PM	Ten Mile @ Outlet of Omega Pond	River				17.54	7.63	1490.00	18.30	20.40	9.49	1050.0	1830	10		
05/04/11	9:45 AM	Woonasquatucket River @ Manton Ave.	River				16.74	7.27	349.00	5.44	41.10	5.47	1450.0	578	8		
05/04/11	10:10 AM	Woonasquatucket River @ Valley Street	River				16.55	7.39	426.00	6.53	26.90	<5.00	1640.0	616	4		
05/18/11	11:05 AM	Blackstone River @ Stateline	River				13.18	7.40	450.00	20.40	65.50	45.50	1740.0	731	16		
05/18/11	10:15 AM	Blackstone River @ Bikepath Bridge	River				13.56	7.60	546.00	15.30	68.00	17.60	1900.0	842	16		
05/18/11	8:45 AM	Blackstone River @ Slater Dam	River				13.76	7.78	546.00	17.90	69.40	16.40	1790.0	842	12		
05/18/11	8:45 AM	Blackstone River @ Slater Dam	River				13.76	7.78	550.00	17.60	70.50	16.60	1870.0	833	14		
05/18/11	2:53 PM	Pawtuxet @ Terminal Falls	River				13.91	7.21	833.00	11.60	109.00	15.90	2310.0	1140	2		
05/18/11	1:50 PM	Woonasquatucket River @ Valley Street	River				13.70	7.73	379.00	4.61	75.30	<5.00	1850.0	628	8		
05/18/11	12:00 PM	Moshassuck River @ Higginson Ave.	River				13.77	7.42	192.00	4.35	58.40	<5.00	2210.0	418	6		
05/18/11	2:15 PM	Moshassuck River @ Mill Street Bridge	River				13.56	7.36	383.00	7.15	97.00	<5.00	2450.0	666	4		
05/18/11	8:30 AM	Ten Mile @ Outlet of Omega Pond	River				14.70	7.40	2420.00	17.20	64.20	15.20	1320.0	2720	14		
05/18/11	8:30 AM	Ten Mile @ Outlet of Omega Pond	River				14.70	7.40	2410.00	16.60	59.60	15.60	1320.0	2730	14		
05/18/11	9:45 AM	Runnins River @ River Road	River				12.28	7.19	416.00	2.92	21.30	<5.00	2080.0	912	4		
05/18/11	10:15 AM	Palmer River at Route 6 in Rehoboth	River				12.90	7.53	83.70	<1.5	32.20	<5.00	822.0	354	48		
05/18/11	10:30 AM	Warren Reservoir/Kickemuit River	River				13.60	7.30	213.00	10.40	107.00	9.67	1440.0	826	8		
05/18/11	10:55 AM	Coles River @ Milford Rd	River				14.63	7.02	162.00	<1.5	56.10	14.40	585.0	812	6		
05/18/11	11:15 AM	Lees River @ Rte. 6	River				13.61	7.64	43.60	<1.5	13.80	5.23	429.0	230	42		
05/18/11	12:30 PM	Taunton River @ Berkley Bridge	River				13.71	7.06	532.00	6.03	51.00	9.97	1630.0	956	10		
06/01/11	9:10 AM	Ten Mile @ Outlet of Omega Pond	River				23.55	7.77	1900.00	29.10	72.70	7.11	568.0	2280	22		
06/01/11	10:15 AM	Blackstone River @ Slater Dam	River				22.80	7.48	704.00	8.11	31.10	14.50	2140.0	994	6		
06/01/11	10:15 AM	Blackstone River @ Slater Dam	River				22.80	7.48	710.00	8.03	30.10	14.10	2100.0	989	4		
06/01/11	1:18 PM	Pawtuxet @ Terminal Falls	River				21.84	6.95	1120.00	101.00	538.00	22.00	2710.0	1940	2		
06/01/11	11:10 AM	Woonasquatucket River @ Manton Ave.	River				22.67	7.17	344.00	7.00	98.20	6.28	1710.0	659	2		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
06/01/11	11:30 AM	Woonasquatucket River @ Valley Street	River				22.30	7.48	467.00	8.01	69.10	6.93	2040.0	750	<2		
06/01/11	10:40 AM	Moshassuck River @ Higginson Ave.	River				22.04	7.25	301.00	20.00	244.00	17.10	2950.0	945	6		
06/01/11	12:42 PM	Moshassuck River @ Mill Street Bridge	River				20.90	7.31	582.00	24.70	140.00	5.12	3980.0	965	2		
06/15/11	1:50 PM	Ten Mile @ Outlet of Omega Pond	River				20.25	7.69	2110.00	45.40	232.00	24.50	2460.0	2810	18		
06/15/11	1:50 PM	Ten Mile @ Outlet of Omega Pond	River				20.25	7.69	2100.00	44.40	230.00	23.90	2510.0	2690	16		
06/15/11	12:05 PM	Runnins River @ River Road	River				15.94	6.97	396.00	8.81	50.80	10.90	4000.0	973	2		
06/15/11	11:05 AM	Palmer River at Route 6 in Rehoboth	River				17.47	6.63	144.00	5.65	57.40	19.10	2000.0	729	46		
06/15/11	11:30 AM	Warren Reservoir/Kickemuit River	River				18.16	6.56	134.00	12.50	144.00	25.60	808.0	936	<2.0		
06/15/11	11:00 AM	Coles River @ Milford Rd	River				17.59	7.12	156.00	11.10	93.70	32.30	984.0	974	2		
06/15/11	10:40 AM	Lees River @ Rte. 6	River				18.99	7.27	92.30	3.17	27.00	11.00	1480.0	403	148		
06/15/11	9:50 AM	Taunton River @ Berkley Bridge	River				17.97	7.09	534.00	9.45	78.40	26.20	2180.0	902	70		
06/15/11	10:10 AM	Blackstone River @ Stateline	River				17.87	7.38	516.00	19.80	51.40	22.00	1980.0	794	4		
06/15/11	9:15 AM	Blackstone River @ Bikepath	River				18.09	7.43	632.00	31.60	126.00	23.70	2060.0	1020	12		
06/15/11	8:30 AM	Blackstone River @ Slater Dam	River				17.94	7.48	622.00	22.80	119.00	24.50	2090.0	992	8		
06/15/11	8:30 AM	Blackstone River @ Slater Dam	River				17.94	7.48	622.00	22.70	116.00	24.80	1880.0	1040	10		
06/15/11	2:35 PM	Pawtuxet River @ Terminal Falls	River				18.67	7.15	636.00	24.20	79.60	13.40	2400.0	1050	8		
06/15/11	11:05 AM	Woonasquatucket River @ Manton Ave.	River				18.53	7.30	277.00	5.22	101.00	7.69	1670.0	590	8		
06/15/11	1:25 PM	Woonasquatucket River @ Valley Street	River				19.16	7.40	370.00	10.00	74.50	7.96	1700.0	760	<2		
06/15/11	2:00 PM	Moshassuck River @ Mill Street Bridge	River				17.63	7.26	502.00	20.40	119.00	5.87	3160.0	836	8		
06/29/11	8:15 AM	Ten Mile @ Outlet of Omega Pond	River				22.63	7.32	1870.00	36.20	72.80	17.90	2720.0	2300	28		
06/29/11	10:45 AM	Blackstone River @ Slater Dam	River				23.07	7.52	532.00	9.09	27.30	26.70	2400.0	834	12		
06/29/11	10:45 AM	Blackstone River @ Slater Dam	River				23.07	7.52	536.00	8.87	10.80	26.80	2290.0	894	12		
06/29/11	1:45 PM	Pawtuxet River @ Terminal Falls	River				23.25	7.10	1050.00	16.10	10.20	57.60	2820.0	1370	2		
06/29/11	12:45 PM	Woonasquatucket River @ Manton Ave.	River				25.33	7.25	375.00	5.79	17.00	7.17	1680.0	644	4		
06/29/11	1:15 PM	Woonasquatucket River @ Valley Street	River				24.56	7.55	488.00	6.16	<7.0	7.72	1770.0	742	<2		
06/29/11	10:00 AM	Moshassuck River @ Higginson Ave.	River				23.13	7.38	216.00	12.30	24.90	9.73	2980.0	481	14		
06/29/11	11:10 AM	Moshassuck River @ Mill Street Bridge	River				21.51	7.26	614.00	21.60	85.20	<5.00	3980.0	922	10		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
07/13/11	10:00 AM	Blackstone River @ Stateline	River				25.75	7.72	581.00	6.28	<7.0	32.40	1630.0	907	2		
07/13/11	9:30 AM	Blackstone River @ Bikepath	River				25.82	7.89	677.00	7.06	9.34	51.30	1900.0	986	8		
07/13/11	8:35 AM	Blackstone River @ Slater Dam	River				23.81	7.75	677.00	6.76	35.90	26.40	1990.0	1060	12		
07/13/11	8:35 AM	Blackstone River @ Slater Dam	River				23.81	7.75	678.00	6.82	51.60	26.60	1880.0	996	2		
07/13/11	2:10 PM	Pawtuxet River @ Terminal Falls	River				24.81	8.98	929.00	12.50	43.90	123.00	2190.0	1040	2		
07/13/11	1:40 PM	Woonasquatucket River @ Valley Street	River				21.78	7.78	451.00	5.07	<7.0	6.76	1560.0	750	2		
07/13/11	1:05 PM	Moshassuck River @ Higginson Ave.	River				22.88	7.79	169.00	4.43	41.40	12.70	2030.0	450	2		
07/13/11	1:25 PM	Moshassuck River @ Mill Street Bridge	River				21.98	7.58	559.00	18.60	84.30	5.72	3620.0	1040	2		
07/13/11	9:20 AM	Ten Mile @ Outlet of Omega Pond	River				26.26	7.63	1170.00	20.50	74.40	12.10	512.0	1460	2		
07/13/11	9:20 AM	Ten Mile @ Outlet of Omega Pond	River				26.26	7.63	1180.00	16.90	73.10	11.80	582.0	1580	16		
07/13/11	9:50 AM	Runnins River @ River Road	River				22.73	7.06	343.00	6.07	36.80	7.48	4140.0	902	<2.0		
07/13/11	10:10 AM	Palmer River at Route 6 in Rehoboth	River				26.71	6.93	59.40	2.80	21.70	36.40	2110.0	500	12		
07/13/11	10:20 AM	Warren Reservoir/Kickemuit River	River				26.58	6.99	14.40	1.86	48.20	11.40	964.0	642	2		
07/13/11	11:00 AM	Coles River @ Milford Rd	River				26.27	6.82	<6	<1.5	<7.0	18.00	1510.0	716	<2.0		
07/13/11	11:30 AM	Lees River @ Rte. 6	River				28.00	7.96	<6	<1.5	<7.0	19.60	711.0	296	4		
07/13/11	1:15 PM	Taunton River @ Berkley Bridge	River				26.13	7.22	478.00	5.25	14.20	58.60	2190.0	881	2		
07/27/11	8:10 AM	Ten Mile @ Outlet of Omega Pond	River				24.90	7.25	799.00	4.48	234.00	11.60	1030.0	1500	18		
07/27/11	10:00 AM	Blackstone River @ Slater Dam	River				22.10	7.58	941.00	11.20	33.00	11.80	670.0	1350	18		
07/27/11	10:00 AM	Blackstone River @ Slater Dam	River				22.10	7.58	939.00	10.20	35.90	11.10	673.0	1470	18		
07/27/11	2:00 PM	Pawtuxet River @ Terminal Falls	River				19.18	7.98	1230.00	10.60	30.10	45.40	2780.0	1840	12		
07/27/11	12:55 PM	Woonasquatucket River @ Manton Ave.	River				25.00	7.42	299.00	7.51	129.00	8.52	1880.0	872	6		
07/27/11	1:10 PM	Woonasquatucket River @ Valley Street	River				23.37	7.69	612.00	7.11	29.50	<5.00	2090.0	886	12		
07/27/11	10:20 AM	Moshassuck River @ Higginson Ave.	River				21.15	7.89	196.00	2.71	39.60	9.81	2630.0	461	12		
07/27/11	1:30 PM	Moshassuck River @ Mill Street Bridge	River				21.03	7.35	684.00	21.20	62.40	<5.00	3660.0	998	16		
08/10/11	10:20 AM	Blackstone River @ Stateline	River				24.48	7.47	528.00	6.74	32.20	36.50	1570.0	843	8		
08/10/11	9:35 AM	Blackstone River @ Bikepath	River				24.66	7.47	771.00	9.60	27.10	34.90	1230.0	1300	6		
08/10/11	9:25 AM	Blackstone River @ Slater Dam	River				24.44	7.27	894.00	11.60	40.60	29.50	1180.0	1250	4		

Table 30: River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/10/11	2:20 PM	Pawtuxet River @ Terminal Falls	River				19.88	7.69	743.00	18.50	62.60	34.00	2180.0	1180	2		
08/10/11	2:20 PM	Pawtuxet River @ Terminal Falls	River				19.88	7.69	740.00	21.20	57.90	45.10	2130.0	1130	4		
08/10/11	1:35 PM	Woonasquatucket River @ Valley Street	River				22.21	7.68	354.00	5.73	40.30	9.49	1460.0	638	8		
08/10/11	12:44 PM	Moshassuck River @ Higginson Ave.	River				23.28	7.38	38.20	1.56	<7	<5.00	1950.0	405	20		
08/10/11	1:15 PM	Moshassuck River @ Mill Street Bridge	River				24.48	7.47	356.00	6.84	35.40	5.37	2250.0	682	6		
08/10/11	2:20 PM	Ten Mile @ Outlet of Omega Pond	River				24.83	7.53	1590.00	27.30	50.10	19.30	1400.0	2080	6		
08/10/11	2:20 PM	Ten Mile @ Outlet of Omega Pond	River				24.83	7.53	1600.00	27.40	51.50	17.30	1410.0	2040	6		
08/10/11	1:25 PM	Runnins River @ River Road	River				26.13	6.81	386.00	3.34	14.90	8.00	2780.0	815	<2.0		
08/10/11	12:50 PM	Palmer River at Route 6 in Rehoboth	River				22.70	6.87	213.00	5.73	54.00	21.60	2290.0	799	18		
08/10/11	11:00 AM	Warren Reservoir/Kickemuit River	River				24.87	6.81	<6	<1.5	<7	15.40	1670.0	541	4		
08/10/11	10:25 AM	Coles River @ Milford Rd	River				23.88	7.47	49.70	1.81	43.40	21.80	1910.0	794	2		
08/10/11	9:50 AM	Lees River @ Rte. 6	River				26.79	7.78	7.36	<1.5	<7	10.40	1290.0	338	64		
08/10/11	8:35 AM	Taunton River @ Berkley Bridge	River				25.17	7.40	762.00	6.02	17.20	34.80	2390.0	1140	14		
08/11/11	2:40 PM	Pawtuxet River @ Terminal Falls	River				21.22	7.67	819.00	13.00	<7.00	28.60	2450.0	1220	4		
08/12/11	2:25 PM	Pawtuxet River @ Terminal Falls	River						1030.00	14.70	32.40	30.70	2640.0	1340	6		
08/15/11	2:15 PM	Pawtuxet River @ Terminal Falls	River				21.99	7.17	1060.00	17.00	85.20	42.90	2440.0	1470	18		
08/15/11	2:15 PM	Pawtuxet River @ Terminal Falls	River				21.99	7.17	1060.00	16.60	88.00	42.90	2370.0	1450	16		
08/24/11	2:50 PM	Pawtuxet River @ Terminal Falls	River				22.83	7.11	963.00	18.60	79.60	85.90	2910.0	1380	70		
08/24/11	2:50 PM	Pawtuxet River @ Terminal Falls	River				22.83	7.11	943.00	12.00	77.90	65.00	2950.0	1400	64		
08/24/11	1:30 PM	Blackstone River @ Slater Dam	River				23.07	7.75	691.00	6.41	58.90	22.00	2690.0	1440	26		
08/24/11	11:50 AM	Ten Mile @ Outlet of Omega Pond	River				23.97	7.76	1300.00	16.20	88.10	5.48	1190.0	1690	32		
08/24/11	9:25 AM	Woonasquatucket River @ Manton Ave.	River				22.00	7.74	350.00	3.92	26.30	5.43	1600.0	615	6		
08/24/11	9:40 AM	Woonasquatucket River @ Valley Street	River				21.33	7.87	472.00	3.23	<7.0	<5.00	1700.0	690	16		
08/24/11	1:50 PM	Moshassuck River @ Higginson Ave.	River				21.61	7.37	182.00	5.20	45.10	7.50	3320.0	477	8		
08/24/11	10:10 AM	Moshassuck River @ Mill Street Bridge	River				19.59	7.59	494.00	11.10	62.60	<5.00	4020.0	990	24		
08/29/11	1:00 PM	Blackstone River @ Stateline	River				20.99	6.73	271.00	5.37	74.70	36.80	1450.0	810	8		
08/29/11	2:05 PM	Blackstone River @ Slater Dam	River				21.58	6.95	278.00	5.15	42.90	44.40	1610.0	720	24		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
08/29/11	1:25 PM	Taunton River @ Berkley Bridge	River				22.89	6.88	729.00	5.75	<7.00	29.80	3600.0	1150	20		
08/29/11	2:40 PM	Woonasquatucket River @ Valley Street	River				22.39	7.25	223.00	2.89	23.30	7.24	2030.0	573	6		
08/29/11	3:00 PM	Moshassuck at Mill St.	River				21.11	7.28	284.00	7.19	54.20	5.76	3160.0	471	6		
08/29/11	3:35 PM	Pawtuxet River at Broad St	River				22.08	7.08	468.00	9.68	36.60	35.10	2550.0	1060	8		
08/29/11	2:30 PM	Ten Mile @ Outlet of Omega Pond	River				22.50	7.21	1410.00	16.50	78.00	46.90	1390.0	1840	16		
08/29/11	1:00 PM	Blackstone River @ Stateline	River				20.99	6.73	284.00	5.86	71.90	35.00	1460.0	940	12		
08/31/11	9:10 AM	Blackstone River @ Stateline	River				19.83	7.28	277.00	4.57	22.30	24.80	1910.0	697	8		
08/31/11	9:10 AM	Blackstone River @ Stateline	River				19.83	7.28	279.00	4.62	15.40	25.10	1870.0	685	4		
08/31/11	8:20 AM	Blackstone River @ Slater Dam	River				20.83	7.43	316.00	5.11	46.70	46.90	2140.0	727	8		
08/31/11	2:20 PM	Taunton River @ Berkley Bridge	River				21.22	7.42	674.00	5.44	20.40	32.50	3620.0	1160	10		
08/31/11	10:45 AM	Woonasquatucket River @ Valley Street	River				22.99	7.68	418.00	4.53	7.38	6.44	2500.0	739	10		
08/31/11	10:30 AM	Moshassuck River @ Mill St.	River				19.81	6.98	447.00	9.19	44.80	<5.00	3800.0	721	4		
08/31/11	2:50 PM	Pawtuxet @ Broad Street	River				20.28	6.99	974.00	49.60	178.00	25.30	2920.0	1540	2		
08/31/11	1:30 PM	Ten Mile @ Outlet of Omega Pond	River				21.21	7.42	1500.00	20.40	122.00	24.20	1480.0	2030	16		
09/21/11	9:30 AM	Blackstone River @ Stateline	River				21.22	7.69	848.00	13.00	35.60	18.50	3270.0	1170	14		
09/21/11	9:30 AM	Blackstone River @ Stateline	River				21.22	7.69	870.00	13.60	35.40	20.10	3220.0	1190	24		
09/21/11	8:10 AM	Blackstone River @ Slater Dam	River				16.58	7.86	801.00	8.19	34.10	38.40	3330.0	1100	6		
09/21/11	2:00 PM	Ten Mile @ Outlet of Omega Pond	River				18.98	7.98	1850.00	18.20	60.70	16.40	3160.0	2320	8		
09/21/11	2:30 PM	Pawtuxet River	River				18.68	7.68	1090.00	19.40	74.00	78.70	3460.0	1330	30		
09/21/11	10:25 AM	Woonasquatucket @ Valley Street	River				16.28	7.38	585.00	4.58	17.40	<5.00	2620.0	887	38		
09/21/11	10:00 AM	Moshassuck @ Mill Street	River				17.89	7.46	550.00	10.10	74.60	<5.00	4080.0	825	8		
09/21/11	1:15 PM	Taunton River @ Berkley Bridge	River				15.98	7.38	720.00	7.24	46.00	33.80	3860.0	1280	50		
10/05/11	8:45 AM	Blackstone River @ Slater Dam	River				19.29	7.74	613.00	9.08	22.80	44.80	3260.0	995	8		
10/05/11	8:45 AM	Blackstone River @ Slater Dam	River				19.29	7.74	616.00	9.51	17.90	44.10	3020.0	1020	10		
10/05/01	2:40 PM	Pawtuxet River @ Broad Street	River				18.98	7.48	718.00	11.20	38.70	16.60	3090.0	1040	10		
10/05/11	10:30 AM	Woonasquatucket River @ Manton Ave.	River				17.98	7.68	384.00	2.76	22.00	7.11	2490.0	684	12		
10/05/11	1:40 PM	Woonasquatucket River @ Valley Street	River				17.89	7.48	430.00	3.18	7.40	9.32	2440.0	778	8		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/05/11	9:55 AM	Moshassuck River @ Higginson Ave.	River				17.69	7.28	223.00	5.18	27.10	6.98	3140.0	552	10		
10/05/11	12:45 PM	Moshassuck River @ Mill St.	River				18.28	7.48	388.00	6.51	52.00	7.08	3520.0	708	8		
10/05/11	12:57 PM	Ten Mile River at Omega Pond	River						1220.00	8.74	57.80	28.60	2820.0	1630	12		
10/05/11	12:57 PM	Ten Mile River at Omega Pond	River						1200.00	7.96	57.80	27.70	2910.0	1600	8		
10/19/11	1:40 PM	Ten Mile @ Outlet of Omega Pond	River				15.20	7.25	2070.00	13.00	70.80	24.00	3530.0	2430	6		
10/19/11	1:40 PM	Ten Mile @ Outlet of Omega Pond	River				15.20	7.25	2030.00	15.10	70.70	23.10	3390.0	2390	12		
10/19/11	9:00 AM	Taunton River @ Berkley Bridge	River				14.47	6.88	547.00	4.70	13.90	35.20	2140.0	1070	6		
10/19/11	1:00 PM	Runnins River @ River Road	River				13.68	6.86	378.00	4.81	53.70	12.50	3980.0	902	<2.0		
10/19/11	10:35 AM	Coles River @ Milford Rd	River				14.78	6.80	73.60	<1.5	15.90	27.40	994.0	856	20		
10/19/11	10:15 AM	Lees River @ Rte. 6	River				16.12	7.78	70.20	4.22	11.20	17.60	1620.0	294	44		
10/19/11	11:20 AM	Palmer River at Route 6 in Rehoboth	River				14.50	6.80	123.00	11.60	135.00	25.60	3210.0	708	6		
10/19/11	11:00 AM	Warren Reservoir/Kickemuit River	River				14.29	6.75	245.00	8.31	64.30	15.00	2180.0	954	<2.0		
10/19/11	12:10 PM	Blackstone River @ Stateline	River				13.84	7.09	476.00	11.60	35.00	28.90	2980.0	785	<2.0		
10/19/11	11:00 PM	Blackstone River @ Slater Dam	River				14.32	7.30	477.00	6.15	36.50	16.00	3180.0	782	12		
10/19/11	11:00 AM	Blackstone River @ Slater Dam	River				14.32	7.30	474.00	6.47	40.30	15.80	3030.0	768	8		
10/19/11	8:35 AM	Pawuxet River @ Broad Street	River				15.03	6.94	759.00	13.30	87.80	16.50	3460.0	1120	4		
10/19/11	9:50 AM	Woonasquatucket River @ Manton Ave.	River				15.10	7.24	258.00	2.44	28.20	5.76	2250.0	641	2		
10/19/11	10:10 AM	Woonasquatucket River @ Valley Street	River				15.07	7.22	430.00	3.34	13.10	7.97	2460.0	707	4		
10/19/11	1:35 PM	Moshassuck River @ Higginson	River				14.64	7.17	267.00	6.35	36.30	8.60	3390.0	607	2		
10/19/11	10:30 AM	Moshassuck River @ Mill St.	River				14.61	7.12	475.00	12.90	161.00	30.70	3110.0	876	10		
11/02/11	9:56 AM	Blackstone River @ Bikepath Rt. 116	River				6.44	7.22	418.00	11.20	75.40	25.10	2530.0	701	2		
11/02/11	8:40 AM	Blackstone River @ Slater Dam	River				6.48	7.11	456.00	9.60	84.10	23.70	2100.0	756	<2.0		
11/02/11	8:40 AM	Blackstone River @ Slater Dam	River				6.48	7.12	456.00	10.10	84.30	23.20	2770.0	759	2		
11/02/11	3:25 PM	Pawtuxet River @ Broad Street	River				10.33	7.07	587.00	8.76	134.00	9.90	2500.0	933	2		
11/02/11	2:05 PM	Woonasquatucket River @ Manton Ave.	River				8.64	7.24	346.00	1.72	21.80	<5.00	1930.0	586	6		
11/02/11	2:25 PM	Woonasquatucket River @ Valley Street	River				8.61	7.31	389.00	2.23	19.40	<5.0	2220.0	625	2		
11/02/11	11:50 AM	Moshassuck River @ Higginson	River				6.85	7.37	382.00	3.13	18.20	6.53	3520.0	605	<2.0		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
11/02/11	2:55 PM	Moshassuck River @ Mill St.	River				8.34	7.25	497.00	4.91	61.90	5.15	3790.0	756	2		
11/16/11	2:30 PM	Ten Mile @ Outlet of Omega Pond	River				11.41	7.32	1470.00	4.94	24.00	18.20	3210.0	1830	8		
11/16/11	1:15 PM	Taunton River @ Berkley Bridge	River				11.15	7.64	542.00	5.83	86.10	25.40	2490.0	998	8		
11/16/11	1:15 PM	Taunton River @ Berkley Bridge	River				11.15	7.64	537.00	5.90	84.00	23.40	2470.0	960	4		
11/16/11	8:15 AM	Runnins River @ River Road	River				11.97	6.95	490.00	3.72	18.90	9.94	4100.0	856	10		
11/16/11	10:00 AM	Coles River @ Milford Rd	River				11.71	6.93	165.00	2.04	16.60	19.50	1500.0	721	<2.0		
11/16/11	10:30 AM	Lees River @ Rte. 6	River				12.41	7.53	299.00	7.53	102.00	27.30	2060.0	611	148		
11/16/11	8:35 AM	Palmer River at Route 6 in Rehoboth	River				11.60	6.82	231.00	2.99	31.80	12.90	1950.0	701	20		
11/16/11	9:30 AM	Warren Reservoir/Kickemuit River	River				12.69	6.92	379.00	6.62	52.40	12.70	1990.0	954	4		
11/16/11	9:25 AM	Blackstone River @ Stateline	River				10.81	7.40	593.00	9.34	31.40	29.00	2630.0	992	6		
11/16/11	10:25 AM	Blackstone River @ Rt. 116	River				11.07	7.51	587.00	13.80	54.80	20.40	3120.0	872	<2.0		
11/16/11	8:15 AM	Blackstone River @ Slater Dam	River				11.24	7.81	617.00	8.21	38.50	12.70	3020.0	857	<2.0		
11/16/11	11:05 AM	Pawtuxet River	River				12.10	7.26	801.00	8.81	60.90	24.10	3080.0	1090	4		
11/16/11	11:05 AM	Pawtuxet River	River				12.10	7.26	808.00	9.34	62.00	23.20	3060.0	1080	10		
11/16/11	2:00 PM	Moshassuck River @ Mill Street Bridge	River				12.15	7.17	498.00	5.97	64.80	5.44	3750.0	738	<2.0		
11/16/11	1:30 PM	Woonasquatucket @ Valley Street	River				11.53	7.20	450.00	2.70	16.10	<5.00	2420.0	723	<2.0		
11/16/11	1:15 PM	Woonasquatucket @ Manton Ave	River				11.21	7.31	405.00	2.31	16.60	<5.00	2210.0	803	<2.0		
12/07/11	10:20 AM	Blackstone River @ Bikepath Rt. 116	River						626.00	7.96	38.60	18.20	3040.0	839	4		
12/07/11	9:50 AM	Blackstone River @ Slater Dam	River						666.00	9.03	43.70	12.20	2880.0	903	10		
12/07/11	3:00 PM	Pawtuxet River @ Broad Street	River				11.00	7.30	917.00	21.00	69.00	22.10	2840.0	1260	2		
12/07/11	3:00 PM	Pawtuxet River @ Broad Street	River				11.00	7.30	939.00	21.10	69.20	21.70	2850.0	1230	4		
12/07/11	1:40 PM	Moshassuck River @ Mill St.	River				11.34	7.26	513.00	15.40	157.00	13.50	2450.0	916	6		
12/07/11	10:45 AM	Moshassuck River @ Higginson	River						443.00	5.28	32.80	6.21	2990.0	625	2		
12/07/11	1:20 PM	Woonasquatucket River @ Valley Street	River				10.50	7.40	528.00	4.20	30.10	5.16	2220.0	760	8		
12/07/11	12:50 PM	Woonasquatucket River @ Manton Ave.	River				10.08	7.45	495.00	3.00	25.30	<5.00	2340.0	704	<2.0		
12/21/11	8:25 AM	Blackstone River @ Stateline	River				3.18	7.73	667.00	11.20	86.80	34.10	3350.0	937	2		
12/21/11	9:45 AM	Blackstone River @ Slater Dam	River				3.72	7.69	705.00	9.23	91.90	19.30	3440.0	983	<2		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/21/11	1:40 PM	Pawtuxet River @ Broad Street	River				5.36	7.76	1100.00	4.72	56.70	14.00	3150.0	1380	<2		
12/21/11	10:00 AM	Moshassuck River @ Higginson	River				4.50	7.68	546.00	4.52	37.50	5.85	3240.0	756	8		
12/21/11	10:25 AM	Moshassuck River @ Mill St.	River				4.87	7.46	693.00	6.11	84.30	<5.00	3680.0	968	2		
12/21/11	12:45 PM	Woonasquatucket River @ Manton Ave.	River				5.25	7.42	539.00	2.70	26.10	<5.00	2430.0	853	4		
12/21/11	1:05 PM	Woonasquatucket River @ Valley Street	River				4.44	7.28	591.00	2.76	23.00	<5.00	2610.0	786	<2		
12/21/11	1:05 PM	Woonasquatucket River @ Valley Street	River				4.44	7.28	584.00	3.29	23.30	<5.00	2560.0	783	<2		
12/21/11	2:00 PM	Ten Mile @ Outlet of Omega Pond	River				3.15	7.35	1500.00	8.17	66.50	22.80	3560.0	1800	4		
12/21/11	2:00 PM	Ten Mile @ Outlet of Omega Pond	River				3.15	7.38	1470.00	7.68	68.30	23.60	3620.0	1750	10		
12/21/11	10:45 AM	Taunton River @ Berkley Bridge	River				3.15	7.75	886.00	10.20	52.60	35.20	2790.0	1250	12		
12/21/11	1:15 PM	Coles River @ Milford Rd	River				3.40	7.40	484.00	3.77	40.10	19.30	1510.0	905	<2		
12/21/11	8:45 AM	Palmer River at Route 6 in Rehoboth	River				2.47	7.37	540.00	4.28	52.80	11.90	3200.0	848	2		
12/21/11	8:20 AM	Runnins River @ River Road	River				2.35	6.80	1020.00	8.97	70.70	8.16	4750.0	1470	2		
12/21/11	9:15 AM	Warren Reservoir/Kickemuit River	River				2.82	7.98	824.00	13.10	148.00	13.20	3190.0	1370	12		
12/21/11	3:10 PM	Ten Mile @ Outlet of Omega Pond	River				5.42	7.30	1850.00	7.03	46.40	21.90	3750.0	2080	8		
09/01/10	2:58 PM	Pawtuxet @ Terminal Falls	RIVER	surface			24.79	7.14	1810.00	15.70	91.90	142.00	2060.0	1970	24		
09/01/10	11:07 AM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			25.37	9.94	821.00	45.30	<7	<5.0	2290.0	1140	58		
09/01/10	1:51 PM	Woonasquatucket @ Manton Ave	RIVER	surface			24.68	7.74	556.00	3.18	9.05	<5.00	1460.0	931	114		
09/01/10	2:12 PM	Woonasquatucket @ Valley St	RIVER	surface			25.02	7.73	688.00	3.35	7.00	<5.00	1340.0	850	226		
09/01/10	1:13 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.0	<20	<100			
09/14/10	10:30 AM	Bullocks Reach Buoy	BAY CHL	surface CHL												11.702	2.693
09/14/10	10:45 AM	Bullocks Reach Buoy	BAY CHL	surface CHL												13.493	3.357
09/15/10	1:05 PM	Phillipsdale Landing	BAY	0.5					535.00	14.20	<7.00	130.00	1120.0	815	142		
09/15/10	1:05 PM	Phillipsdale Landing	BAY	0.5					576.00	16.30	<7.00	134.00	1100.0	839	138		
09/15/10	8:56 AM	Conimicut Point	BAY	0.8		27.32	20.01	8.04	110.00	18.60	134.00	63.90	1530.0	647	218		
09/15/10	10:25 AM	Edgewood Yacht Club	BAY	0.8		27.32	20.01	8.04	151.00	24.20	154.00	64.20	1620.0	524	220		
09/15/10	10:25 AM	Edgewood Yacht Club	BAY	0.8		26.85	20.36	7.96	135.00	25.70	155.00	66.30	1620.0	567	222		
09/15/10	9:47 AM	India Point Park	BAY	0.8		24.87	20.32	8.03	167.00	18.10	102.00	93.30	1330.0	560	214		

Table 30: River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/15/10	10:06 AM	Pomham Rocks	BAY	0.8		26.25	20.29	7.96	126.00	23.20	190.00	90.80	1540.0	612	226		
09/15/10	9:14 AM	Bullocks Reach Buoy	BAY	0.8		27.26	20.37	8.00	120.00	23.00	156.00	69.50	1570.0	566	244		
09/15/10	10:15 AM	Nutrient Blank	BAY						<6.0	<1.5	<7.00	<5.00	<20	<100			
09/15/10	8:56 AM	Conimicut Point	BAY CHL	surface CHL												17.817	2.772
09/15/10	10:25 AM	Edgewood Yacht Club	BAY CHL	surface CHL												14.734	2.03
09/15/10	9:47 AM	India Point Park	BAY CHL	surface CHL												21.417	2.379
09/15/10	1:05 PM	Phillipsdale Landing	BAY CHL	surface CHL												57.481	2.157
09/15/10	1:05 PM	Phillipsdale Landing	BAY CHL	surface CHL												59.662	7.52
09/15/10	10:06 AM	Pomham Rocks	BAY CHL	surface CHL												14.235	2.013
09/15/10	9:14 AM	Bullocks Reach Buoy	BAY CHL	surface CHL												17.783	2.702
09/15/10	10:25 AM	Edgewood Yacht Club	BAY CHL	surface CHL												15.099	2.521
09/15/10	9:20 AM	Blackstone River at Bikepath bridge at Rt. 116	RIVER	surface			18.75	7.91	1460.00	5.50	9.14	39.10	1290.0	1770	4		
09/15/10	8:45 AM	Blackstone River at Slater Dam	RIVER	surface			18.30	7.73	1190.00	5.57	29.60	35.90	1430.0	1510	10		
09/15/10	10:00 AM	Blackstone River at Stateline	RIVER	surface			17.23	7.69	2060.00	8.41	<7	105.00	1340.0	2560	12		
09/15/10	10:00 AM	Blackstone River at Stateline	RIVER	surface			17.23	7.69	1980.00	8.05	<7	104.00	1390.0	2470	10		
09/15/10	12:30 PM	Coles River @ Milford Rd, Swansea	RIVER	surface			18.27	7.05	147.00	3.62	31.60	13.60	373.0	622	2		
09/15/10	1:10 PM	Lee's River @ Rt. 6, Swansea	RIVER	surface			20.37	7.76	46.90	3.09	<7.00	24.40	1110.0	358	238		
09/15/10	1:20 PM	Moshassuck River @ Higginson Ave	RIVER	surface			16.96	7.60	210.00	2.76	26.40	8.76	2870.0	426	4		
09/15/10	3:00 PM	Moshassuck River @ Mill St	RIVER	surface			16.89	7.46	636.00	16.40	85.80	6.06	4700.0	977	10		
09/15/10	1:40 PM	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	Pawtuxet @ Terminal Falls	RIVER	surface			19.26	6.75	1500.00	16.70	53.30	64.40	1600.0	1990	32		
09/15/10	11:20 AM	Runnins @ River Road on RI-MA Border	RIVER	surface			19.12	6.62	542.00	4.65	16.80	<5.00	1950.0	801	16		
09/15/10	10:05 AM	Taunton River @ Berkley Bridge	RIVER	surface					1120.00	14.10	33.20	95.60	2780.0	1490	18		
09/15/10	2:19 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			19.79	9.57	588.00	30.50	<7	<5.00	2430.0	1090	22		
09/15/10	2:19 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			19.79	9.57	559.00	28.10	<7	<5.00	2380.0	1030	18		
09/15/10	12:00 PM	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	Woonasquatucket @ Manton Ave	RIVER	surface			18.97	7.48	696.00	4.45	26.90	<5.00	966.0	945	10		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
09/15/10	2:30 PM	Woonasquatucket @ Valley St	RIVER	surface			17.73	7.51	780.00	2.89	9.15	<5.00	1570.0	941	8		
09/15/10	12:40 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			
09/15/10	3:35 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			
09/29/10	10:04 AM	Bullocks Reach Buoy	BAY	0.5		27.28	20.75	8.19	64.90	11.20	164.00	55.60	1290.0	516	286		
09/29/10	9:30 AM	Phillipsdale Landing	BAY	0.6		19.00	21.00		777.00	22.30	226.00	211.00	1580.0	1410	252		
09/29/10	1:00 PM	Edgewood Yacht Club	BAY	0.6		27.99	21.21	8.14	110.00	18.80	196.00	69.30	1490.0	599	342		
09/29/10	1:34 PM	Pomham Rocks	BAY	0.6		27.99	21.29	8.12	124.00	17.00	217.00	70.80	1430.0	798	314		
09/29/10	2:07 PM	India Point Park	BAY	0.6		26.48	23.32	8.00	168.00	27.20	278.00	109.00	1420.0	847	250		
09/29/10	1:00 PM	Edgewood Yacht Club	BAY	0.7		27.99	21.21	8.14	108.00	18.90	197.00	69.40	1490.0	589	302		
09/29/10	10:44 AM	Conimicut Point	BAY	0.7		29.01	20.67	8.19	55.20	8.81	121.00	41.50	1240.0	450	354		
09/29/10	9:30 AM	Phillipsdale Landing	BAY	2.5		24.84	21.00		265.00	21.90	298.00	170.00	1470.0	990	360		
09/29/10	1:42 PM	Pomham Rocks	BAY	3.6		28.06	20.84		125.00	16.60	212.00	70.90	1150.0	642	294		
09/29/10	1:05 PM	Edgewood Yacht Club	BAY	5.3		28.41	20.60		115.00	22.30	234.00	76.40	1620.0	660	310		
09/29/10	1:05 PM	Edgewood Yacht Club	BAY	5.3		28.41	20.60		122.00	23.00	235.00	79.30	69.0	652	380		
09/29/10	2:12 PM	India Point Park	BAY	7.1		27.95	20.72		117.00	29.50	297.00	97.20	1410.0	788	320		
09/29/10	10:48 AM	Conimicut Point	BAY	9.4		30.12	19.91		26.50	3.53	105.00	39.30	1190.0	389	456		
09/29/10	10:20 AM	Bullocks Reach Buoy	BAY	7.6					36.40	5.48	116.00	38.50	1220.0	418	468		
09/29/10	2:20 PM	Nutrient Blank	BAY						22.40	<1.5	<7.00	<5.00	<20	<100			
09/29/10	10:04 AM	Bullocks Reach Buoy	BAY CHL	0.50		27.28										6.236	2.034
09/29/10	9:30 AM	Phillipsdale Landing	BAY CHL	0.56		19.00										39.795	5.054
09/29/10	1:34 PM	Pomham Rocks	BAY CHL	0.60		27.99										7.897	1.634
09/29/10	1:00 PM	Edgewood Yacht Club	BAY CHL	0.66		27.99										10.828	2.013
09/29/10	1:00 PM	Edgewood Yacht Club	BAY CHL	0.66		27.99										10.709	2.428
09/29/10	10:44 AM	Conimicut Point	BAY CHL	0.68		29.01										11.357	2.304
09/29/10	10:55 AM	Blackstone River at Slater Dam	RIVER	surface			20.85	8.02	1620.00	10.30	44.00	43.30	1420.0	2240	86		
09/29/10	10:55 AM	Blackstone River at Slater Dam	RIVER	surface			20.85	8.02	1660.00	10.20	43.60	42.70	1570.0	2240	72		
09/29/10	2:35 PM	Moshassuck River @ Higginson Ave	RIVER	surface			20.58	7.35	182.00	5.28	22.00	7.92	2200.0	511	26		

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09/29/10	3:10 PM	Moshassuck River @ Mill St	RIVER	surface			20.42	7.24	429.00	13.80	74.20	9.20	3350.0	779	52		
09/29/10	12:45 PM	Pawtuxet @ Terminal Falls	RIVER	surface			21.05	7.52	109.00	22.20	256.00	87.10	1560.0	668	302		
09/29/10	8:45 AM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			20.82	7.77	1350.00	61.50	250.00	8.59	1730.0	2340	128		
09/29/10	1:25 PM	Woonasquatucket @ Manton Ave	RIVER	surface			21.41	7.51	824.00	8.20	39.70	<5.00	1080.0	1360	62		
09/29/10	2:00 PM	Woonasquatucket @ Valley St	RIVER	surface			21.10	7.60	821.00	5.82	16.30	<5.00	1370.0	1280	92		
09/29/10	3:20 PM	Nutrient Blank							<6.0	<1.5	<7.00	<5.00	<20	<100			
10/13/10	9:55 AM	Conimicut Point	BAY	0.5		27.91	16.45	7.93	181.00	19.20	212.00	66.90	1350.0	610	232		
10/13/10	12:50 PM	Edgewood Yacht Club	BAY	0.5		26.88	17.18	7.86	249.00	33.40	368.00	88.30	1480.0	904	198		
10/13/10	12:50 PM	Edgewood Yacht Club	BAY	0.5		26.88	17.18	7.86	242.00	32.60	370.00	87.40	1470.0	911	202		
10/13/10	1:45 PM	India Point Park	BAY	0.5		26.30	17.85	7.89	214.00	16.40	156.00	70.90	1420.0	716	210		
10/13/10	1:15 PM	Pomham Rocks	BAY	0.5		27.40	17.12	7.89	197.00	19.00	203.00	72.60	1390.0	658	220		
10/13/10	10:20 AM	Bullocks Reach Buoy	BAY	0.5		28.24	16.38	7.92	167.00	18.60	205.00	65.30	1350.0	614	270		
10/13/10	10:20 AM	Bullocks Reach Buoy	BAY	0.5		28.24	16.38	7.92	183.00	18.80	203.00	65.40	1340.0	728	232		
10/13/10	1:00 PM	Phillipsdale Landing	BAY	0.5		17.59	16.25	7.07	770.00	16.70	72.10	170.00	1910.0	1100	228		
10/13/10	8:27 AM	Nutrient Blank	BAY						<6.0	<1.5	<7.00	<5.00	<20	<100			
10/13/10	9:55 AM	Conimicut Point	BAY CHL	0.5		27.91										4.229	1.198
10/13/10	12:50 PM	Edgewood Yacht Club	BAY CHL	0.5		26.88										0.887	0.728
10/13/10	12:50 PM	Edgewood Yacht Club	BAY CHL	0.5		26.88										1.091	0.772
10/13/10	1:45 PM	India Point Park	BAY CHL	0.5		26.30										18.845	1.161
10/13/10	1:15 PM	Pomham Rocks	BAY CHL	0.5		27.48										2.915	1.187
10/13/10	10:20 AM	Bullocks Reach Buoy	BAY CHL	0.5		28.24										2.367	1.036
10/13/10	1:00 PM	Phillipsdale Landing	BAY CHL	0.5		17.59										2.265	1.587
10/13/10	10:05 AM	Blackstone River at Slater Dam	RIVER	surface			13.95	7.76	820.00	8.86	51.90	23.40	2550.0	1090	10		
10/13/10	10:05 AM	Blackstone River at Slater Dam	RIVER	surface			13.95	7.76	837.00	8.84	52.00	24.00	2430.0	1120	8		
10/13/10	8:50 AM	Blackstone River at Stateline	RIVER	surface			13.37	7.91	1190.00	19.50	43.30	29.80	2810.0	1480	10		
10/13/10	11:15 AM	Coles River @ Milford Rd, Swansea	RIVER	surface			14.24	8.59	70.40	2.86	26.60	10.30	903.0	448	4		
10/13/10	10:55 AM	Lee's River @ Rt. 6, Swansea	RIVER	surface			15.39	7.67	76.60	1.88	12.10	32.90	884.0	319	6		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/13/10	9:40 AM	Moshassuck River @ Higginson Ave	RIVER	surface			13.90	7.95	139.00	3.60	24.80	8.28	2800.0	368	10		
10/13/10	3:10 PM	Moshassuck River @ Mill St	RIVER	surface			13.76	7.66	514.00	9.52	87.30	24.20	4420.0	875	10		
10/13/10	12:15 PM	Palmer River @ Rte. 6 Swansea	RIVER	surface			15.35	7.04	99.40	8.06	61.70	27.10	1520.0	459	128		
10/13/10	10:40 AM	Pawtuxet @ Terminal Falls	RIVER	surface			15.31	7.33	1200.00	49.90	121.00	141.00	3240.0	1740	14		
10/13/10	12:35 PM	Runnins @ River Road on RI-MA Border	RIVER	surface			11.99	7.79	495.00	3.37	17.50	<5.00	4980.0	781	12		
10/13/10	10:00 AM	Taunton River @ Berkley Bridge	RIVER	surface			13.80	7.73	645.00	8.04	75.80	45.00	3420.0	1010	4		
10/13/10	1:15 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			15.41	7.62	2070.00	26.00	58.60	10.30	1050.0	2460	30		
10/13/10	1:15 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			15.41	7.62	1990.00	23.50	59.10	9.64	1030.0	2530	30		
10/13/10	11:45 AM	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	Woonasquatucket @ Manton Ave	RIVER	surface			15.37	8.58	397.00	3.98	41.70	5.79	1740.0	627	12		
10/13/10	2:40 PM	Woonasquatucket @ Valley St	RIVER	surface			14.75	7.92	524.00	3.32	19.80	<5.00	1940.0	730	8		
10/13/10	8:55 AM	Nutrient Blank	RIVER						<6	<1.5	<7.00	<5.00	<20	<100			
10/13/10	11:55 AM	Nutrient Blank	RIVER						16.60	<1.5	<7.00	<5.00	<20	<100			
10/27/10	1:00 PM	Phillipsdale Landing	BAY	0.5			16.50	7.57	998.00	21.40	150.00	132.00	2000.0	1670	20		
10/27/10	2:01 PM	Edgewood Yacht Club	BAY	0.6		25.46	16.12		286.00	22.40	317.00	72.60	1300.0	729	168		
10/27/10	2:11 PM	Edgewood Yacht Club	BAY	0.6		25.46	16.12		284.00	20.60	320.00	73.00	1300.0	725	162		
10/27/10	11:10 AM	Bullocks Reach Buoy	BAY	0.6		28.41	14.82		156.00	12.50	140.00	36.10	912.0	408	176		
10/27/10	1:25 PM	India Point Park	BAY	0.7		21.70	16.74		467.00	20.90	278.00	95.00	1590.0	966	226		
10/27/10	11:39 AM	Pomham Rocks	BAY	0.7		25.86	15.88		265.00	19.20	333.00	76.80	1280.0	834	222		
10/27/10	1:02 PM	Phillipsdale Landing	BAY	1.8			16.00	7.54	531.00	23.30	254.00	103.00	1670.0	1030	140		
10/27/10	11:47 AM	Pomham Rocks	BAY	3.7		27.01	15.16		274.00	19.50	329.00	76.90	1290.0	810	214		
10/27/10	2:10 PM	Edgewood Yacht Club	BAY	5.1		28.81	15.04		251.00	20.30	308.00	60.00	1320.0	744	168		
10/27/10	2:10 PM	Edgewood Yacht Club	BAY	5.1		28.81	15.04		251.00	20.50	301.00	66.60	1320.0	770	182		
10/27/10	1:30 PM	India Point Park	BAY	5.5		23.46	15.89		197.00	14.90	257.00	70.20	1250.0	645	148		
10/27/10	11:16 AM	Bullocks Reach Buoy	BAY	6.8		28.73	14.78		141.00	11.60	128.00	35.70	880.0	418	190		
10/27/10	10:01 AM	Nutrient Blank	BAY						<6.0	<1.5	<7.00	<5.00	<20	<100			
10/27/10	1:00 PM	Phillipsdale Landing	BAY CHL	0.5												19.654	3.664

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
10/27/10	2:01 PM	Edgewood Yacht Club	BAY CHL	0.6		25.46										3.892	1.343
10/27/10	2:01 PM	Edgewood Yacht Club	BAY CHL	0.6		25.46										4.294	1.408
10/27/10	11:10 AM	Bullocks Reach Buoy	BAY CHL	0.6		28.41										4.663	1.08
10/27/10	1:25 PM	India Point Park	BAY CHL	0.7		21.70										5.615	0.551
10/27/10	11:39 AM	Pomham Rocks	BAY CHL	3.7		25.86										6.772	1.396
10/27/10	10:50 AM	Blackstone River at Slater Dam	RIVER	surface			13.99	7.31	987.00	12.60	113.00	37.00	2020.0	1330	8		
10/27/10	10:50 AM	Blackstone River at Slater Dam	RIVER	surface			13.99	7.31	957.00	13.00	110.00	37.40	2060.0	1350	16		
10/27/10	10:20 AM	Moshassuck River @ Higginson Ave	RIVER	surface			16.39	7.08	243.00	4.31	31.70	11.60	3000.0	518	<2.0		
10/27/10	9:20 AM	Moshassuck River @ Mill St	RIVER	surface			16.29	7.17	477.00	11.70	118.00	12.40	3220.0	968	22		
10/27/10	2:45 PM	Pawtuxet @ Terminal Falls	RIVER	surface			15.79	7.03	1070.00	42.60	280.00	41.70	2540.0	1950	4		
10/27/10	1:45 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			14.80	7.40	2140.00	18.80	123.00	24.20	2760.0	2010	4		
10/27/10	8:25 AM	Woonasquatucket @ Manton Ave	RIVER	surface			15.90	7.17	406.00	2.55	19.10	5.12	1230.0	663	2		
10/27/10	8:50 AM	Woonasquatucket @ Valley St	RIVER	surface			15.80	7.44	462.00	2.71	7.89	5.21	1460.0	795	2		
10/27/10	2:10 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			
11/10/10	8:40 AM	Phillipsdale Landing	BAY	surface					539.00	24.30	185.00	56.80	1520.0	916	14		
11/10/10	2:05 PM	Nutrient Blank	BAY						<6.0	<1.5	<7.00	<5.00	<20	<100			
11/10/10	8:40 AM	Phillipsdale Landing	BAY CHL	0.5		16.29										2.082	2.11
11/10/10	9:30 AM	Blackstone River at Slater Dam	RIVER	surface			8.41	8.00	713.00	39.80	94.40	22.50	2450.0	1060	10		
11/10/10	8:40 AM	Blackstone River at Stateline	RIVER	surface			8.58	7.96	734.00	74.40	220.00	20.50	2120.0	1210	8		
11/10/10	11:00 AM	Coles River @ Milford Rd, Swansea	RIVER	surface			8.02	7.83	46.30	2.01	17.20	9.28	5310.0	486	<2		
11/10/10	1:10 PM	Lee's River @ Rt. 6, Swansea	RIVER	surface			9.10	7.60	131.00	<1.5	56.80	23.90	1370.0	398	20		
11/10/10	9:40 AM	Moshassuck River @ Higginson Ave	RIVER	surface			8.36	7.99	128.00	3.13	9.70	6.13	3500.0	338	8		
11/10/10	10:05 AM	Moshassuck River @ Mill St	RIVER	surface			9.50	8.10	296.00	3.81	38.90	6.08	3500.0	524	6		
11/10/10	10:05 AM	Moshassuck River @ Mill St	RIVER	surface			9.50	8.10	288.00	3.69	37.40	6.02	3400.0	545	6		
11/10/10	10:05 AM	Palmer River @ Rte. 6 Swansea	RIVER	surface			8.32	7.14	148.00	4.62	54.00	16.80	3420.0	513	20		
11/10/10	1:30 PM	Pawtuxet @ Terminal Falls	RIVER	surface			8.36	7.99	1100.00	18.60	285.00	26.40	3130.0	1680	8		
11/10/10	9:45 AM	Runnins @ River Road on RI-MA Border	RIVER	surface			8.68	7.97	287.00	2.06	<7.00	10.70	4830.0	*594*	2		

Table 30: River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
11/10/10	1:50 PM	Taunton River @ Berkley Bridge	RIVER	surface			8.84	7.60	485.00	6.60	214.00	44.80	3450.0	1020	12		
11/10/10	8:25 AM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			8.06	7.64	2650.00	10.70	46.90	12.70	3120.0	3020	10		
11/10/10	8:25 AM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			8.06	7.64	2580.00	9.83	49.20	12.20	3040.0	3100	8		
11/10/10	10:34 AM	Warren Reservoir/Kickemuit River	RIVER	surface			8.09	7.92	231.00	8.66	74.60	9.07	3930.0	707	4		
11/10/10	12:55 PM	Woonasquatucket @ Manton Ave	RIVER	surface			7.98	7.99	561.00	2.46	<7.00	<5.00	2080.0	782	6		
11/10/10	12:40 PM	Woonasquatucket @ Valley St	RIVER	surface			8.28	8.10	509.00	2.55	20.00	5.24	1920.0	742	<2		
11/10/10	10:15 AM	Nutrient Blank	RIVER						<6.	<1.5	<7.00	<5.00	<20	<100			
12/01/10	9:10 AM	Blackstone River at Slater Dam	RIVER	surface			5.56	8.17	1120.00	38.00	66.70	18.60	2590.0	1410	4		
12/01/10	9:10 AM	Blackstone River at Slater Dam	RIVER	surface			5.56	8.17	1100.00	38.40	67.40	16.80	2520.0	1420	4		
12/01/10	9:53 AM	Blackstone River at Stateline	RIVER	surface			5.31	7.94	1290.00	48.90	93.80	15.20	2470.0	1700	6		
12/01/10	1:23 PM	Moshassuck River @ Higginson Ave	RIVER	surface			6.88	7.60	334.00	5.49	25.80	6.66	3520.0	514	4		
12/01/10	9:40 AM	Moshassuck River @ Mill St	RIVER	surface			7.67	7.50	484.00	5.50	77.60	<5.00	4330.0	688	4		
12/01/10	9:40 AM	Moshassuck River @ Mill St	RIVER	surface			7.67	7.50	486.00	5.83	77.50	<5.00	4210.0	682	4		
12/01/10	9:15 AM	Pawtuxet @ Terminal Falls	RIVER	surface			7.68	7.78	1820.00	32.60	328.00	33.00	3740.0	2430	<2		
12/01/10	8:55 AM	Taunton River @ Berkley Bridge	RIVER	surface			4.94	7.41	881.00	10.10	495.00	58.20	3650.0	1240	14		
12/01/10	8:35 AM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			5.01	8.26	2380.00	14.00	111.00	29.50	3500.0	2760	6		
12/01/10	12:50 PM	Woonasquatucket @ Manton Ave	RIVER	surface			6.42	7.83	324.00	2.79	7.54	<5.00	1170.0	515	4		
12/01/10	10:00 AM	Woonasquatucket @ Valley St	RIVER	surface			7.05	7.68	351.00	1.99	<7.0	<5.00	997.0	609	8		
12/01/10	1:25 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			
12/01/10	1:30 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.0	<5.0	<20	<100			
12/01/10	10:15 AM	Nutrient Blank	RIVER						21.10	1.82	<7.00	<5.00	<20	<100			
12/15/10	10:25 AM	Phillipsdale Landing	BAY	0.5		1.36	1.57	7.48	895.00	17.20	166.00	70.80	2140.0	1280	22		
12/15/10	10:25 AM	Phillipsdale Landing	BAY	2.1		2.59	1.89	7.33	886.00	17.30	163.00	69.40	2060.0	1270	24		
12/15/10	10:00 AM	Blackstone River at Slater Dam	RIVER	surface			2.15	7.87	532.00	15.80	109.00	14.30	1990.0	868	4		
12/15/10	10:00 AM	Blackstone River at Slater Dam	RIVER	surface			2.15	7.87	534.00	15.30	118.00	14.30	1810.0	883	10		
12/15/10	8:45 AM	Blackstone River at Stateline	RIVER	surface			1.26	7.35	489.00	16.60	115.00	13.70	2070.0	797	10		
12/15/10	10:19 AM	Coles River @ Milford Rd, Swansea	RIVER	surface			2.05	8.71	163.00	7.93	9.67	7.81	1630.0	569	4		

Table 30: River and Bay Nutrients Data 2011

River and Bay Nutrients Data 2011

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Depth (if exact depth was unknown indicated by surface/bottom)	Salinity (ppt)	Temp (°C)	pH	NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)
12/15/10	10:02 AM	Lee's River @ Rt. 6, Swansea	RIVER	surface			2.29	7.17	186.00	5.59	14.80	16.30	1660.0	421	18		
12/15/10	12:52 PM	Moshassuck River @ Higginson Ave	RIVER	surface			2.94	7.58	395.00	7.41	13.60	12.00	2210.0	653	10		
12/15/10	2:05 PM	Moshassuck River @ Mill St	RIVER	surface			2.43	7.41	447.00	7.00	56.90	7.44	2520.0	723	8		
12/15/10	11:19 AM	Palmer River @ Rte. 6 Swansea	RIVER	surface			1.07	8.18	156.00	4.30	19.70	15.90	839.0	582	10		
12/15/10	2:35 PM	Pawtuxet @ Terminal Falls	RIVER	surface			2.62	7.14	947.00	7.68	217.00	16.20	2310.0	1470	12		
12/15/10	11:35 AM	Runnins @ River Road on RI-MA Border	RIVER	surface			0.33	7.18	306.00	5.14	14.20	8.14	3410.0	723	6		
12/15/10	9:25 AM	Taunton River @ Berkley Bridge	RIVER	surface			3.00	8.97	460.00	10.60	24.80	20.10	1240.0	827	10		
12/15/10	12:49 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			2.98	7.72	2010.00	10.10	80.10	39.30	2700.0	2600	6		
12/15/10	12:49 PM	Ten Mile @ Outlet of Omega Pond	RIVER	surface			2.98	7.72	2040.00	13.60	70.00	41.20	2620.0	2560	16		
12/15/10	10:49 AM	Warren Reservoir/Kickemuit River	RIVER	surface			0.68	8.33	392.00	9.27	35.20	8.73	2400.0	870	10		
12/15/10	1:25 AM	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	Woonasquatucket @ Valley St	RIVER	surface			1.79	7.29	308.00	2.30	10.60	<5.00	1380.0	525	6		
12/15/10	8:45 AM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			
12/15/10	11:07 AM	Nutrient Blank	RIVER						8.08	<1.5	<7.00	<5.00	2700.0	<100			
12/16/10	10:25 AM	Phillipsdale Landing	BAY CHL	0.5		1.36										2.923	2.479
12/29/10	1:15 PM	Phillipsdale Landing	BAY	0.5		8.50	0.83		930.00	14.50	124.00	77.60	2700.0	1280	2		
12/29/10	1:30 PM	Phillipsdale Landing	BAY	1.6		24.61	2.55		903.00	15.00	126.00	77.70	2710.0	1290	6		
12/29/10	1:15 PM	Phillipsdale Landing	BAY CHL	0.5		8.53										0.493	1.093
12/29/10	1:15 PM	Phillipsdale Landing	BAY CHL	0.5		8.53										0.498	1.165
12/29/10	9:05 AM	Blackstone River at Slater Dam	RIVER	surface			0.07	8.22	908.00	19.20	160.00	39.30	2560.0	1310	<2.0		
12/29/10	9:05 AM	Blackstone River at Slater Dam	RIVER	surface			0.07	8.22	901.00	18.10	162.00	41.40	2700.0	1300	6		
12/29/10	8:20 AM	Moshassuck River @ Higginson Ave	RIVER	surface			1.74	8.41	603.00	5.40	49.60	6.19	3660.0	781	2		
12/29/10	1:45 PM	Moshassuck River @ Mill St	RIVER	surface			2.58	7.48	603.00	5.63	104.00	<5.00	3400.0	840	<2.0		
12/29/10	10:50 AM	Pawtuxet @ Terminal Falls	RIVER	surface			1.13	8.00	1210.00	16.60	313.00	38.50	2360.0	1800	10		
12/29/10	12:35 PM	Woonasquatucket @ Manton Ave	RIVER	surface			1.14	7.92	408.00	2.61	17.40	<5.00	1690.0	628	4		
12/29/10	1:00 PM	Woonasquatucket @ Valley St	RIVER	surface			1.23	7.76	458.00	2.02	14.30	<5.00	1700.0	696	<2.0		
12/29/10	1:55 PM	Nutrient Blank	RIVER						<6.0	<1.5	<7.00	<5.00	<20	<100			

Table 30: River and Bay Nutrients Data 2011

River Fecal Results 2011
(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-7C-Eagle Street*	S-10-Douglas Ave. Bridge	*S-10-B Veazie St. Bridge	*S-10-C Douglas Ave. Bridge at 1215 Douglas Ave	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
1/3/2011	430	150	150	230	230	96					930	430
1/4/2011					40	<30.	230			230	40	
1/10/2011	90	90	230	40	<30.	<30.					90	
1/11/2011					90	90	90			430	230	
1/18/2011	90	40	90	230	<30.	144					390	
1/19/2011					230	930	230			230	930	
1/24/2011	40	90	930	90	90	53					430	
1/25/2011						40	930			2300		
1/31/2011	40	90	40	230	40	90					230	
2/1/2011					90	40	90			150	90	
2/7/2011	90	230	230	430	150	197					430	
2/8/2011					430	150	150			750	930	
2/14/2011	40	90	230	<30.	40	52					430	
2/15/2011					430	230	90			40	430	
2/21/2011	<30.	40	40	90	40	96					90	
2/22/2011					40	40	70			40	150	
2/28/2011	40	4300	9300	9300	4300	9503					750	230
3/1/2011					7500	2300	40			230	2300	
3/7/2011	390	9300	15000	2300	4300	33226					930	230
3/8/2011					3900	15000	90			90	46000	
3/10/2011	<30.	15000	4300	46000	15000	24000					4300	
3/14/2011	40	9300	4300	24000	9300	26268					15000	140
3/15/2011					9300	1500	<30.			40	4300	
3/21/2011	15000	9300	9300	430	930	11811					230	230
3/22/2011					4300	9300	40			90	1200	
3/23/2011	40	40										
3/28/2011	<30.	<30.	40	150	<30.	35					40	40
3/29/2011					<30.	70	40			90	40	
4/4/2011	40	<30.	<30.	40	40	79					70	150
4/5/2011					90	90	430			230	930	
4/11/2011	<30.	90	40	70	<30.	53					210	40
4/12/2011					<30.	40	46000			2300	230	
4/18/2011	150	40	40	230	40	60					230	930
4/19/2011					40	90	150			430	150	
4/25/2011	<30.	40	90	150	90	116					430	210
4/26/2011					<30.	40	90			40	430	
5/2/2011	<30.	90	40	90	40	230					430	230
5/3/2011					40	90	230			430	930	
5/9/2011	110	90	230	150	230	96					930	230
5/10/2011					430	230	230	930	230	230	430	
5/16/2011	230	1500	1500	930	9300	4300					2300	3900

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Results 2011
(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-7C-Eagle Street*	S-10-Douglas Ave. Bridge	*S-10-B Veazie St. Bridge	*S-10-C Douglas Ave. Bridge at 1215 Douglas Ave	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
5/17/2011					750	4300	430	1500	930	4300	46000	
5/23/2011	430	90	430	430	230	632					230	230
5/24/2011					2300	2300	2300	2300	4300	2300	4300	
5/31/2011	230	930	230	930	230	314					2300	90
6/1/2011					4300	230	430	2300	4300	2300	2300	
6/6/2011	230	110	430	930	230	230					930	150
6/7/2011					230	430	2300	930	750	2300	930	
6/9/2011							2300			430		
6/13/2011	9300	9300	9300	2300	9300	3145					9300	930
6/14/2011					4300	930	4300	9300	2300	4300	2300	
6/20/2011	430	2300	230	1500	930	1360					1500	<30.
6/21/2011					2300	430	750	930	430	2300	230	
6/27/2011	230	230	430	2300	9300	3900					4300	750
6/28/2011					930	1200	930	4300	930	2300	2300	
6/30/2011			90	2300	430	632	2300	5679		4300	930	
7/5/2011	230	930	430	430	2100	930					230	40
7/6/2011					4300	930	4300	110000	2300	1500	930	
7/8/2011							46000	21735	46000	46000		
7/11/2011	430	4300	1500	4300	7500	1463	2300	2100	4300		2300	4300
7/12/2011					2300	1500				4300	4300	
7/18/2011	230	930	930	430	2300	2540					930	<30.
7/19/2011					9300	4300	4300	15000	4300	110000	110000	
7/25/2011	930	230	4300	110000	110000	4300					46000	40
7/26/2011					24000	750	750	4300	1500	4300	46000	
7/28/2011				9300	1500	930				15000	1500	
8/1/2011	1500	230	2300	2100	15000	632					930	<30.
8/2/2011					930	430	930	750	430	2300	430	230
8/4/2011	430		430	230	2300			1500		2300		
8/9/2011	430	9300	4300	9300	24000	2300					46000	210
8/10/2011					4300	15000	46000	9300	9300	9300	24000	
8/15/2011	4300	24000	110000	>240,000.	46000	>240,000.					24000	2300
8/16/2011					4300	4300	4300	24000	4300	4300	4300	
8/22/2011	930	4300	4300	2300	9300	3145					46000	1500

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Results 2011
(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-7C-Eagle Street*	S-10-Douglas Ave. Bridge	*S-10-B Veazie St. Bridge	*S-10-C Douglas Ave. Bridge at 1215 Douglas Ave	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
8/23/2011					4300	2300	1500	930	930	4300	2300	
8/30/2011	930	2100	2300	270	2300	1659					9300	2300
8/31/2011					430	430	2300	930	140	930	2300	
9/6/2011	46000	46000	46000	110000	24000	24000					>240,000.	46000
9/7/2011					46000	46000	9300	46000	24000	24000	46000	
9/12/2011	930	90	930	930	930	430					430	2300
9/13/2011					430	930	930	4300	430	930	430	
9/15/2011								568				4300
9/19/2011	430	230	230	9300	230	314					930	430
9/20/2011					9300	430	430	2300	430	930	930	
9/26/2011	930	930	930	930	2300	994					930	230
9/27/2011					2300	230	430	430	4300	930	2300	
10/3/2011	930	2300	750	930	2300	430					9300	230
10/4/2011					9300	4300	2300	4300	1500	2300	46000	
10/6/2011	2300	230			430						930	
10/11/2011	930	930	230	930	430	835					430	150
10/12/2011					2300	230	430	230	430	930	430	
10/17/2011	230	230		430	430	245					2300	2300
10/18/2011					930	90	230	230	230	750	150	
10/24/2011	40	90	90	40	90	96					230	90
10/25/2011					930	430	90	230	230	430	230	
10/31/2011	210	230	90	230	90	144					4300	430
11/1/2011					90	40	230	430	230	230	430	
11/7/2011	40	40	90	40	40	60					930	430
11/8/2011					40	<30.	230	90	40	430	90	
11/14/2011	40	40	40	40	90	40					430	230
11/15/2011					40	150	230	90	70	430	430	
11/21/2011	90	90	90	90	90	116					750	70
11/22/2011					40	40	110	40	40	930	90	
11/28/2011	40	40	40	40	40	60					<30.	150
11/29/2011					40	230	40	90	40	4300	90	
12/5/2011	40	<30.	70	<30.	30	35					430	40
12/6/2011					230	40	430	90	40	430	750	
12/12/2011	230	230	40	70	150	150					90	90
12/13/2011					40	430	150	90		230	150	
12/19/2011	<30.	40	40		40	<30.					90	<30.
12/20/2011					<30.	<30.	40	90		430	90	
12/27/2011	40	<30.	<30.	90	<30.	46					230	230
12/28/2011					230	40	40	430		430	230	

* Additional locations were added on the West River in 2011 to investigate the source of high fecal results

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Data 2011
(MPN/100 ML)

	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
1/3/2011				314				230	40	77
1/4/2011	40	90	230	131	230	230	230			
1/10/2011				186				90	150	40
1/11/2011	90	90	144	314	90	230	230			
1/18/2011				587				40	140	35
1/19/2011	90	90	950	1313	1500	930	750			
1/24/2011				186				40	40	96
1/25/2011	430	230	430	462	150	930	150			
1/31/2011				90				90	40	60
2/1/2011	40	230	314	144	750		930			
2/7/2011				314						52
2/8/2011	70	230	632	462	210	430	1500			
2/14/2011				930				930	90	52
2/15/2011	90	90	930	430	930	430	230			
2/21/2011				144				430	230	<30
2/22/2011	90	90	144	197	230	430	150			
2/28/2011				230				230	230	40
3/1/2011	90	230	587	314	230	930	230			
3/7/2011				568				230	230	60
3/8/2011	230	230	144	197	150	40	90			
3/14/2011				60				90	40	35
3/15/2011	40	40	60	186	90	40	40			
3/21/2011				40				40	40	35
3/22/2011	<30.	90	462	314	230	430	90			
3/28/2011				40				<30.	40	35
3/29/2011	40	40	40	60	<30.	90	90			
4/4/2011				90				40	40	35
4/5/2011	<30.	110	632	930	230	930	430			
4/11/2011				3005				<30.	<30.	<30
4/12/2011	70	90	116	430	40	430	930			
4/18/2011				314				90	40	90
4/19/2011	40	230	230	2300	430	230	210			
4/25/2011				1857				40	40	35
4/26/2011	<30.	430	230	314	230	430	230			
5/2/2011				1463				90	40	230
5/3/2011	90	230	314	314	930	930	230			
5/9/2011				1181				40	90	35
5/10/2011	430	430	314	462	230	230	430			
5/16/2011				3145				230	430	835
5/17/2011	40	390	18974	10607	21000	4300	15000			
5/23/2011				1463				90	90	144
5/24/2011	430		994	4625	2300	2300	2300			
5/31/2011				994				90	230	230
6/1/2011	230	230	430	3145	230	2300	2300			
6/6/2011				930				390	930	127
6/7/2011	40		220	1857	430	930	1500			
6/9/2011				2100			2100			
6/13/2011				2995				1500	930	4300
6/14/2011	750	2300	1857	3145	2300	4300	4300			
6/20/2011				2300				230	430	197
6/21/2011	150	930	1061	2300	4300	930	430			
6/27/2011				2000				2300	280	430
6/28/2011	90	930		1857	930	2300	2300			
6/30/2011				2300		2100	4300	90		
7/5/2011				1181				40	230	197
7/6/2011	230	230	930	632	230	2300	430			
7/11/2011				3735				230	430	144
7/12/2011	430	9300	2000	1463	2300	9300	2300			
7/18/2011				314				<30.	230	96
7/19/2011	230	2100	5874	6324	9300	21000	15000			
7/25/2011				20683				930	90	803
7/26/2011	430	9300	1796	71134	4300	15000	110000			
7/28/2011		430		568		750	930			

Table 32: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

River Fecal Data 2011
(MPN/100 ML)

	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
8/1/2011				4300				430	430	144
8/2/2011	40	430	462	2540	430	430	750	230	750	
8/4/2011				430						
8/9/2011				4300				2300	430	930
8/10/2011	430	9300	14940	14930	9300	9300	9300			
8/15/2011				110000				1500	4300	5679
8/16/2011	930	4300	14940	3145	4300	7500	4300			
8/22/2011				345				430	4300	7500
8/23/2011	1500	430	1857	2300	4300	930	1500			
8/30/2011				4625				930	930	568
8/31/2011	430	430	3145	994	2300	930	930			
9/6/2011				162481				90	4300	1463
9/7/2011	930	24000	14940	24000	46000	46000	46000			
9/12/2011				2300				90	230	1463
9/13/2011	<30.	1500	3145	2540	9300	4300	4300			
9/15/2011	430	2300	4300	2300	430	930	390			
9/19/2011				4625				40	430	90
9/20/2011	40	430	1463	14940	2300	2300	2300			
9/26/2011				2300				230	230	314
9/27/2011	<30.	430	462	462	930	930	2300			
10/3/2011				20683				230	430	632
10/4/2011	430	4300	430	14940	9300	9300	24000			
10/6/2011			4300	750		3145				
10/11/2011				930				<30.	230	177
10/12/2011	40	390	430	1857	930	390	430			
10/17/2011				1857				230		90
10/18/2011	430	210	835	6324	430	430	24000			
10/24/2011				1463				230	40	96
10/25/2011	40	230	230	314	930	90	430			
10/31/2011				230				40	430	144
11/1/2011	930	230	1500	430	430	930	430			
11/7/2011				3735				90	150	40
11/8/2011	230	230	314	197	230	230	230			
11/14/2011				314				<30.	<30.	35
11/15/2011	40	<30.	1463	430	230	430	230			
11/21/2011				632				40	210	52
11/22/2011	40	40	314	314	230	70	390			
11/28/2011				430				230	230	67
11/29/2011	150	90	314	803	150	230	90			
12/5/2011				373				90	40	<30
12/6/2011	230	230	60	462	70	40	230			
12/12/2011				462				430	230	67
12/13/2011	230	40	79	750	30	230	430			
12/19/2011				230				90	90	40
12/20/2011	40	1500	35	410	<30.	90	40			
12/27/2011				186				150	430	52
12/28/2011	40	390	335	1397	230	230	230			

Table 32: Moshassuck, Blackstone and Pawtuxet River Fecal Coliform Data

Bay Fecal Data 2011

	Date	1/5/11	2/17/11	3/9/11	3/23/11	4/6/11	4/27/11	5/11/11	5/26/11	6/9/11	6/22/11	7/7/11	7/20/11	8/3/11	8/17/11	9/1/11	9/14/11	9/28/11	10/13/11	10/26/11	11/9/11	12/1/11	12/15/11	Geomean	Min
Seekonk River	**Division St Dock**			150	43	93	43	43		230	230	1,500	150	4,300	2,300	930	230	93	9,300	43	150	9,300	75	304	43
	Div St Dock Duplicate			430																					
	Bishop Pt			150	43	43	43	43		230	150	430	150	4,300	230	430	230	430	24,000	23	43	9,300	93	233	23
	BP Outfall			43	43	93	43	75		930	93	230	230	46,000	2,100	230	2,300	43	4,300	93	230	9,300	150	330	43
	Phillipsdale Landing		93	150	15	75	43	150	230	75	43	230	43	20	2,300	230	430	230	2,100	43	230	9,300	430	170	15
	Phillipsdale Landing Duplicate		93	150	43	43	23	23	230	230	39	230	93	430	2,300	430	230	230	930	75	43	4,300	430		
	Narr Boating Center	43	93	230	43	150	430	230	93	430	93	43	75	150	430	230	230	230	9,300	150	93	2,300	93	191	43
	Crook Pt	230	43	93	43	75	23	75	93	75	23	150	43	21	930	230	230	43	930	43	93	2,300	230	107	21
Providence River	**Comm. Boating Center**	43	93	430	93	23	43	43	150	24,000	93	93	230	93	1,500	430	230	230	2,300	23	230	4,300	230	214	23
	Point St Bridge	430	93	930	230	230	930	430	750	240,000	230	230	150	43	4,300	43	930		9,300	230	230	4,300	93	530	43
	Collier Pt Park	23	93	430	43	23	43	230	1,500	24,000	15	93	150	43	930	93	230	93	4,300	93	93	2,300	210	187	15
	FP Outfall	43	3	230	93	93	93	15	150	1,500	43	23	230	230	2,300	930	43	93	430	150	11	15,000	230	119	3
	FP Outfall Duplicate	43	9	230																					
	South FP East	9	3	150	15	23	7	4	93	1,500	4	7	9	93	430	93	9	93	43	150	10	9,300	150	41	3
	Save the Bay	7	4	93	4	3	15	9	230	150	4	4	230	23	430	430	93	230	230	43	43	2,300	93	46	3
	Edgewood Yacht Club	4	23	430	15	150	43	9	93	23	9	3	93	4	2,300	93	23	20	93	9	93	15,000	93	48	3
	Pawt/Prov Junction	43	43	430	43	43	93	23	93	93	43	3	43	15	2,300	430	43	23	93	23	150	9,300	43	77	3
	Gaspee Pt	43	23	230	43	15	9	43	39	15	3	4	93	3	2,300	23	43	23	43	23	43	2,300	43	37	3
	Bullock Neck	93	23	150	23	93	4	9	43	23	3	4	7	7	430	39	9	9	23	23	14	2300		25	3
	Bullocks Reach Buoy	23	43	93	15	23	4	15	43	93	3	4	7	3	430	43	23	43	43	4	43	4,300	43	28	3
	Shawomet	23	4	230	23	23	43	23	15	9	3	7	15	4	230	93	23	3	43	230	150	4,300		31	3
	North of Nayatt Point	43	9	43	15	43	43	3	43	230	3	4	3	3	430	23	4	23	43	15	75	2,300		25	3
	Conimicut Pt	43	4	93	23	15	43	9	4	23	4	4	21	4	930	23	3	3	9	7	43	4300		20	3
	Conimicut Pt Duplicate	15	3	230	21	23	23	23	15	15	3	4	4	9	2,300	23	3	4	9	21	23	4,300			
	SR Geomean	99	77	145	37	75	50	70	146	223	73	243	94	584	1130	336	349	137	3994	57	103	5588	170	**190**	37
	PR Geomean	30	14	211	29	33	30	20	75	265	9	9	35	14	1013	86	30	28	123	34	54	4570	101	**56**	9
	Max	430	93	930	230	230	930	430	1,500	240,000	230	1,500	230	46,000	4,300	930	2,300	430	24,000	230	230	15,000	430		93
	Final Geomean	**35**	**20**	**187**	**31**	**43**	**36**	**30**	**86**	**251**	**18**	**26**	**48**	**46**	**1049**	**133**	**65**	**47**	**372**	**40**	**66**	**4872**	**125**	**81**	18
	Percent Greater than 400 MPN/100 ml	6%	0%	25%	0%	0%	9%	5%	11%	32%	0%	9%	0%	18%	91%	32%	14%	5%	50%	0%	0%	100%	12%		
	Number of Stations Sampled (including duplicates)	18	20	24	22	22	22	22	19	22	22	22	22	22	22	22	22	21	22	22	22	22	17		
	Bay Blank	<3	<3	<3	<3	<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	T	0	0	T	0.06	0.1	0	0	0	0	0	0	0	0.54	T	0	0	0.01		
	Rain total - 1 Day prior to sampling	0	0	0	0	0.04	T	0.03	0	T	0	0	0	T	0	0	0	0	0.1	0.02	0	0.4	0		
	Rain total - 2 Days prior to sampling	0	0	0.54	0.32	0.11	T	0	0.3	0	0	0	T	0	2.36	0	0	0	0	T	0	0.31	0		
	Rain total - 3 Days prior to sampling	0.15	T	0.09	0	0	0.01	0	0.07	0	0	0	0	0	0.03	0	0	0	0	0	0	0	0		
	Rain total - 4 Days prior to sampling	0	T	0.01	0	T	0.66	0.06	0	0.02	0	0.16	0	0	0	1.53	0	0.44	0	0	0	0	0		
	Rain total - 5 Days prior to sampling	0	T	0	0	0.41	0	0	0	0	0.43	0	0.03	T	0	0.45	0	0.67	0	0	0	0	0.02		
	Total Rainfall	**0.15**	**0**	**0.64**	**0.32**	**0.56**	**0.67**	**0.09**	**0.37**	**0.08**	**0.53**	**0.16**	**0.03**	**0**	**2.39**	**1.98**	**0**	**1.11**	**0.64**	**0.02**	**0**	**0.71**	**0.03**		
	High tide	8:27	6:49	10:36	11:39	10:30	17:02	15:15	16:15	14:54	13:49	13:37	12:22	11:29	11:00	11:07	9:47	9:02	9:14	7:52	6:38	12:43	10:55		
	Low tide	13:59	12:39	15:41	16:43	15:36	10:22	8:18	9:09	5:52	6:25	6:17	5:03	16:50	16:17	16:37	15:13	14:41	14:50	13:34	12:16	5:18	16:22		

Table 33: Bay Fecal Coiform Data

*Rain data is from TF Green

Results are in MPN/100 ml

Max
4300
24000
46000
9300
9300
2300
24000
240000
24000
15000
9300
2300
15000
9300
2300
2300
4300
4300
2300
4300
5588
4570
240000
4872

Table 33: Bay Fecal Coiform Data

*Rain data is from TF Green

Results are in MPN/100 ml

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

Date	1/5/11	2/17/11	3/9/11	3/23/11	4/6/11	4/27/11	5/11/11	5/26/11	6/9/11	6/22/11	7/7/11	7/20/11	8/3/11	8/17/11	9/1/11	9/14/11	9/28/11	10/13/11	10/26/11	11/9/11	12/1/11	12/15/11	Min	Max	Geomean
Phillipsdale Landing		10	31	10	10	20	31	41	41	10	10	10	10	134	75	20	20	272	31	20	199	31	**10**	**272**	**27**
Phillipsdale Landing Duplicate		10	30	20	10	10	63	41	20	10	10	10	10	107	145	20	73	624	30	10	336	31	**10**	**624**	**30**
Point St Bridge	75	20	146	52	216	30	63	97	24,196	197	52	20	10		74	86		2400	109	84	148	10	**10**	**24196**	**96**
South FP East	10	30	97	10	10	10	10	10	521	10	10	10	20	134	41	10	10	41	10	10	249	10	**10**	**521**	**21**
Gaspee Pt	75	20	97	10	10	10	10	20	10	10	10	10	10	146	20	10	10	20	30	10	85	20	**10**	**146**	**19**
Conimicut Pt	10	10	85	10	10	10	10	10	10	10	10	10	10	63	31	10	10	10	10	10	86		**10**	**86**	**14**
Conimicut Pt Duplicate	41	10	41		10	10	10	10	10		20	10	10	30	20	10	10	10	10	10	262		**10**	**262**	**16**
Blank	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			
Geomean	**30**	**14**	**64**	**15**	**16**	**13**	**20**	**23**	**72**	**16**	**14**	**11**	**11**	**90**	**46**	**17**	**16**	**86**	**23**	**15**	**173**	**18**			

Table 34: Bay Enterococci Data

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	15:45	Cadmium	ppb	0.176
2/25/2011	15:45	NO3+NO2	ppm-N	0.34
2/25/2011	15:45	Tin	ppb	0.523
2/25/2011	15:45	Silver	ppb	0.57
2/25/2011	15:45	111-Trichloroethane	ppb	<1.0
2/25/2011	15:45	1122Tetrachlorethane	ppb	<1.0
2/25/2011	15:45	112-Trichloroethane	ppb	<1.0
2/25/2011	15:45	1,1-Dichloroethane	ppb	<1.0
2/25/2011	15:45	1,1-Dichloroethene	ppb	<1.0
2/25/2011	15:45	1,2-Dichlorobenzene	ppb	<1.0
2/25/2011	15:45	1,2-Dichloroethane	ppb	<1.0
2/25/2011	15:45	1,2-Dichloropropane	ppb	<1.0
2/25/2011	15:45	1,3-Dichlorobenzene	ppb	<1.0
2/25/2011	15:45	1,4-Dichlorobenzene	ppb	<1.0
2/25/2011	15:45	Benzene	ppb	<1.0
2/25/2011	15:45	Bromodichloromethane	ppb	<1.0
2/25/2011	15:45	Bromomethane	ppb	<1.0
2/25/2011	15:45	CarbonTetrachloride	ppb	<1.0
2/25/2011	15:45	Chlorobenzene	ppb	<1.0
2/25/2011	15:45	Chloroethane	ppb	<1.0
2/25/2011	15:45	Chloroform	ppb	<1.0
2/25/2011	15:45	Chloromethane	ppb	<1.0
2/25/2011	15:45	cis13Dichloropropene	ppb	<1.0
2/25/2011	15:45	Dibromochloromethane	ppb	<1.0
2/25/2011	15:45	Ethylbenzene	ppb	<1.0
2/25/2011	15:45	Methylene Chloride	ppb	<1.0
2/25/2011	15:45	o-xylene	ppb	<1.0
2/25/2011	15:45	T-1,2-Dichloroethene	ppb	<1.0
2/25/2011	15:45	T-13-Dichloropropene	ppb	<1.0
2/25/2011	15:45	Tetrachlorethene	ppb	<1.0
2/25/2011	15:45	Trichlorethene	ppb	<1.0
2/25/2011	15:45	Vinyl Chloride	ppb	<1.0
2/25/2011	15:45	Nickel	ppb	<10.0
2/25/2011	15:45	Chromium	ppb	10.1
2/25/2011	15:45	P-Terphenyl-d14	%	63
2/25/2011	15:45	Phenol-d5	%	65
2/25/2011	15:45	Nitrobenzene-d5	%	69
2/25/2011	15:45	2-Fluorobiphenyl	%	71
2/25/2011	15:45	246-Tribromophenol	%	75
2/25/2011	15:45	Chromium	ppb	7.56
2/25/2011	15:45	Bromofluorobenzene	%	94.12
2/25/2011	15:45	Toluene-d8	%	94.68
2/25/2011	15:45	12-Dichloroethane-d4	%	96.14
2/25/2011	16:00	Cadmium	ppb	0.174
2/25/2011	16:00	NO3+NO2	ppm-N	0.326
2/25/2011	16:00	Tin	ppb	<0.5
2/25/2011	16:00	Silver	ppb	0.59
2/25/2011	16:00	Total_Phosphorus-P	ppm	0.823
2/25/2011	16:00	111-Trichloroethane	ppb	<1.0
2/25/2011	16:00	1122Tetrachlorethane	ppb	<1.0
2/25/2011	16:00	112-Trichloroethane	ppb	<1.0
2/25/2011	16:00	1,1-Dichloroethane	ppb	<1.0
2/25/2011	16:00	1,1-Dichloroethene	ppb	<1.0
2/25/2011	16:00	1,2-Dichlorobenzene	ppb	<1.0
2/25/2011	16:00	1,2-Dichloroethane	ppb	<1.0
2/25/2011	16:00	1,2-Dichloropropane	ppb	<1.0
2/25/2011	16:00	1,3-Dichlorobenzene	ppb	<1.0
2/25/2011	16:00	1,4-Dichlorobenzene	ppb	<1.0
2/25/2011	16:00	Benzene	ppb	<1.0
2/25/2011	16:00	Bromodichloromethane	ppb	<1.0
2/25/2011	16:00	Bromomethane	ppb	<1.0
2/25/2011	16:00	CarbonTetrachloride	ppb	<1.0
2/25/2011	16:00	Chlorobenzene	ppb	<1.0
2/25/2011	16:00	Chloroethane	ppb	<1.0
2/25/2011	16:00	Chloroform	ppb	<1.0
2/25/2011	16:00	Chloromethane	ppb	<1.0
2/25/2011	16:00	cis13Dichloropropene	ppb	<1.0
2/25/2011	16:00	Dibromochloromethane	ppb	<1.0
2/25/2011	16:00	Nnitrosodinpropylami	ppb	<5.000
2/25/2011	16:00	Nnitrosodiphenylamin	ppb	<5.000
2/25/2011	16:00	Pentachlorophenol	ppb	<5.000
2/25/2011	16:00	Phenanthrene	ppb	<5.000
2/25/2011	16:00	Phenol	ppb	<5.000
2/25/2011	16:00	Pyrene	ppb	<5.000
2/25/2011	16:00	Nickel	ppb	5.38
2/25/2011	16:00	Phenol-d5	%	60
2/25/2011	16:00	P-Terphenyl-d14	%	61
2/25/2011	16:00	BOD	ppm	<63
2/25/2011	16:00	2-Fluorobiphenyl	%	66
2/25/2011	16:00	Nitrobenzene-d5	%	69
2/25/2011	16:00	246-Tribromophenol	%	77
2/25/2011	16:00	Cyanide	ppb	7.78
2/25/2011	16:00	Chromium	ppb	8.2
2/25/2011	16:00	Toluene	ppb	8.27
2/25/2011	16:00	Bromofluorobenzene	%	94.44
2/25/2011	16:00	Toluene-d8	%	96.44
2/25/2011	16:00	Oil_and_Grease	ppm	9.66
2/25/2011	16:00	12-Dichloroethane-d4	%	98.56

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	15:45	Aluminum	ppb	1020
2/25/2011	15:45	Zinc	ppb	106
2/25/2011	15:45	Iron	ppb	1110
2/25/2011	15:45	Total_Phosphorus-P	ppm	1.28
2/25/2011	15:45	TSS	ppm	158
2/25/2011	15:45	p-m xylene	ppb	<2.0
2/25/2011	15:45	Ammonia	ppm-N	2.05
2/25/2011	15:45	Aluminum	ppb	2050
2/25/2011	15:45	FecalNR	MPN/100 ml	>24000000
2/25/2011	15:45	Copper	ppb	24.8
2/25/2011	15:45	Cadmium	ppb	<2.50
2/25/2011	15:45	Zinc	ppb	287
2/25/2011	15:45	Oil_and_Grease	ppm	30
2/25/2011	15:45	Lead	ppb	34
2/25/2011	15:45	Iron	ppb	3500
2/25/2011	15:45	Lead	ppb	35.5
2/25/2011	15:45	TotDissolvedNitrogen	ppb	3600
2/25/2011	15:45	Copper	ppb	36.1
2/25/2011	15:45	2-Fluorophenol	%	37
2/25/2011	15:45	Silver	ppb	<4.00
2/25/2011	15:45	BOD	ppm	43.9
2/25/2011	15:45	Mercury	ppt	47.3
2/25/2011	15:45	Bromoform	ppb	<5.0
2/25/2011	15:45	124-Trichlorobenzene	ppb	<5.000
2/25/2011	15:45	1,2-Dichlorobenzene	ppb	<5.000
2/25/2011	15:45	12-Diphenylhydrazine	ppb	<5.000
2/25/2011	15:45	1,3-Dichlorobenzene	ppb	<5.000
2/25/2011	15:45	1,4-Dichlorobenzene	ppb	<5.000
2/25/2011	15:45	246-Trichlorophenol	ppb	<5.000
2/25/2011	15:45	2,4-Dichlorophenol	ppb	<5.000
2/25/2011	15:45	2,4-Dimethylphenol	ppb	<5.000
2/25/2011	15:45	2,4-Dinitrophenol	ppb	<5.000
2/25/2011	15:45	2,4-Dinitrotoluene	ppb	<5.000
2/25/2011	15:45	2,6-Dinitrotoluene	ppb	<5.000
2/25/2011	16:00	Ethylbenzene	ppb	<1.0
2/25/2011	16:00	Methylene Chloride	ppb	<1.0
2/25/2011	16:00	o-xylene	ppb	<1.0
2/25/2011	16:00	T-1,2-Dichloroethene	ppb	<1.0
2/25/2011	16:00	T-13-Dichloropropene	ppb	<1.0
2/25/2011	16:00	Tetrachlorethene	ppb	<1.0
2/25/2011	16:00	Trichlorethene	ppb	<1.0
2/25/2011	16:00	Vinyl Chloride	ppb	<1.0
2/25/2011	16:00	Chromium	ppb	<10.0
2/25/2011	16:00	Nickel	ppb	<10.0
2/25/2011	16:00	Zinc	ppb	123
2/25/2011	16:00	TSS	ppm	154
2/25/2011	16:00	Ammonia	ppm-N	1.79
2/25/2011	16:00	p-m xylene	ppb	<2.0
2/25/2011	16:00	Aluminum	ppb	2280
2/25/2011	16:00	Aluminum	ppb	2340
2/25/2011	16:00	FecalNR	MPN/100 ml	>24000000
2/25/2011	16:00	Cadmium	ppb	<2.50
2/25/2011	16:00	Zinc	ppb	254
2/25/2011	16:00	TotDissolvedNitrogen	ppb	3060
2/25/2011	16:00	Copper	ppb	31.7
2/25/2011	16:00	2-Fluorophenol	%	35
2/25/2011	16:00	Mercury	ppt	35.1
2/25/2011	16:00	Iron	ppb	3530
2/25/2011	16:00	Copper	ppb	37.4
2/25/2011	16:00	Silver	ppb	<4.00
2/25/2011	16:00	TKN	ppm-N	4.32
2/25/2011	16:00	Lead	ppb	44.4
2/25/2011	16:00	Lead	ppb	45.4
2/25/2011	16:00	Iron	ppb	4730
2/25/2011	16:00	Bromoform	ppb	<5.0
2/25/2011	16:00	124-Trichlorobenzene	ppb	<5.000
2/25/2011	16:00	1,2-Dichlorobenzene	ppb	<5.000
2/25/2011	16:00	12-Diphenylhydrazine	ppb	<5.000

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	15:45	2-Chloronaphthalene	ppb	<5.000
2/25/2011	15:45	2-Chlorophenol	ppb	<5.000
2/25/2011	15:45	2Methyl46dinitrophen	ppb	<5.000
2/25/2011	15:45	2-Nitrophenol	ppb	<5.000
2/25/2011	15:45	33-Dichlorobenzidine	ppb	<5.000
2/25/2011	15:45	4Bromophenphenether	ppb	<5.000
2/25/2011	15:45	4Chloro3methylphenol	ppb	<5.000
2/25/2011	15:45	4Chlorophenphenether	ppb	<5.000
2/25/2011	15:45	4-Nitrophenol	ppb	<5.000
2/25/2011	15:45	Acenaphthene	ppb	<5.000
2/25/2011	15:45	Acenaphthylene	ppb	<5.000
2/25/2011	15:45	Anthracene	ppb	<5.000
2/25/2011	15:45	Benzidine	ppb	<5.000
2/25/2011	15:45	Benzo(a)anthracene	ppb	<5.000
2/25/2011	15:45	Benzo(a)pyrene	ppb	<5.000
2/25/2011	15:45	Benzo(b)fluoranthene	ppb	<5.000
2/25/2011	15:45	Benzo(g,h,i)perylene	ppb	<5.000
2/25/2011	15:45	Benzo(k)fluoranthene	ppb	<5.000
2/25/2011	15:45	bis2chloroethoxymeth	ppb	<5.000
2/25/2011	15:45	bis2chloroethylether	ppb	<5.000
2/25/2011	15:45	bis2chloroisoproethe	ppb	<5.000
2/25/2011	15:45	Butylbenzylphthalate	ppb	<5.000
2/25/2011	15:45	Chrysene	ppb	<5.000
2/25/2011	15:45	Dibenzoahanthracene	ppb	<5.000
2/25/2011	15:45	Diethylphthalate	ppb	<5.000
2/25/2011	15:45	Dimethylphthalate	ppb	<5.000
2/25/2011	15:45	di-n-butylphthalate	ppb	<5.000
2/25/2011	15:45	Di-n-octylphthalate	ppb	<5.000
2/25/2011	15:45	Fluoranthene	ppb	<5.000
2/25/2011	15:45	Fluorene	ppb	<5.000
2/25/2011	15:45	Hexachlorobenzene	ppb	<5.000
2/25/2011	15:45	Hexachlorobutadiene	ppb	<5.000
2/25/2011	15:45	Hexachloroethane	ppb	<5.000
2/25/2011	15:45	Hexaclcyclopentadien	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	16:00	1,3-Dichlorobenzene	ppb	<5.000
2/25/2011	16:00	1,4-Dichlorobenzene	ppb	<5.000
2/25/2011	16:00	246-Trichlorophenol	ppb	<5.000
2/25/2011	16:00	2,4-Dichlorophenol	ppb	<5.000
2/25/2011	16:00	2,4-Dimethylphenol	ppb	<5.000
2/25/2011	16:00	2,4-Dinitrophenol	ppb	<5.000
2/25/2011	16:00	2,4-Dinitrotoluene	ppb	<5.000
2/25/2011	16:00	2,6-Dinitrotoluene	ppb	<5.000
2/25/2011	16:00	2-Chloronaphthalene	ppb	<5.000
2/25/2011	16:00	2-Chlorophenol	ppb	<5.000
2/25/2011	16:00	2Methyl46dinitrophen	ppb	<5.000
2/25/2011	16:00	2-Nitrophenol	ppb	<5.000
2/25/2011	16:00	33-Dichlorobenzidine	ppb	<5.000
2/25/2011	16:00	4Bromophenphenether	ppb	<5.000
2/25/2011	16:00	4Chloro3methylphenol	ppb	<5.000
2/25/2011	16:00	4Chlorophenphenether	ppb	<5.000
2/25/2011	16:00	4-Nitrophenol	ppb	<5.000
2/25/2011	16:00	Acenaphthene	ppb	<5.000
2/25/2011	16:00	Acenaphthylene	ppb	<5.000
2/25/2011	16:00	Anthracene	ppb	<5.000
2/25/2011	16:00	Benzidine	ppb	<5.000
2/25/2011	16:00	Benzo(a)anthracene	ppb	<5.000
2/25/2011	16:00	Benzo(a)pyrene	ppb	<5.000
2/25/2011	16:00	Benzo(b)fluoranthene	ppb	<5.000
2/25/2011	16:00	Benzo(g,h,i)perylene	ppb	<5.000
2/25/2011	16:00	Benzo(k)fluoranthene	ppb	<5.000
2/25/2011	16:00	bis2chloroethoxymeth	ppb	<5.000
2/25/2011	16:00	bis2chloroethylether	ppb	<5.000
2/25/2011	16:00	bis2chloroisoproethe	ppb	<5.000
2/25/2011	16:00	bis2ethylhexylphthal	ppb	<5.000
2/25/2011	16:00	Butylbenzylphthalate	ppb	<5.000
2/25/2011	16:00	Chrysene	ppb	<5.000
2/25/2011	16:00	Dibenzoahanthracene	ppb	<5.000
2/25/2011	16:00	Diethylphthalate	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	15:45	Indeno(123-cd)pyrene	ppb	<5.000
2/25/2011	15:45	Isophorone	ppb	<5.000
2/25/2011	15:45	Naphthalene	ppb	<5.000
2/25/2011	15:45	Nitrobenzene	ppb	<5.000
2/25/2011	15:45	Nnitrosodimethylamin	ppb	<5.000
2/25/2011	15:45	Nnitrosodinpropylami	ppb	<5.000
2/25/2011	15:45	Nnitrosodiphenylamin	ppb	<5.000
2/25/2011	15:45	Pentachlorophenol	ppb	<5.000
2/25/2011	15:45	Phenanthrene	ppb	<5.000
2/25/2011	15:45	Phenol	ppb	<5.000
2/25/2011	15:45	Pyrene	ppb	<5.000
2/25/2011	15:45	bis2ethylhexylphthal	ppb	5
2/25/2011	15:45	Cyanide	ppb	5.07
2/25/2011	15:45	Nickel	ppb	5.36
2/25/2011	15:45	Toluene	ppb	6.01
2/25/2011	15:45	TKN	ppm-N	6.19

Sample Date	Sample Time	Parameter	Units	Result
2/25/2011	16:00	Dimethylphthalate	ppb	<5.000
2/25/2011	16:00	di-n-butylphthalate	ppb	<5.000
2/25/2011	16:00	Di-n-octylphthalate	ppb	<5.000
2/25/2011	16:00	Fluoranthene	ppb	<5.000
2/25/2011	16:00	Fluorene	ppb	<5.000
2/25/2011	16:00	Hexachlorobenzene	ppb	<5.000
2/25/2011	16:00	Hexachlorobutadiene	ppb	<5.000
2/25/2011	16:00	Hexachloroethane	ppb	<5.000
2/25/2011	16:00	Hexaclcyclopentadien	ppb	<5.000
2/25/2011	16:00	Indeno(123-cd)pyrene	ppb	<5.000
2/25/2011	16:00	Isophorone	ppb	<5.000
2/25/2011	16:00	Naphthalene	ppb	<5.000
2/25/2011	16:00	Nitrobenzene	ppb	<5.000
2/25/2011	16:00	Nnitrosodimethylamin	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result

All samples are from CSO Wet weather Overflow at Brook St. and India St. (NBC CSO # 19A)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:00	Nitrite	ppm-N	0.0195
10/27/2011	9:00	Nitrite		0.0195
10/27/2011	9:00	Total_Phosphorus-P	ppm	0.351
10/27/2011	9:00	Ammonia	ppm-N	0.478
10/27/2011	9:00	Nitrate		0.5005
10/27/2011	9:00	NO3+NO2		0.52
10/27/2011	9:00	NO3+NO2	ppm-N	0.52
10/27/2011	9:00	TKN	ppm-N	0.874
10/27/2011	9:00	111-Trichloroethane	ppb	<10.
10/27/2011	9:00	1122-t-chloroethane	ppb	<10.
10/27/2011	9:00	112-Trichloroethane	ppb	<10.
10/27/2011	9:00	1,1-Dichloroethane	ppb	<10.
10/27/2011	9:00	1,1-Dichloroethylene	ppb	<10.
10/27/2011	9:00	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	9:00	1,2-Dichloroethane	ppb	<10.
10/27/2011	9:00	1,2-Dichloropropane	ppb	<10.
10/27/2011	9:00	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	9:00	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	9:00	Benzene	ppb	<10.
10/27/2011	9:00	Bromodichloromethane	ppb	<10.
10/27/2011	9:00	Bromoform	ppb	<10.
10/27/2011	9:00	CarbonTetrachloride	ppb	<10.
10/27/2011	9:00	Chlorobenzene	ppb	<10.
10/27/2011	9:00	Chloroform	ppb	<10.
10/27/2011	9:00	cis13Dichloropropyle	ppb	<10.
10/27/2011	9:00	Dibromochloromethane	ppb	<10.
10/27/2011	9:00	Ethylbenzene	ppb	<10.
10/27/2011	9:00	t12-Dichloroethylene	ppb	<10.
10/27/2011	9:00	t13dichloropropylene	ppb	<10.
10/27/2011	9:00	Tetrachloroethylene	ppb	<10.
10/27/2011	9:00	Toluene	ppb	<10.
10/27/2011	9:00	Trichloroethylene	ppb	<10.
10/27/2011	9:00	Trichlorofluorometha	ppb	<10.
10/27/2011	9:00	Vinyl Chloride	ppb	<10.
10/27/2011	9:00	Xylenes	ppb	<10.
10/27/2011	9:00	Chromium	ppb	<10.0
10/27/2011	9:00	Lead	ppb	<10.0
10/27/2011	9:00	Nickel	ppb	<10.0
10/27/2011	9:00	Bromomethane	ppb	<100.
10/27/2011	9:00	Chloroethane	ppb	<100.
10/27/2011	9:00	Chloromethane	ppb	<100.
10/27/2011	9:00	4-Bromofluorobenzene	%	100
10/27/2011	9:00	Dibromofluoromethane	%	106
10/27/2011	9:00	BOD	ppm	11
10/27/2011	9:00	Selenium		14.8
10/27/2011	9:00	Copper	ppb	15.9
10/27/2011	9:00	TSS	ppm	16
10/27/2011	9:00	2chloroethylvinyleth	ppb	<20.
10/27/2011	9:00	Fecal	MPN/100 ml	24000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:00	P-Terphenyl-d14	%	54
10/27/2011	9:00	Mercury	ppt	5.6
10/27/2011	9:00	2-Fluorobiphenyl	%	62
10/27/2011	9:00	246-Tribromophenol	%	86
10/27/2011	9:00	Toluene-d8	%	99
10/27/2011	11:00	Nitrite	ppm-N	0.0112
10/27/2011	11:00	Nitrite		0.0112
10/27/2011	11:00	Total_Phosphorus-P	ppm	<0.2
10/27/2011	11:00	Ammonia	ppm-N	0.301
10/27/2011	11:00	Nitrate		0.3038
10/27/2011	11:00	NO3+NO2	ppm-N	0.315
10/27/2011	11:00	NO3+NO2		0.315
10/27/2011	11:00	TKN	ppm-N	<0.5
10/27/2011	11:00	111-Trichloroethane	ppb	<10.
10/27/2011	11:00	1122-t-chloroethane	ppb	<10.
10/27/2011	11:00	112-Trichloroethane	ppb	<10.
10/27/2011	11:00	1,1-Dichloroethane	ppb	<10.
10/27/2011	11:00	1,1-Dichloroethylene	ppb	<10.
10/27/2011	11:00	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	11:00	1,2-Dichloroethane	ppb	<10.
10/27/2011	11:00	1,2-Dichloropropane	ppb	<10.
10/27/2011	11:00	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	11:00	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	11:00	Benzene	ppb	<10.
10/27/2011	11:00	Bromodichloromethane	ppb	<10.
10/27/2011	11:00	Bromoform	ppb	<10.
10/27/2011	11:00	CarbonTetrachloride	ppb	<10.
10/27/2011	11:00	Chlorobenzene	ppb	<10.
10/27/2011	11:00	Chloroform	ppb	<10.
10/27/2011	11:00	cis13Dichloropropyle	ppb	<10.
10/27/2011	11:00	Dibromochloromethane	ppb	<10.
10/27/2011	11:00	Ethylbenzene	ppb	<10.
10/27/2011	11:00	t12-Dichloroethylene	ppb	<10.
10/27/2011	11:00	t13dichloropropylene	ppb	<10.
10/27/2011	11:00	Tetrachloroethylene	ppb	<10.
10/27/2011	11:00	Toluene	ppb	<10.
10/27/2011	11:00	Trichloroethylene	ppb	<10.
10/27/2011	11:00	Trichlorofluorometha	ppb	<10.
10/27/2011	11:00	Vinyl Chloride	ppb	<10.
10/27/2011	11:00	Xylenes	ppb	<10.
10/27/2011	11:00	Chromium	ppb	<10.0
10/27/2011	11:00	Copper	ppb	<10.0
10/27/2011	11:00	Lead	ppb	<10.0
10/27/2011	11:00	Nickel	ppb	<10.0
10/27/2011	11:00	Bromomethane	ppb	<100.
10/27/2011	11:00	Chloroethane	ppb	<100.
10/27/2011	11:00	Chloromethane	ppb	<100.
10/27/2011	11:00	Toluene-d8	%	101
10/27/2011	11:00	4-Bromofluorobenzene	%	103

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	11:00	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	11:00	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	11:00	Pentachlorophenol	ppb	<5.000
10/27/2011	11:00	Phenanthrene	ppb	<5.000
10/27/2011	11:00	Phenol	ppb	<5.000
10/27/2011	11:00	Pyrene	ppb	<5.000
10/27/2011	11:00	P-Terphenyl-d14	%	53
10/27/2011	11:00	Nitrobenzene-d5	%	56
10/27/2011	11:00	2-Fluorobiphenyl	%	62
10/27/2011	11:00	246-Tribromophenol	%	80
10/27/2011	11:00	BOD	ppm	<9
10/27/2011	13:35	Nitrite	ppm-N	0.0154
10/27/2011	13:35	Nitrite		0.0154
10/27/2011	13:35	Ammonia	ppm-N	0.229
10/27/2011	13:35	Total_Phosphorus-P	ppm	0.235
10/27/2011	13:35	Nitrate		0.3906
10/27/2011	13:35	NO3+NO2	ppm-N	0.406
10/27/2011	13:35	NO3+NO2		0.406
10/27/2011	13:35	TKN	ppm-N	<0.5
10/27/2011	13:35	111-Trichloroethane	ppb	<10.
10/27/2011	13:35	1122-t-chloroethane	ppb	<10.
10/27/2011	13:35	112-Trichloroethane	ppb	<10.
10/27/2011	13:35	1,1-Dichloroethane	ppb	<10.
10/27/2011	13:35	1,1-Dichloroethylene	ppb	<10.
10/27/2011	13:35	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	13:35	1,2-Dichloroethane	ppb	<10.
10/27/2011	13:35	1,2-Dichloropropane	ppb	<10.
10/27/2011	13:35	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	13:35	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	13:35	Benzene	ppb	<10.
10/27/2011	13:35	Bromodichloromethane	ppb	<10.
10/27/2011	13:35	Bromoform	ppb	<10.
10/27/2011	13:35	CarbonTetrachloride	ppb	<10.
10/27/2011	13:35	Chlorobenzene	ppb	<10.
10/27/2011	13:35	Chloroform	ppb	<10.
10/27/2011	13:35	cis13Dichloropropyle	ppb	<10.
10/27/2011	13:35	Dibromochloromethane	ppb	<10.
10/27/2011	13:35	Ethylbenzene	ppb	<10.
10/27/2011	13:35	t12-Dichloroethylene	ppb	<10.
10/27/2011	13:35	t13dichloropropylene	ppb	<10.
10/27/2011	13:35	Tetrachloroethylene	ppb	<10.
10/27/2011	13:35	Toluene	ppb	<10.
10/27/2011	13:35	Trichloroethylene	ppb	<10.
10/27/2011	13:35	Trichlorofluorometha	ppb	<10.
10/27/2011	13:35	Vinyl Chloride	ppb	<10.
10/27/2011	13:35	Xylenes	ppb	<10.
10/27/2011	13:35	Chromium	ppb	<10.0
10/27/2011	13:35	Copper	ppb	<10.0
10/27/2011	13:35	Lead	ppb	<10.0

Table 36: CSO Wet Weather Overflow Brook St. and India St. NBC CSO 19A

All samples are from CSO Wet weather Overflow at Brook St. and India St. (NBC CSO # 19A)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:00	Cadmium	ppb	<2.50
10/27/2011	9:00	Phenol-d5	%	26
10/27/2011	9:00	Aluminum	ppb	284
10/27/2011	9:00	2-Fluorophenol	%	29
10/27/2011	9:00	Oil_and_Grease	ppm	<4.0
10/27/2011	9:00	Cyanide	ppb	<4.00
10/27/2011	9:00	Silver	ppb	<4.00
10/27/2011	9:00	Zinc	ppb	40.5
10/27/2011	9:00	Iron	ppb	426
10/27/2011	9:00	Arsenic		<5
10/27/2011	9:00	Methylene Chloride	ppb	<50.
10/27/2011	9:00	124-Trichlorobenzene	ppb	<5.000
10/27/2011	9:00	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	9:00	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	9:00	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	9:00	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	9:00	246-Trichlorophenol	ppb	<5.000
10/27/2011	9:00	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	9:00	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	9:00	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	9:00	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	9:00	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	9:00	2-Chloronaphthalene	ppb	<5.000
10/27/2011	9:00	2-Chlorophenol	ppb	<5.000
10/27/2011	9:00	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	9:00	2-Nitrophenol	ppb	<5.000
10/27/2011	9:00	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	9:00	4Bromophenphenether	ppb	<5.000
10/27/2011	9:00	4Chloro3methylphenol	ppb	<5.000
10/27/2011	9:00	4Chlorophenphenether	ppb	<5.000
10/27/2011	9:00	4-Nitrophenol	ppb	<5.000
10/27/2011	9:00	Acenaphthene	ppb	<5.000
10/27/2011	9:00	Acenaphthylene	ppb	<5.000
10/27/2011	9:00	Anthracene	ppb	<5.000
10/27/2011	9:00	Benzidine	ppb	<5.000
10/27/2011	9:00	Benzo(a)anthracene	ppb	<5.000
10/27/2011	9:00	Benzo(a)pyrene	ppb	<5.000
10/27/2011	9:00	Benzo(b)fluoranthene	ppb	<5.000
10/27/2011	9:00	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	9:00	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	9:00	bis2chloroethoxymeth	ppb	<5.000
10/27/2011	9:00	bis2chloroethylether	ppb	<5.000
10/27/2011	9:00	bis2chloroisoproethe	ppb	<5.000
10/27/2011	9:00	bis2ethylhexylphthal	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	11:00	Dibromofluoromethane	%	106
10/27/2011	11:00	Aluminum	ppb	128
10/27/2011	11:00	Zinc	ppb	13
10/27/2011	11:00	2chloroethylvinyleth	ppb	<20.
10/27/2011	11:00	Selenium		20.3
10/27/2011	11:00	Iron	ppb	231
10/27/2011	11:00	Cadmium	ppb	<2.50
10/27/2011	11:00	Mercury	ppt	2.64
10/27/2011	11:00	Phenol-d5	%	29
10/27/2011	11:00	2-Fluorophenol	%	33
10/27/2011	11:00	TSS	ppm	34
10/27/2011	11:00	Fecal	MPN/100 ml	390
10/27/2011	11:00	Oil_and_Grease	ppm	<4.0
10/27/2011	11:00	Cyanide	ppb	<4.00
10/27/2011	11:00	Silver	ppb	<4.00
10/27/2011	11:00	Arsenic		<5
10/27/2011	11:00	Methylene Chloride	ppb	<50.
10/27/2011	11:00	124-Trichlorobenzene	ppb	<5.000
10/27/2011	11:00	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	11:00	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	11:00	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	11:00	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	11:00	246-Trichlorophenol	ppb	<5.000
10/27/2011	11:00	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	11:00	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	11:00	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	11:00	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	11:00	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	11:00	2-Chloronaphthalene	ppb	<5.000
10/27/2011	11:00	2-Chlorophenol	ppb	<5.000
10/27/2011	11:00	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	11:00	2-Nitrophenol	ppb	<5.000
10/27/2011	11:00	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	11:00	4Bromophenphenether	ppb	<5.000
10/27/2011	11:00	4Chloro3methylphenol	ppb	<5.000
10/27/2011	11:00	4Chlorophenphenether	ppb	<5.000
10/27/2011	11:00	4-Nitrophenol	ppb	<5.000
10/27/2011	11:00	Acenaphthene	ppb	<5.000
10/27/2011	11:00	Acenaphthylene	ppb	<5.000
10/27/2011	11:00	Anthracene	ppb	<5.000
10/27/2011	11:00	Benzidine	ppb	<5.000
10/27/2011	11:00	Benzo(a)anthracene	ppb	<5.000
10/27/2011	11:00	Benzo(a)pyrene	ppb	<5.000
10/27/2011	11:00	Benzo(b)fluoranthene	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	13:35	Nickel	ppb	<10.0
10/27/2011	13:35	Bromomethane	ppb	<100.
10/27/2011	13:35	Chloroethane	ppb	<100.
10/27/2011	13:35	Chloromethane	ppb	<100.
10/27/2011	13:35	Dibromofluoromethane	%	100
10/27/2011	13:35	4-Bromofluorobenzene	%	102
10/27/2011	13:35	Mercury	ppt	12.6
10/27/2011	13:35	Aluminum	ppb	156
10/27/2011	13:35	Selenium		16.6
10/27/2011	13:35	Zinc	ppb	17.8
10/27/2011	13:35	2chloroethylvinyleth	ppb	<20.
10/27/2011	13:35	TSS	ppm	20
10/27/2011	13:35	Cadmium	ppb	<2.50
10/27/2011	13:35	Phenol-d5	%	28
10/27/2011	13:35	2-Fluorophenol	%	32
10/27/2011	13:35	Iron	ppb	372
10/27/2011	13:35	Oil_and_Grease	ppm	<4.0
10/27/2011	13:35	Cyanide	ppb	<4.00
10/27/2011	13:35	Silver	ppb	<4.00
10/27/2011	13:35	Fecal	MPN/100 ml	430
10/27/2011	13:35	P-Terphenyl-d14	%	49
10/27/2011	13:35	Arsenic		<5
10/27/2011	13:35	Methylene Chloride	ppb	<50.
10/27/2011	13:35	124-Trichlorobenzene	ppb	<5.000
10/27/2011	13:35	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	13:35	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	13:35	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	13:35	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	13:35	246-Trichlorophenol	ppb	<5.000
10/27/2011	13:35	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	13:35	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	13:35	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	13:35	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	13:35	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	13:35	2-Chloronaphthalene	ppb	<5.000
10/27/2011	13:35	2-Chlorophenol	ppb	<5.000
10/27/2011	13:35	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	13:35	2-Nitrophenol	ppb	<5.000
10/27/2011	13:35	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	13:35	4Bromophenphenether	ppb	<5.000
10/27/2011	13:35	4Chloro3methylphenol	ppb	<5.000
10/27/2011	13:35	4Chlorophenphenether	ppb	<5.000
10/27/2011	13:35	4-Nitrophenol	ppb	<5.000
10/27/2011	13:35	Acenaphthene	ppb	<5.000

Table 36: CSO Wet Weather Overflow Brook St. and India St. NBC CSO 19A

All samples are from CSO Wet weather Overflow at Brook St. and India St. (NBC CSO # 19A)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:00	Butylbenzylphthalate	ppb	<5.000
10/27/2011	9:00	Chrysene	ppb	<5.000
10/27/2011	9:00	Dibenzoahanthracene	ppb	<5.000
10/27/2011	9:00	Diethylphthalate	ppb	<5.000
10/27/2011	9:00	Dimethylphthalate	ppb	<5.000
10/27/2011	9:00	di-n-butylphthalate	ppb	<5.000
10/27/2011	9:00	Di-n-octylphthalate	ppb	<5.000
10/27/2011	9:00	Fluoranthene	ppb	<5.000
10/27/2011	9:00	Fluorene	ppb	<5.000
10/27/2011	9:00	Hexachlorobenzene	ppb	<5.000
10/27/2011	9:00	Hexachlorobutadiene	ppb	<5.000
10/27/2011	9:00	Hexachloroethane	ppb	<5.000
10/27/2011	9:00	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	9:00	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	9:00	Isophorone	ppb	<5.000
10/27/2011	9:00	Naphthalene	ppb	<5.000
10/27/2011	9:00	Nitrobenzene	ppb	<5.000
10/27/2011	9:00	Nnitrosodimethylamin	ppb	<5.000
10/27/2011	9:00	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	9:00	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	9:00	Pentachlorophenol	ppb	<5.000
10/27/2011	9:00	Phenanthrene	ppb	<5.000
10/27/2011	9:00	Phenol	ppb	<5.000
10/27/2011	9:00	Pyrene	ppb	<5.000
10/27/2011	9:00	Nitrobenzene-d5	%	50

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	11:00	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	11:00	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	11:00	bis2chloroethoxymeth	ppb	<5.000
10/27/2011	11:00	bis2chloroethylether	ppb	<5.000
10/27/2011	11:00	bis2chloroisoproethe	ppb	<5.000
10/27/2011	11:00	bis2ethylhexylphthal	ppb	<5.000
10/27/2011	11:00	Butylbenzylphthalate	ppb	<5.000
10/27/2011	11:00	Chrysene	ppb	<5.000
10/27/2011	11:00	Dibenzoahanthracene	ppb	<5.000
10/27/2011	11:00	Diethylphthalate	ppb	<5.000
10/27/2011	11:00	Dimethylphthalate	ppb	<5.000
10/27/2011	11:00	di-n-butylphthalate	ppb	<5.000
10/27/2011	11:00	Di-n-octylphthalate	ppb	<5.000
10/27/2011	11:00	Fluoranthene	ppb	<5.000
10/27/2011	11:00	Fluorene	ppb	<5.000
10/27/2011	11:00	Hexachlorobenzene	ppb	<5.000
10/27/2011	11:00	Hexachlorobutadiene	ppb	<5.000
10/27/2011	11:00	Hexachloroethane	ppb	<5.000
10/27/2011	11:00	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	11:00	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	11:00	Isophorone	ppb	<5.000
10/27/2011	11:00	Naphthalene	ppb	<5.000
10/27/2011	11:00	Nitrobenzene	ppb	<5.000
10/27/2011	11:00	Nnitrosodimethylamin	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	13:35	Acenaphthylene	ppb	<5.000
10/27/2011	13:35	Anthracene	ppb	<5.000
10/27/2011	13:35	Benzidine	ppb	<5.000
10/27/2011	13:35	Benzo(a)anthracene	ppb	<5.000
10/27/2011	13:35	Benzo(a)pyrene	ppb	<5.000
10/27/2011	13:35	Benzo(b)fluoranthene	ppb	<5.000
10/27/2011	13:35	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	13:35	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	13:35	bis2chloroethoxymeth	ppb	<5.000
10/27/2011	13:35	bis2chloroethylether	ppb	<5.000
10/27/2011	13:35	bis2chloroisoproethe	ppb	<5.000
10/27/2011	13:35	bis2ethylhexylphthal	ppb	<5.000
10/27/2011	13:35	Butylbenzylphthalate	ppb	<5.000
10/27/2011	13:35	Chrysene	ppb	<5.000
10/27/2011	13:35	Dibenzoahanthracene	ppb	<5.000
10/27/2011	13:35	Diethylphthalate	ppb	<5.000
10/27/2011	13:35	Dimethylphthalate	ppb	<5.000
10/27/2011	13:35	di-n-butylphthalate	ppb	<5.000
10/27/2011	13:35	Di-n-octylphthalate	ppb	<5.000
10/27/2011	13:35	Fluoranthene	ppb	<5.000
10/27/2011	13:35	Fluorene	ppb	<5.000
10/27/2011	13:35	Hexachlorobenzene	ppb	<5.000
10/27/2011	13:35	Hexachlorobutadiene	ppb	<5.000
10/27/2011	13:35	Hexachloroethane	ppb	<5.000
10/27/2011	13:35	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	13:35	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	13:35	Isophorone	ppb	<5.000
10/27/2011	13:35	Naphthalene	ppb	<5.000
10/27/2011	13:35	Nitrobenzene	ppb	<5.000
10/27/2011	13:35	Nnitrosodimethylamin	ppb	<5.000
10/27/2011	13:35	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	13:35	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	13:35	Pentachlorophenol	ppb	<5.000
10/27/2011	13:35	Phenanthrene	ppb	<5.000
10/27/2011	13:35	Phenol	ppb	<5.000
10/27/2011	13:35	Pyrene	ppb	<5.000
10/27/2011	13:35	Nitrobenzene-d5	%	63
10/27/2011	13:35	2-Fluorobiphenyl	%	71
10/27/2011	13:35	246-Tribromophenol	%	75
10/27/2011	13:35	Toluene-d8	%	99

All samples are from CSO Wet Weather Overflow at Bucklin Brook (NBC CSO # 218)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:30	Nitrite	ppm-N	0.0506
10/27/2011	9:30	Nitrite		0.0506
10/27/2011	9:30	111-Trichloroethane	ppb	<10.
10/27/2011	9:30	1122-t-chloroethane	ppb	<10.
10/27/2011	9:30	112-Trichloroethane	ppb	<10.
10/27/2011	9:30	1,1-Dichloroethane	ppb	<10.
10/27/2011	9:30	1,1-Dichloroethylene	ppb	<10.
10/27/2011	9:30	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	9:30	1,2-Dichloroethane	ppb	<10.
10/27/2011	9:30	1,2-Dichloropropane	ppb	<10.
10/27/2011	9:30	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	9:30	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	9:30	Benzene	ppb	<10.
10/27/2011	9:30	Bromodichloromethane	ppb	<10.
10/27/2011	9:30	Bromoform	ppb	<10.
10/27/2011	9:30	CarbonTetrachloride	ppb	<10.
10/27/2011	9:30	Chlorobenzene	ppb	<10.
10/27/2011	9:30	Chloroform	ppb	<10.
10/27/2011	9:30	cis13Dichloropropyle	ppb	<10.
10/27/2011	9:30	Dibromochloromethane	ppb	<10.
10/27/2011	9:30	Ethylbenzene	ppb	<10.
10/27/2011	9:30	t12-Dichloroethylene	ppb	<10.
10/27/2011	9:30	t13dichloropropylene	ppb	<10.
10/27/2011	9:30	Tetrachloroethylene	ppb	<10.
10/27/2011	9:30	Toluene	ppb	<10.
10/27/2011	9:30	Trichloroethylene	ppb	<10.
10/27/2011	9:30	Trichlorofluorometha	ppb	<10.
10/27/2011	9:30	Vinyl Chloride	ppb	<10.
10/27/2011	9:30	Xylenes	ppb	<10.
10/27/2011	9:30	Chromium	ppb	<10.0
10/27/2011	9:30	Lead	ppb	<10.0
10/27/2011	9:30	Nickel	ppb	<10.0
10/27/2011	9:30	Bromomethane	ppb	<100.
10/27/2011	9:30	Chloroethane	ppb	<100.
10/27/2011	9:30	Chloromethane	ppb	<100.
10/27/2011	9:30	bis2ethylhexylphthal	ppb	10
10/27/2011	9:30	4-Bromofluorobenzene	%	101
10/27/2011	9:30	Dibromofluoromethane	%	102
10/27/2011	9:30	TSS	ppm	116
10/27/2011	9:30	Zinc	ppb	122
10/27/2011	9:30	TKN	ppm-N	12.4
10/27/2011	9:30	Nitrate		1.2694
10/27/2011	9:30	P-Terphenyl-d14	%	80
10/27/2011	9:30	Oil_and_Grease	ppm	8.81
10/27/2011	9:30	246-Tribromophenol	%	96
10/27/2011	9:30	Toluene-d8	%	99
10/27/2011	10:30	Nitrite	ppm-N	0.0412
10/27/2011	10:30	Nitrite		0.0412
10/27/2011	10:30	Nitrate		0.9688
10/27/2011	10:30	111-Trichloroethane	ppb	<10.
10/27/2011	10:30	1122-t-chloroethane	ppb	<10.
10/27/2011	10:30	112-Trichloroethane	ppb	<10.
10/27/2011	10:30	1,1-Dichloroethane	ppb	<10.
10/27/2011	10:30	1,1-Dichloroethylene	ppb	<10.
10/27/2011	10:30	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	10:30	1,2-Dichloroethane	ppb	<10.
10/27/2011	10:30	1,2-Dichloropropane	ppb	<10.
10/27/2011	10:30	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	10:30	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	10:30	Benzene	ppb	<10.
10/27/2011	10:30	Bromodichloromethane	ppb	<10.
10/27/2011	10:30	Bromoform	ppb	<10.
10/27/2011	10:30	CarbonTetrachloride	ppb	<10.
10/27/2011	10:30	Chlorobenzene	ppb	<10.
10/27/2011	10:30	Chloroform	ppb	<10.
10/27/2011	10:30	cis13Dichloropropyle	ppb	<10.
10/27/2011	10:30	Dibromochloromethane	ppb	<10.
10/27/2011	10:30	Ethylbenzene	ppb	<10.
10/27/2011	10:30	t12-Dichloroethylene	ppb	<10.
10/27/2011	10:30	t13dichloropropylene	ppb	<10.
10/27/2011	10:30	Tetrachloroethylene	ppb	<10.
10/27/2011	10:30	Toluene	ppb	<10.
10/27/2011	10:30	Trichloroethylene	ppb	<10.
10/27/2011	10:30	Trichlorofluorometha	ppb	<10.
10/27/2011	10:30	Vinyl Chloride	ppb	<10.
10/27/2011	10:30	Xylenes	ppb	<10.
10/27/2011	10:30	Chromium	ppb	<10.0
10/27/2011	10:30	Lead	ppb	<10.0
10/27/2011	10:30	Nickel	ppb	<10.0
10/27/2011	10:30	Bromomethane	ppb	<100.
10/27/2011	10:30	Chloroethane	ppb	<100.
10/27/2011	10:30	Chloromethane	ppb	<100.
10/27/2011	10:30	4-Bromofluorobenzene	%	100
10/27/2011	10:30	Toluene-d8	%	100
10/27/2011	10:30	BOD	ppm	55.9
10/27/2011	10:30	Nitrobenzene-d5	%	69
10/27/2011	10:30	P-Terphenyl-d14	%	70
10/27/2011	10:30	2-Fluorobiphenyl	%	72
10/27/2011	10:30	TSS	ppm	80
10/27/2011	10:30	Mercury	ppt	8.15
10/27/2011	10:30	Iron	ppb	849
10/27/2011	10:30	TKN	ppm-N	9.36
10/27/2011	10:30	246-Tribromophenol	%	95
10/27/2011	10:30	Zinc	ppb	95.9
10/27/2011	13:30	Nitrite	ppm-N	0.0221
10/27/2011	13:30	Nitrite		0.0221
10/27/2011	13:30	Total_Phosphorus-P	ppm	<0.2
10/27/2011	13:30	Ammonia	ppm-N	0.559
10/27/2011	13:30	111-Trichloroethane	ppb	<10.
10/27/2011	13:30	1122-t-chloroethane	ppb	<10.
10/27/2011	13:30	112-Trichloroethane	ppb	<10.
10/27/2011	13:30	1,1-Dichloroethane	ppb	<10.
10/27/2011	13:30	1,1-Dichloroethylene	ppb	<10.
10/27/2011	13:30	1,2-Dichlorobenzene	ppb	<10.
10/27/2011	13:30	1,2-Dichloroethane	ppb	<10.
10/27/2011	13:30	1,2-Dichloropropane	ppb	<10.
10/27/2011	13:30	1,3-Dichlorobenzene	ppb	<10.
10/27/2011	13:30	1,4-Dichlorobenzene	ppb	<10.
10/27/2011	13:30	Benzene	ppb	<10.
10/27/2011	13:30	Bromodichloromethane	ppb	<10.
10/27/2011	13:30	Bromoform	ppb	<10.
10/27/2011	13:30	CarbonTetrachloride	ppb	<10.
10/27/2011	13:30	Chlorobenzene	ppb	<10.
10/27/2011	13:30	Chloroform	ppb	<10.
10/27/2011	13:30	cis13Dichloropropyle	ppb	<10.
10/27/2011	13:30	Dibromochloromethane	ppb	<10.
10/27/2011	13:30	Ethylbenzene	ppb	<10.
10/27/2011	13:30	t12-Dichloroethylene	ppb	<10.
10/27/2011	13:30	t13dichloropropylene	ppb	<10.
10/27/2011	13:30	Tetrachloroethylene	ppb	<10.
10/27/2011	13:30	Toluene	ppb	<10.
10/27/2011	13:30	Trichloroethylene	ppb	<10.
10/27/2011	13:30	Trichlorofluorometha	ppb	<10.
10/27/2011	13:30	Vinyl Chloride	ppb	<10.
10/27/2011	13:30	Xylenes	ppb	<10.
10/27/2011	13:30	Chromium	ppb	<10.0

All samples are from CSO Wet Weather Overflow at Bucklin Brook (NBC CSO # 218)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:30	Iron	ppb	1290
10/27/2011	9:30	NO3+NO2	ppm-N	1.32
10/27/2011	9:30	NO3+NO2		1.32
10/27/2011	9:30	2chloroethylvinyleth	ppb	<20.
10/27/2011	9:30	Total_Phosphorus-P	ppm	2.27
10/27/2011	9:30	Fecal	MPN/100 ml	>240,000.
10/27/2011	9:30	Cadmium	ppb	<2.50
10/27/2011	9:30	Phenol-d5	%	30
10/27/2011	9:30	Copper	ppb	30.2
10/27/2011	9:30	2-Fluorophenol	%	35
10/27/2011	9:30	Mercury	ppt	37.5
10/27/2011	9:30	Silver	ppb	<4.00
10/27/2011	9:30	Cyanide	ppb	4.89
10/27/2011	9:30	Arsenic		<5
10/27/2011	9:30	Methylene Chloride	ppb	<50.
10/27/2011	9:30	124-Trichlorobenzene	ppb	<5.000
10/27/2011	9:30	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	9:30	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	9:30	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	9:30	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	9:30	246-Trichlorophenol	ppb	<5.000
10/27/2011	9:30	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	9:30	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	9:30	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	9:30	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	9:30	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	9:30	2-Chloronaphthalene	ppb	<5.000
10/27/2011	9:30	2-Chlorophenol	ppb	<5.000
10/27/2011	9:30	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	9:30	2-Nitrophenol	ppb	<5.000
10/27/2011	9:30	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	9:30	4Bromophenphenether	ppb	<5.000
10/27/2011	9:30	4Chloro3methylphenol	ppb	<5.000
10/27/2011	9:30	4Chlorophenphenether	ppb	<5.000
10/27/2011	9:30	4-Nitrophenol	ppb	<5.000
10/27/2011	9:30	Acenaphthene	ppb	<5.000
10/27/2011	9:30	Acenaphthylene	ppb	<5.000
10/27/2011	9:30	Anthracene	ppb	<5.000
10/27/2011	9:30	Benzidine	ppb	<5.000
10/27/2011	9:30	Benzo(a)anthracene	ppb	<5.000
10/27/2011	9:30	Benzo(a)pyrene	ppb	<5.000
10/27/2011	9:30	Benzo(b)fluoranthene	ppb	<5.000
10/27/2011	9:30	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	9:30	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	9:30	bis2chloroethoxymeth	ppb	<5.000
10/27/2011	9:30	bis2chloroethylether	ppb	<5.000
10/27/2011	9:30	bis2chloroisoproethe	ppb	<5.000
10/27/2011	9:30	Butylbenzylphthalate	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	10:30	NO3+NO2	ppm-N	1.01
10/27/2011	10:30	NO3+NO2		1.01
10/27/2011	10:30	Dibromofluoromethane	%	103
10/27/2011	10:30	Total_Phosphorus-P	ppm	1.24
10/27/2011	10:30	2chloroethylvinyleth	ppb	<20.
10/27/2011	10:30	Copper	ppb	21.9
10/27/2011	10:30	Fecal	MPN/100 ml	>240,000.
10/27/2011	10:30	Cadmium	ppb	<2.50
10/27/2011	10:30	Phenol-d5	%	32
10/27/2011	10:30	Ammonia	ppm-N	3.72
10/27/2011	10:30	2-Fluorophenol	%	38
10/27/2011	10:30	Cyanide	ppb	<4.00
10/27/2011	10:30	Silver	ppb	<4.00
10/27/2011	10:30	Oil_and_Grease	ppm	4.76
10/27/2011	10:30	Aluminum	ppb	485
10/27/2011	10:30	Arsenic		<5
10/27/2011	10:30	Selenium		<5
10/27/2011	10:30	Methylene Chloride	ppb	<50.
10/27/2011	10:30	124-Trichlorobenzene	ppb	<5.000
10/27/2011	10:30	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	10:30	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	10:30	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	10:30	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	10:30	246-Trichlorophenol	ppb	<5.000
10/27/2011	10:30	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	10:30	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	10:30	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	10:30	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	10:30	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	10:30	2-Chloronaphthalene	ppb	<5.000
10/27/2011	10:30	2-Chlorophenol	ppb	<5.000
10/27/2011	10:30	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	10:30	2-Nitrophenol	ppb	<5.000
10/27/2011	10:30	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	10:30	4Bromophenphenether	ppb	<5.000
10/27/2011	10:30	4Chloro3methylphenol	ppb	<5.000
10/27/2011	10:30	4Chlorophenphenether	ppb	<5.000
10/27/2011	10:30	4-Nitrophenol	ppb	<5.000
10/27/2011	10:30	Acenaphthene	ppb	<5.000
10/27/2011	10:30	Acenaphthylene	ppb	<5.000
10/27/2011	10:30	Anthracene	ppb	<5.000
10/27/2011	10:30	Benzidine	ppb	<5.000
10/27/2011	10:30	Benzo(a)anthracene	ppb	<5.000
10/27/2011	10:30	Benzo(a)pyrene	ppb	<5.000
10/27/2011	10:30	Benzo(b)fluoranthene	ppb	<5.000
10/27/2011	10:30	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	10:30	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	10:30	bis2chloroethoxymeth	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	13:30	Lead	ppb	<10.0
10/27/2011	13:30	Nickel	ppb	<10.0
10/27/2011	13:30	Bromomethane	ppb	<100.
10/27/2011	13:30	Chloroethane	ppb	<100.
10/27/2011	13:30	Chloromethane	ppb	<100.
10/27/2011	13:30	4-Bromofluorobenzene	%	100
10/27/2011	13:30	Toluene-d8	%	103
10/27/2011	13:30	Dibromofluoromethane	%	107
10/27/2011	13:30	TKN	ppm-N	1.27
10/27/2011	13:30	Copper	ppb	12.8
10/27/2011	13:30	Aluminum	ppb	146
10/27/2011	13:30	Nitrate		1.8279
10/27/2011	13:30	NO3+NO2	ppm-N	1.85
10/27/2011	13:30	NO3+NO2		1.85
10/27/2011	13:30	2chloroethylvinyleth	ppb	<20.
10/27/2011	13:30	Fecal	MPN/100 ml	240000
10/27/2011	13:30	Cadmium	ppb	<2.50
10/27/2011	13:30	Phenol-d5	%	29
10/27/2011	13:30	Mercury	ppt	3.05
10/27/2011	13:30	Iron	ppb	312
10/27/2011	13:30	2-Fluorophenol	%	35
10/27/2011	13:30	TSS	ppm	4
10/27/2011	13:30	Oil_and_Grease	ppm	<4.0
10/27/2011	13:30	Cyanide	ppb	<4.00
10/27/2011	13:30	Silver	ppb	<4.00
10/27/2011	13:30	Zinc	ppb	40.8
10/27/2011	13:30	Arsenic		<5
10/27/2011	13:30	Selenium		<5
10/27/2011	13:30	Methylene Chloride	ppb	<50.
10/27/2011	13:30	124-Trichlorobenzene	ppb	<5.000
10/27/2011	13:30	1,2-Dichlorobenzene	ppb	<5.000
10/27/2011	13:30	12-Diphenylhydrazine	ppb	<5.000
10/27/2011	13:30	1,3-Dichlorobenzene	ppb	<5.000
10/27/2011	13:30	1,4-Dichlorobenzene	ppb	<5.000
10/27/2011	13:30	246-Trichlorophenol	ppb	<5.000
10/27/2011	13:30	2,4-Dichlorophenol	ppb	<5.000
10/27/2011	13:30	2,4-Dimethylphenol	ppb	<5.000
10/27/2011	13:30	2,4-Dinitrophenol	ppb	<5.000
10/27/2011	13:30	2,4-Dinitrotoluene	ppb	<5.000
10/27/2011	13:30	2,6-Dinitrotoluene	ppb	<5.000
10/27/2011	13:30	2-Chloronaphthalene	ppb	<5.000
10/27/2011	13:30	2-Chlorophenol	ppb	<5.000
10/27/2011	13:30	2Methyl46dinitrophen	ppb	<5.000
10/27/2011	13:30	2-Nitrophenol	ppb	<5.000
10/27/2011	13:30	33-Dichlorobenzidine	ppb	<5.000
10/27/2011	13:30	4Bromophenphenether	ppb	<5.000
10/27/2011	13:30	4Chloro3methylphenol	ppb	<5.000
10/27/2011	13:30	4Chlorophenphenether	ppb	<5.000

All samples are from CSO Wet Weather Overflow at Bucklin Brook (NBC CSO # 218)

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	9:30	Chrysene	ppb	<5.000
10/27/2011	9:30	Dibenzoahanthracene	ppb	<5.000
10/27/2011	9:30	Diethylphthalate	ppb	<5.000
10/27/2011	9:30	Dimethylphthalate	ppb	<5.000
10/27/2011	9:30	di-n-butylphthalate	ppb	<5.000
10/27/2011	9:30	Di-n-octylphthalate	ppb	<5.000
10/27/2011	9:30	Fluoranthene	ppb	<5.000
10/27/2011	9:30	Fluorene	ppb	<5.000
10/27/2011	9:30	Hexachlorobenzene	ppb	<5.000
10/27/2011	9:30	Hexachlorobutadiene	ppb	<5.000
10/27/2011	9:30	Hexachloroethane	ppb	<5.000
10/27/2011	9:30	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	9:30	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	9:30	Isophorone	ppb	<5.000
10/27/2011	9:30	Naphthalene	ppb	<5.000
10/27/2011	9:30	Nitrobenzene	ppb	<5.000
10/27/2011	9:30	Nnitrosodimethylamin	ppb	<5.000
10/27/2011	9:30	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	9:30	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	9:30	Pentachlorophenol	ppb	<5.000
10/27/2011	9:30	Phenanthrene	ppb	<5.000
10/27/2011	9:30	Phenol	ppb	<5.000
10/27/2011	9:30	Pyrene	ppb	<5.000
10/27/2011	9:30	Ammonia	ppm-N	5.49
10/27/2011	9:30	Selenium		6.1
10/27/2011	9:30	Aluminum	ppb	610
10/27/2011	9:30	Nitrobenzene-d5	%	63
10/27/2011	9:30	2-Fluorobiphenyl	%	72

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	10:30	bis2chloroethylether	ppb	<5.000
10/27/2011	10:30	bis2chloroisoproethe	ppb	<5.000
10/27/2011	10:30	bis2ethylhexylphthal	ppb	<5.000
10/27/2011	10:30	Butylbenzylphthalate	ppb	<5.000
10/27/2011	10:30	Chrysene	ppb	<5.000
10/27/2011	10:30	Dibenzoahanthracene	ppb	<5.000
10/27/2011	10:30	Diethylphthalate	ppb	<5.000
10/27/2011	10:30	Dimethylphthalate	ppb	<5.000
10/27/2011	10:30	di-n-butylphthalate	ppb	<5.000
10/27/2011	10:30	Di-n-octylphthalate	ppb	<5.000
10/27/2011	10:30	Fluoranthene	ppb	<5.000
10/27/2011	10:30	Fluorene	ppb	<5.000
10/27/2011	10:30	Hexachlorobenzene	ppb	<5.000
10/27/2011	10:30	Hexachlorobutadiene	ppb	<5.000
10/27/2011	10:30	Hexachloroethane	ppb	<5.000
10/27/2011	10:30	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	10:30	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	10:30	Isophorone	ppb	<5.000
10/27/2011	10:30	Naphthalene	ppb	<5.000
10/27/2011	10:30	Nitrobenzene	ppb	<5.000
10/27/2011	10:30	Nnitrosodimethylamin	ppb	<5.000
10/27/2011	10:30	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	10:30	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	10:30	Pentachlorophenol	ppb	<5.000
10/27/2011	10:30	Phenanthrene	ppb	<5.000
10/27/2011	10:30	Phenol	ppb	<5.000
10/27/2011	10:30	Pyrene	ppb	<5.000

Sample Date	Sample Time	Parameter	Units	Result
10/27/2011	13:30	4-Nitrophenol	ppb	<5.000
10/27/2011	13:30	Acenaphthene	ppb	<5.000
10/27/2011	13:30	Acenaphthylene	ppb	<5.000
10/27/2011	13:30	Anthracene	ppb	<5.000
10/27/2011	13:30	Benzidine	ppb	<5.000
10/27/2011	13:30	Benzo(a)anthracene	ppb	<5.000
10/27/2011	13:30	Benzo(a)pyrene	ppb	<5.000
10/27/2011	13:30	Benzo(b)fluoranthene	ppb	<5.000
10/27/2011	13:30	Benzo(g,h,i)perylene	ppb	<5.000
10/27/2011	13:30	Benzo(k)fluoranthene	ppb	<5.000
10/27/2011	13:30	bis2chloroethoxymeth	ppb	<5.000
10/27/2011	13:30	bis2chloroethylether	ppb	<5.000
10/27/2011	13:30	bis2chloroisoproethe	ppb	<5.000
10/27/2011	13:30	bis2ethylhexylphthal	ppb	<5.000
10/27/2011	13:30	Butylbenzylphthalate	ppb	<5.000
10/27/2011	13:30	Chrysene	ppb	<5.000
10/27/2011	13:30	Dibenzoahanthracene	ppb	<5.000
10/27/2011	13:30	Diethylphthalate	ppb	<5.000
10/27/2011	13:30	Dimethylphthalate	ppb	<5.000
10/27/2011	13:30	di-n-butylphthalate	ppb	<5.000
10/27/2011	13:30	Di-n-octylphthalate	ppb	<5.000
10/27/2011	13:30	Fluoranthene	ppb	<5.000
10/27/2011	13:30	Fluorene	ppb	<5.000
10/27/2011	13:30	Hexachlorobenzene	ppb	<5.000
10/27/2011	13:30	Hexachlorobutadiene	ppb	<5.000
10/27/2011	13:30	Hexachloroethane	ppb	<5.000
10/27/2011	13:30	Hexaclcyclopentadien	ppb	<5.000
10/27/2011	13:30	Indeno(123-cd)pyrene	ppb	<5.000
10/27/2011	13:30	Isophorone	ppb	<5.000
10/27/2011	13:30	Naphthalene	ppb	<5.000
10/27/2011	13:30	Nitrobenzene	ppb	<5.000
10/27/2011	13:30	Nnitrosodimethylamin	ppb	<5.000
10/27/2011	13:30	Nnitrosodinpropylami	ppb	<5.000
10/27/2011	13:30	Nnitrosodiphenylamin	ppb	<5.000
10/27/2011	13:30	Pentachlorophenol	ppb	<5.000
10/27/2011	13:30	Phenanthrene	ppb	<5.000
10/27/2011	13:30	Phenol	ppb	<5.000
10/27/2011	13:30	Pyrene	ppb	<5.000
10/27/2011	13:30	Nitrobenzene-d5	%	60
10/27/2011	13:30	P-Terphenyl-d14	%	62
10/27/2011	13:30	2-Fluorobiphenyl	%	70
10/27/2011	13:30	246-Tribromophenol	%	85