Narragansett Bay Commission
2022 Data Report

Prepared by the Staff of the
Environmental Monitoring and
Technical Analysis & Compliance Sections

December 15, 2023

Acknowledgements

This majority of this report has been written and prepared by Eliza Moore, Environmental Scientist III, Abigail Ernest-Beck, Environmental Scientist II, and Nicole Skyleson, Environmental Scientist II of the TAC section under the general direction of James Kelly III, Environmental Science Technical Advisor and Walter Palm Director of Environmental Science and Compliance (ESC).

This report is a summation of the collective efforts by the Environmental Monitors and Monitoring Field Supervisors that collected 28,820 samples during 2022. The NBC Laboratory staff analyzed all the samples collected by the EM section. In total, during 2022, the Laboratory generated 108,295 analyses from the samples it received. A special acknowledgement and thank you to the NBC EM, Laboratory, TAC, and other staff and interns that made this report possible. It represents the countless hours of processing, compiling, analyzing, and interpreting all the data by TAC Environmental Scientists, EM Staff, Laboratory Staff, as well as data entry and general assistance by clerical staff.

The NBC also acknowledges the support given by the NBC Chairman, Commissioner Vincent J. Mesolella; the Board of Commissioners; the Executive Director, Laurie Horridge; and all the NBC Directors.

Narragansett Bay Commission

Figures

Tables

The Narragansett Bay Commission

The NBC owns and operates the state's two largest wastewater treatment facilities (WWTFs) and provides quality wastewater collection and treatment services to about 390,000 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.

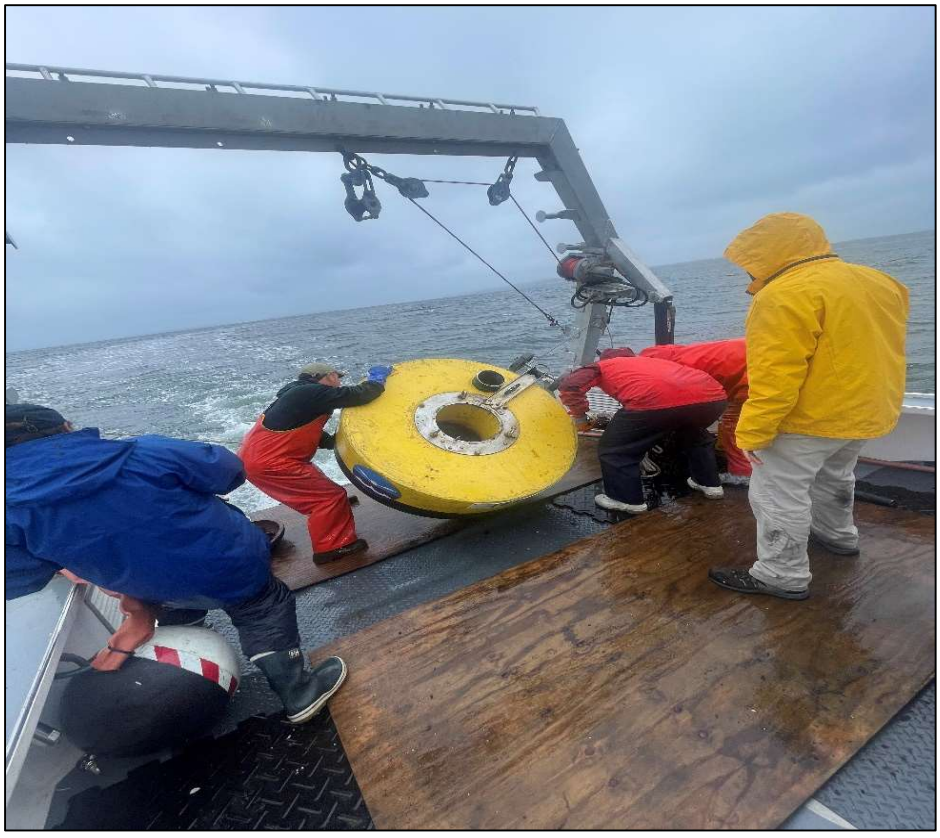
The Narragansett Bay Commission (NBC) was created in 1980 by the Rhode Island General Assembly to reduce the amount of pollutants Providence's Field's Point WWTF was discharging into Narragansett Bay and its tributaries. At that time, nearly 65 million gallons of untreated sewage flowed into Rhode Island's 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.

The NBC acquired the facility from the City of Providence in 1982 and with statewide voter approval of an $87.7 million bond referendum, transformed this dilapidated facility, the third oldest WWTF in the nation, into a state-of-the-art award-winning facility. As the largest secondary WWTF in Rhode Island and the second largest in New England, the Field's Point WWTF provides preliminary and primary treatment for up to 200 million gallons per day (MGD) of wastewater, and advanced secondary treatment with nitrification and denitrification for up to 77 MGD. In 2022, the average daily flow to the facility was 42.4 MGD.

In 1992, the Rhode Island General Assembly expanded the NBC's mission by placing it in charge of the Bucklin Point WWTF in East Providence. In 1999, supervisory management of this plant was privatized to Professional Services Group (PSG) and was managed by Suez Environment/United Water. On July 1, 2015, NBC resumed full management and operations of the facility. Over the last twenty years, the Bucklin Point plant has undergone major upgrades to include new screening and grit facilities, wet weather facilities capable of providing primary treatment and disinfection, a new fine bubble-diffusion aeration system, nutrient removal facilities, and ultraviolet (UV) disinfection of wastewater, reducing the use of chemicals to disinfect and dechlorinate wastewater prior to discharge. The Bucklin Point facility is designed to provide preliminary and primary treatment for up to 116 MGD and advanced secondary treatment with nitrification and denitrification for up to 46 MGD. In 2022, the average daily flow to the facility was 17.5 MGD.

Environmental Monitoring 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 WWTF 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 EMDA section was created within the NBC Planning, Policy and Regulation Division, now known as the Environmental Science and Compliance (ESC) Division. Over the years, the EMDA section continued to evolve, and in 2019 a Division reorganization resulted in a name change to the Environmental Monitoring (EM) section. The EM section remains responsible not only for industrial and manhole monitoring activities, but for all aspects of environmental monitoring for the NBC, outlined further below. EM staff also conducts many special sampling initiatives to evaluate the effectiveness of new technologies and to better understand the potential impacts of the NBC operations on the receiving waters. To this end, the EM section works closely with the Technical Analysis and Compliance (TAC) section, formed during the same Division reorganization, which is responsible for developing special study procedures, reviewing existing protocols, and analyzing the monitoring data for trends. In 2002, the NBC was awarded



Bullock Reach buoy deployment in the Providence River estuary.

a grant from the United States Environmental Protection Agency (EPA) to develop a website to provide real-time data of the upper Narragansett Bay receiving waters of the NBC plant outfalls. A fixed-site continuous water quality monitoring station was constructed at an abandoned pier at Phillipsdale Landing in East Providence in the Seekonk River estuary, and a state-of-the-art monitoring buoy was acquired and deployed at Bullock Reach, just north of Conimicut Point in the Providence River estuary. In 2005, these sites became permanently funded by the NBC. These sites continue to provide invaluable data to the Rhode Island Department of Environmental Management (DEM) and the scientific community. For example, NBC's buoy data, which contains high-resolution measurements of Bay oxygen levels, played a key role in statewide efforts to document and understand the August 2003 fish kills associated with hypoxic (low oxygen) events in Narragansett Bay. To maximize the utility of the NBC monitoring program to area stakeholders, the NBC frequently works with members of the DEM, several universities, and environmental groups, and is also a valuable contributing member of the Rhode Island Environmental Monitoring Collaborative, an organization formed by the Governor in 2004. The NBC coordinates monitoring activities with other agencies performing monitoring statewide. Therefore, as water quality compliance issues become more complex, the NBC EM and TAC sections' roles in environmental monitoring and compliance issues continues to expand.

The NBC EM, TAC, and Laboratory sections work together in the Water Quality Science Building (WQSB), built in 2016 and featuring state-of-the-art laboratory space to continue and expand NBC's numerous sampling and data analysis duties. The WQSB can accommodate almost all sampling, monitoring, and analysis needs of the NBC.

The EM section continued to perform the following monitoring activities throughout 2022:

- Daily sampling of NBC's two WWTFs to satisfy Rhode Island Pollutant Discharge Elimination System (RIPDES) requirements;
- Sampling of each Significant Industrial User twice annually to satisfy and exceed EPA Pretreatment Program mandates.
- Weekly monitoring of select surveillance manholes to satisfy EPA mandates;
- Weekly monitoring of select sanitary manholes to obtain data required for local limits development;
- Weekly sampling of 23 sites on urban rivers in NBC's service area for bacteria analysis;
- Sampling of 20 locations in the estuarine NBC receiving waters (i.e., the Providence and Seekonk Rivers) for bacteria analysis every two weeks;
- Sampling of 15 sites on rivers entering the upper Bay from Massachusetts and Rhode Island for nutrients once to twice per month;
- Sampling of 8 locations at the surface and bottom of the Providence and Seekonk Rivers for nutrients once to twice per month;
- Weekly mapping of the Providence and Seekonk Rivers for surface chlorophyll, dissolved oxygen (DO), temperature, and salinity;
- Sampling at Bullock Reach for qualitative and quantitative phytoplankton analysis;
- Video surveys along three permanent transects in the Providence River to track changes in benthic algae growth, species occurrences, and other indicators of environmental health several times per year;

- 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 Fixed-Site Water Quality Monitoring buoy, land-based dock station, and special study stations to ensure accurate data for state partners and the public.

The NBC EM section has always done an excellent job of implementing monitoring initiatives. This annual report serves as a streamlined public dissemination of all 2022 EM monitoring data. Previous reports, back to 2007, are publicly available on the NBC website.

Field's Point and Bucklin Point WWTF Sample Collection Methodology

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 (EM) 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 (WWTFs) are effectively meeting operational and Rhode Island Pollutant Discharge Elimination System (RIPDES) permit requirements. An extensive sampling schedule employing composite and grab samples within the two WWTFs 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 these 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 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 data are necessary to quickly identify potential problems within the plants and to routinely reassess the removal efficiency of pollutants. All sample collection, preservation, storage, and analyses at the Field's Point and Bucklin Point WWTFs are performed with strict adherence to United States Environmental Protection Agency (EPA) protocols.

The 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. EM works in conjunction with the Pretreatment, Laboratory, Operations, Engineering, and Technical Analysis and Compliance (TAC) 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 sent off-site for disposal or as effluent discharged to Narragansett Bay. In support of NBC's mission and RIDPES requirements, the EM section collected 28,820 samples and the NBC laboratory conducted 108,295 analyses during 2022. WWTF sampling data for 2022 are attached and can be found in Tables 1–44. Table numbers are referenced in each section below.

Collection of Samples at Field's Point and Bucklin Point

Samples collected to evaluate the WWTF processes 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°C. Grab samples are discrete samples collected at particular time periods but placed into separate sample bottles and analyzed individually. At

Field's Point, samples are assigned to a sample date based on the "flow-day," which is generally from 07:00 AM to 06:59 AM the following day, except as described in the following paragraph. Composite sampling therefore includes some sample water from the following calendar day. At Bucklin Point, the sampled date corresponds to the calendar day for regulatory reporting.

Monitoring Field Supervisor demonstrating operation of refrigerated autosampler to CCRI students

The differences in sampling between Field's Point and Bucklin Point mainly exist in the influent sampling at the interceptors into the facility and in 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. When influent samples are collected at Field's Point for metals, cyanide, or nutrient analysis, the commencement of effluent sample collection is delayed by 12 hours from the start time of influent sampling, 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 WWTF. This delay in sampling for the influent and effluent with allowance for hydraulic detention time is required for the metals and cyanide samples according to the RIPDES permits. For carbonaceous biochemical oxygen demand (CBOD) and total suspended solids (TSS), the influent and effluent samples are collected without any time offset, meaning the ISCO samplers that collect the wastewater for the influent sampling and effluent sampling are programmed to collect a 24-hour composite sample at the same times. Bucklin Point influent samples are collected on a time-paced basis from the two interceptors that feed the facility, the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI). Composite samples are collected from both

interceptors and mixed flow proportionally. Effluent samples are collected 17 hours after the start of the influent with the goal of sampling the same parcel of water 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 River estuary or Seekonk River estuary. 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 sections provide more detailed descriptions of composite sampling at both WWTFs.

Composite Sampling at Field's Point

Composite sampling at Field's Point is conducted on a time-paced basis. All composite autosamplers sample the waste stream at 30-minute intervals and collect a volume of 100 mL. The samples are combined into 24-hour composites of the wastewater at the sampling location. EM uses refrigerated ISCO 4700 and ISCO 5800 programmable autosamplers throughout Field's Point. 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 maintained at 4°C (acceptable range is 1-6°C) and temperature of each sampler is documented three times per day by EM staff.

Two types of suction tubing are used for composite sampling at the Field's Point WWTF. Influent and effluent peristaltic samplers collecting trace metals samples use suction tubes 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-inch in outer diameter and ⅜-inch in inner diameter. Sampler suction lines are changed semi-annually, and pump tubing is changed every month. To improve cyanide data, starting August 2020, the suction line in the effluent cyanide sampler is replaced monthly. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the autosamplers monthly. This procedure takes place at the autosampler collection site. The Teflon® tubing is also acid-washed monthly.

The EPA released a report in 1994 assessing 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. Following the report, the EPA developed a series of recommended techniques for clean sampling that EM follows specifically. These clean sampling methods are specifically used to reduce contamination in autosamplers located at the influent/grit building and final effluent that collect wastewater analyzed for trace metals and nutrients. 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 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. The autosamplers sample the waste stream at 30-minute intervals and take a volume of 100 mL. The samples are combined into 24-hour composites of the wastewater at a sampling location.

All autosamplers used at the Bucklin Point WWTF are refrigerated peristaltic pump samplers. Autosamplers used include the ISCO sampler models 4700 and 5800. These samplers are located at BVI, EPI, primary influent, primary effluent, mixed liquor, final effluent, and wet weather effluent. Influent composite samples from the BVI and EPI are combined flow-proportionally and analyzed together for all parameters. Temperatures of the refrigerated samplers are maintained at 4°C (the acceptable range is 1-6°C) and temperature of each sampler is documented three times per day by EM 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 tubes 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-inch in outer diameter and ⅜-inch in inner diameter. Sampler suction lines are changed semi-annually and pump tubing is changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the autosamplers monthly. This procedure takes place at the autosampler 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. The clean sampling 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 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), Carbonaceous BOD (CBOD), and Bacteria Analyses at Field's Point and Bucklin Point

The NBC's RIPDES permits require sampling of TSS and CBOD daily using 24-hour composite samples 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 analysis every morning around 08:00 AM. The NBC Laboratory uses Standard Method 5210-B for CBOD analysis using a Skalar robotic BOD analyzer equipped with YSI dissolved oxygen (DO) probes. TSS analysis is conducted using Standard Method 2540-D-E. Parameters analyzed daily alongside TSS and CBOD include pH, settleable solids, and temperature. Analyses for these parameters adhere to Standard Method

4500-H+B, Standard Method 2540-F, and EPA Method 170.1, respectively. EM staff clean carboys used for TSS and CBOD sample collections in the dishwasher after each use, and carboys are replaced as necessary.

Bacteria sampling at each WWTF includes one effluent grab sample for fecal coliform analysis and two effluent grab samples for enterococci analysis per day. EM staff collect a fecal coliform and enterococci sample at 08:00 AM; operations staff also collect an enterococci sample in the time frame of 03:00-05:00 AM. The final values reported for enterococci and fecal coliform is a geometric mean of all grab samples collected during the day which include any duplicate samples or extra samples collected that day. Duplicate samples are collected and analyzed for fecal coliform and enterococci once per week.

The procedure for bacteria sampling at both WWTFs requires staff to wear new, clean nitrile gloves at all times during sample collection. Sterile sample bottles are placed in a sampling device (i.e., an open-ended polyvinyl chloride [PVC] cylinder with the bottle held in place by a small screw running through the cylinder body) and lowered six inches below the water surface in the center of the flow stream to collect the sample. At Field's Point, a pellet of sodium thiosulfate in the bottle neutralizes residual chlorine if present. The sodium thiosulfate tablet is not needed at Bucklin Point since disinfection is achieved via UV disinfection. Once filled, the bottle is sealed, labeled, and placed in a cooler with ice for immediate transport to the NBC Laboratory. The 03:00-05:00 AM sample is sealed, labeled, and placed in a sample refrigerator until the morning pickup by EM staff. At the Laboratory, samples are analyzed for fecal coliform using Standard Method 9221-E A-1, fecal coliform by multiple tube fermentation, and for enterococci using the IDEXX Enterolert Method 1600 with Quanti-Tray 2000 enumeration system. Split sample results showed good agreement; results from both methods were combined into a single result for each sample prior to reporting.

Field's Point and Bucklin Point TSS and CBOD daily data and enterococci and fecal coliform daily geometric mean data for 2022 can be found in the attached Tables 1 and 2, respectively. Enterococci and fecal coliform individual sample results can be found in Table 3 (Field's Point) and Table 4 (Bucklin Point).

Sample Collection for Trace Metals and Cyanide Analyses at Field's Point and Bucklin Point

Toxic pollutant monitoring requirements include 24-hour composite sample collections for the analysis of aluminum, arsenic, cadmium, hexavalent chromium, copper, lead, nickel, zinc, and available cyanide at Field's Point and aluminum, cadmium, hexavalent chromium, copper, lead, nickel, zinc, and available cyanide at Bucklin Point. Metals and cyanide measurements are required twice weekly at both plants except for zinc at Field's Point and aluminum, cadmium, hexavalent chromium, and lead at each plant, which are required once per month. Other metals that are analyzed but are not required by the RIPDES permits include arsenic and tin at Bucklin Point, and chromium, iron, mercury, molybdenum, selenium, and silver at both plants. Total cyanide is analyzed using EPA Method 335.4, while available cyanide is analyzed via Standard Method 4500-CN-G on a Lachat Quikchem 8500 Series II Flow Injection Analyzer. Metals are analyzed on an Inductively Coupled Plasma Mass Spectrometer (ICPMS), using EPA Method

200.8. Hexavalent chromium is analyzed on a Hach DR 3900 Spectrophotometer, using Hach Method 8023. Mercury is analyzed on a Cetac M-7600 Quicktrace Mercury Analyzer according to EPA Method 245.7. Metals and cyanide data for 2022 can be found in the attached Tables 5-8 (Field's Point) and 9-12 (Bucklin Point).

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 autosamplers collect discrete samples for cyanide 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 per week. At both WWTFs, nine of the twelve grab samples from each 24-hour sampling period are composited into a 2-liter high-density polyethylene (HDPE) bottle. At Bucklin Point, composite samples of nine separate grab samples for cyanide at the influent are collected from both interceptors, the BVI and EPI; samples from these interceptors are then mixed flow-proportionally. The pH is tested with indicator strips to ensure it is greater than 12 standard units (s.u.) before compositing. The composite is poured off into a 500-mL brown HDPE bottle. Composite samples are checked for sulfides and chlorine residual using lead acetate and potassium iodide indicator paper, respectively, as these chemicals can interfere with cyanide measurements.

For influent and final effluent autosamplers that collect wastewater analyzed for trace metals, a special clean sampling method is used to reduce contamination, as mentioned above. 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 10- or 15-liter polyethylene carboy is used to collect composite samples. Carboy cleaning procedures and quality assurance measures are in place to ensure 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, in conjunction with the samples collected for cyanide. 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 deionized (DI) water to a cleaned carboy, swirling the DI water in the carboy, and letting it sit overnight refrigerated. The DI water is then poured off into pre-labeled, pre-cleaned containers for analysis of parameters of interest.

Field blanks are taken each time a sample is collected 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 of that DI water using sampling and preservation procedures identical to those used in collecting the mercury sample.

Sample Collection for Nutrient Analyses at Field's Point and Bucklin Point

Permit requirements for nutrients were modified by the DEM in 2005 to reduce the amount of nitrogen discharged to Narragansett Bay. The permit requirements mandated 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 since August 1, 2005. Seasonal effluent discharge limits of 5.0 mg/L for total nitrogen (TN) were proposed in the 2005 RIPDES permit modification. In June 2006, a consent agreement was signed, which imposed a seasonal interim effluent TN permit limit of

18.2 mg/L at Field's Point and 10.0 mg/L for Bucklin Point. In May 2009, the DEM modified the consent agreement for Bucklin Point to impose a seasonal interim effluent TN limit of 8.5 mg/L. The NBC worked diligently to maximize nitrogen removal at Bucklin Point and achieved significant reductions in nitrogen loading. However, the NBC determined that additional modifications were required to achieve compliance with the TN limit of 5.0 mg/L as set forth in the consent agreement. Major facility upgrades and renovations were necessary to implement biological nutrient removal (BNR) technology at each plant. Field's Point completed these upgrades in 2013, and the consent agreement effluent TN limit of 5.0 mg/L went into effect on May 1st, 2014; Bucklin Point completed upgrades and began operations under this limit on July 14th, 2014.

Nutrients are analyzed from 24-hour composite influent and effluent samples, collected three days per week. Sample collection carboys are dishwasher-cleaned, acid-washed, and DI water-rinsed before they are placed at their sampling locations. Equipment blanks are collected every other month using DI water from the acid-washed carboys and pump tubing to verify the absence of sample contamination.

All nutrient samples are analyzed by the NBC Laboratory using a Lachat Quikchem 8500 Series II Flow Injection Analyzer. The nutrients analyzed are TKN, TN, nitrite, nitrate, ammonia, and total phosphorus. Ammonia-nitrogen and organic-nitrogen comprise the TKN in a sample. TKN is analyzed using EPA Method 351.2, while TN, which includes both TKN and nitrate-nitrite, is determined via Standard Method 4500-NB. Nitrite+nitrate and nitrate are determined via EPA Method 353.2; nitrate is determined by difference from a combined nitrite+nitrate measurement and a nitrite measurement. Ammonia is analyzed using EPA Method 350.1. Total phosphorus is analyzed via EPA Method 365.4 and is the only nutrient parameter analyzed just once weekly. The NBC's Laboratory continues to update their techniques and equipment to ensure high-quality data; the nutrient autoanalyzers currently online and in use were acquired in 2017 and 2018.

Both the Bucklin Point and Field's Point facilities remained in compliance with the monthly average 5.0 mg/L TN permit limit throughout the 2022 May through October season. The seasonal effluent TN averages for Field's Point and Bucklin Point were 2.78 mg/L and 2.60 mg/L, respectively. WWTF nutrients data for 2022 can be found in Tables 13 and 14.

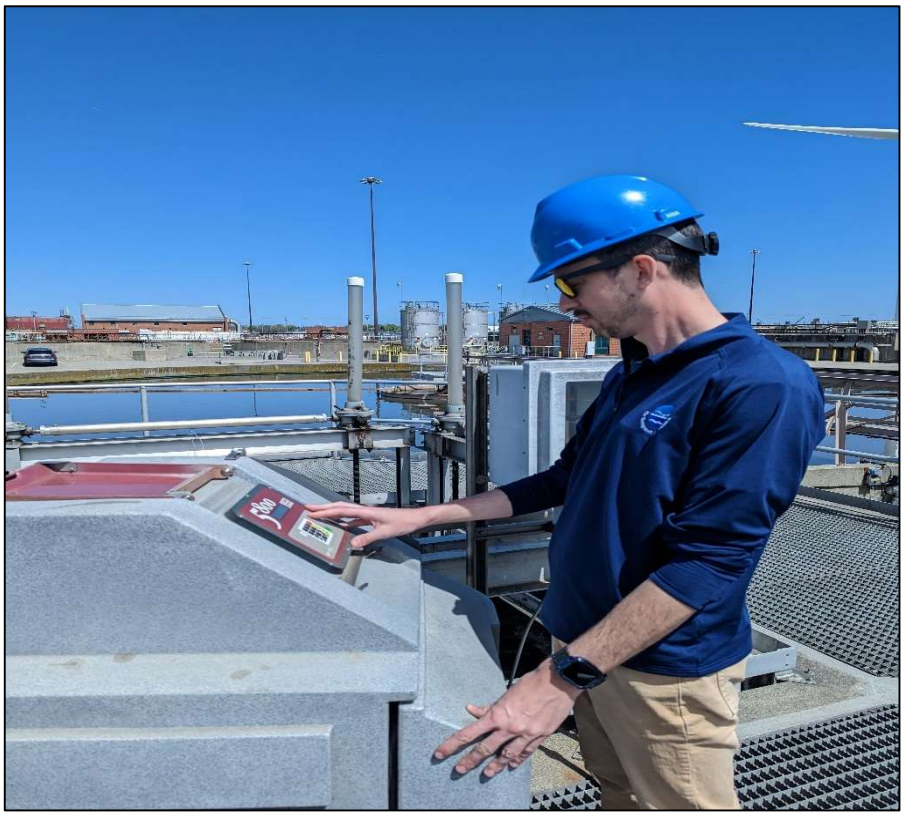
Sample Collection for Oil and Grease Analysis at Field's Point and Bucklin Point

The NBC RIPDES permits require effluent sampling for oil and grease once per month at each facility, via three grab samples collected over the course of a 24-hour period, with one grab sample collected per shift. The grab samples are analyzed separately and the maximum and average results are reported on the monthly Discharge Monitoring Report (DMR), though the RIPDES permit does not set a discharge limit. The NBC conducts similar sampling of the influent for oil and grease at each facility as well, though these data are not reported on the monthly DMR.

Oil and grease samples are collected using a pre-cleaned glass bottle, which is labeled with collection time and date, site, and the parameter to be analyzed. The cap is removed, taking care to avoid contamination, and the sampler is lowered just below the surface of the water at the effluent sampling location. The bottle is filled and then re-capped. Oil and grease grab samples are preserved with hydrochloric acid to a pH less than 2 s.u. by EM staff as soon as possible after collection. These samples are then brought to the NBC Laboratory for analysis of hexane-extractable materials using EPA Method 1664B. Oil and grease average results for 2022 can be found in the attached Table 15.

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

The NBC has been studying effluent dissolved metals at both WWTFs since 2000. During 2022, monthly Field's Point and Bucklin Point effluent samples were collected and analyzed for dissolved metals. The NBC and DEM use these data to better understand the fate, effect, and physical partitioning of metals discharged from the WWTFs. Metals in the dissolved form are more readily absorbed by marine life than metals associated with particles, therefore, the EPA and DEM have established fresh and saltwater water quality criteria for dissolved metals concentrations. However, WWTF effluent discharges are permitted for total metals only.



Environmental monitor checking autosampler programming at Field's Point WWTF.

Therefore, the DEM must use a "metal translator conversion factor" to set appropriate total metals limits for a WWTF, based upon the dissolved metals water quality criteria. By conducting monthly sampling for both total and dissolved metals, the NBC will be able to better assess the phase partitioning of metals in its effluent and in the receiving waters to inform the use of metal translators.

Effluent dissolved metals samples are split from the effluent total metals composite sample on one day per month, typically the first Tuesday of each month. The effluent total metals sample is a 24-hour composite sample taken after treatment of the wastewater is complete, just before the treated water is discharged to the Providence River estuary (Field's Point) or Seekonk River estuary (Bucklin Point). As part of a quality assurance plan, the NBC Laboratory analyzes laboratory equipment blank samples (DI water) along with the dissolved metals to ensure accurate results. Dissolved metals samples are filtered with a 0.45-µm pore diameter membrane filter prior to preservation and digestion and are analyzed according to EPA Method 200.8 via ICPMS. Effluent dissolved metals results for 2022 can be found in Tables 16 and 17 for Field's Point and Bucklin Point, respectively.

Collection of Final Effluent for Quarterly Bioassay Analyses

The two NBC WWTFs are required to conduct quarterly bioassay studies to determine whole effluent toxicity (WET) to test organisms. These bioassays use the response of organisms to effluent at varying dilutions to detect and measure the potential impact of substances, wastes, or environmental factors alone or in combination as they exist in the effluent. NBC met the quarterly bioassay sampling frequency requirements during 2022 for both facilities. Effluent samples are collected only in dry weather, defined as no rain for 48 hours prior to or during sampling. These samples are 195-mL composites 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 or CBOD, with sample carboys cleaned in the dishwasher after each use and replaced yearly.

Two bioassay tests are performed as required by the NBC RIPDES permits. An acute toxicity test is conducted to examine survival of test organisms, the mysid shrimp *Americamysis bahia,* in varying concentrations of effluent. The second test is a chronic toxicity test which examines the effect of effluent on fertilization success in eggs of the sea urchin *Arbacia punctulata*. Both tests are conducted in five concentrations of effluent plus a control: 100% effluent, 50% effluent, 25% effluent, 12.5% effluent, and 6.25% effluent. Natural seawater is used for both the control treatment and dilutions of effluent.

Acute toxicity test results are summarized using the LC_{50} and the A-NOEC statistics. The LC_{50} (or lethal concentration, 50%) result is defined as the concentration of wastewater that causes mortality to 50% of the test organisms, *A. bahia*; the permit requirement of 100% or greater is defined as a sample which is composed of 100% effluent. 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 and is monitored though there is no permit requirement. The chronic test results for *A. punctulata* are summarized using the C-NOEC or Chronic-No

Observed Effect Concentration statistic. 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 WWTF's 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 estuarine organisms. The WET tests are an attempt to determine the synergistic impact of NBC effluent on organisms in the receiving waters. All bioassay analyses are performed by third party laboratories contracted by NBC and are conducted in accordance with protocols listed in the most recent edition of the EPA document: Cornelius I. Weber, et al., 1991, Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. Bioassay data results for 2022 can be found in the attached Tables 18 and 19 for Field's Point and Bucklin Point, respectively.

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

Sludge from both the Field's Point and Bucklin Point WWTFs is removed and disposed of by Synagro Northeast under contract with the NBC. As part of this contract, the NBC conducts sampling and analysis of the sludge (i.e., filter cake) throughout the year. Sludge samples are collected daily for analysis by the NBC Laboratory. Grab samples are taken from each truck load and kept in whirl-pak bags labeled with the Bill of Lading number. At Field's Point, EM staff pour part of each sample into a snap-lid container for delivery to the laboratory by 08:00 AM the next day. These containers are disposed of after a single use. At the Bucklin Point WWTF, the whirl-pak bag is stored in the refrigerator until EM picks up the sample the next morning. EM staff mix the sample and pour off approximately 500 mL into a smaller container to bring to the laboratory for analysis. Sludge from each plant and scum from Field's Point are analyzed for total solids (TS) and volatile solids (VS), using Standard Method 2540-B. Sludge samples are also analyzed one to two times per month for metals and cyanide. Sludge samples for all metals are analyzed using EPA Method 200.7 via ICP-OES, except for mercury, which is analyzed by a contract laboratory using EPA Method 7471B (SW 846). Cyanide analysis is also completed by a contract laboratory, using Method SW9010C. Results from NBC WWTF sludge sampling described above for 2022 can be found in attached Tables 20-25.

In addition to the daily sample analysis by the NBC Laboratory, samples of filter cake from each WWTF are sent out to a contract laboratory quarterly for further analysis as required by Synagro Northeast. Quarterly analyses (annual for some parameters) in 2022 and the contract laboratory methods used (in parentheses) included thirteen metals, eight TCLP metals, and phosphorus (EPA 6010C); mercury (EPA 7471B); TCLP mercury (EPA 7470A); percent total solids (gravimetric); percent fixed solids and percent volatile solids (SM 2540-G); corrosivity/pH (SM 4500-H-B); paint filter/free liquids (EPA 9095B); and PCBs (EPA 8082A). Additional analyses required once annually included TCLP VOCs (EPA 8260C); TCLP Semi-VOCs (EPA 8270D-sim); TCLP pesticides (EPA 8081B); TCLP herbicides (EPA 8151A); flash point/ignitibility (EPA 1010A-Mod); reactive sulfide and reactive cyanide (SM REACTIVITY); and percent total sulfur (EPA 6010C). These annual analyses are typically conducted on the first quarterly sample of the year. Results of the quarterly and annual filter cake testing by the contract laboratory can be found in Table 26.

Sample Collection for EPA Priority Pollutants: Volatile Organic Compounds (VOCs)

Grab samples are collected monthly at the influent and effluent of each WWTF to be analyzed for 36 volatile organic compounds (VOCs), a subset of the EPA Priority Pollutants. A clean glass container is used to collect a grab sample. The sample is checked for the presence of chlorine using a potassium iodide test strip. Sodium thiosulfate is added to the samples as necessary to reduce the presence of chlorine. The sample is split into three sets of three Teflon-cap 40-mL vials. The first set of vials is left unpreserved, the second set is preserved to a pH range between 4 and 5 s.u., and the third set is preserved to a pH of <2 s.u. Hydrochloric acid is added dropwise to the preserved vials to attain the appropriate pH. All samples are kept airtight and stored at <6°C following collection. The glass vials can then be analyzed in-house or transported to a contract laboratory for analysis using EPA Method 624.1 via gas chromatography and mass spectrometry. Field's Point and Bucklin Point VOC results for 2022 can be found in the attached Tables 27 and 28, respectively.

Sanitary Manhole Sampling

EPA and RIPDES permit regulations require the NBC Pretreatment Program to periodically reevaluate local discharge limitations. In order to complete this task, the NBC must monitor sanitary manholes to evaluate pollutant loadings from residential sources upstream of any industrial or commercial facilities. These background loadings are outside the realm of regulatory control by the NBC Pretreatment Program; however, NBC must understand these loadings in order to determine acceptable loading limits for industrial users to maintain effective pollutant removal at 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. The NBC began sanitary sewer manhole sampling in 1993, and in 2000, EM began to collect samples using EPA-approved clean sampling techniques. As laboratory detection limits continue to decrease due to improved clean sampling 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.

To collect these samples, automated sampling devices are suspended in the sanitary manholes and are programmed to collect 100 mL of wastewater every fifteen minutes for 24 hours, starting in the early morning on a weekday. The aliquots collect into a 10-liter acid-washed Nalgene® bottle, and the composite sample is later poured off into specified containers for each analysis.

The initial pH of the composite sample is measured and recorded on a chain-of-custody document, and for those parameters that require preservation, the preservative used is marked and the final pH is recorded. After every use, the automated sampling device tubing and container are acid cleaned, rinsed with DI water, and a cleaning blank is produced.

In 2022, BOD, CBOD, TSS, cyanide, aluminum, cadmium, chromium, copper, lead, nickel, molybdenum, silver, zinc, mercury, arsenic, and selenium were measured in both Field's Point and Bucklin Point district sanitary manholes. These parameters were analyzed in accordance with methods for CBOD, TSS, cyanide, and metals mentioned in the Field's Point and Bucklin Point sample collection sections above. Additionally, BOD was analyzed according to Standard Method 5210B using a Skalar robotic BOD analyzer equipped with YSI dissolved oxygen (DO) probes. Please note that sanitary manhole background monitoring for nutrients was discontinued as of November 2020. In addition to informing the calculation of local limits that the NBC

Environmental monitors conduct sanitary manhole sampling.

imposes on its industrial users, sanitary manhole data are essential for providing a point of comparison and screening of collection system data to determine problem areas within the collection system. Sanitary manhole testing results for 2022 can be found in Table 29.

Industrial and Commercial User and Manhole Sampling

The EPA requires that all significant industrial users (SIUs) be sampled at least once every twelve months. The NBC has established a more stringent goal to sample each SIU twice per year and also samples a subset of other industrial and commercial users annually, utilizing the collection and preservation techniques specified in their Wastewater Discharge Permit. The NBC collected 150 sets of industrial and commercial user samples in 2022. Industrial and commercial user data for 2022 can be found in Tables 30A-C. Note that these data are not the sole basis for

determining compliance of industrial and commercial users with NBC Pretreatment requirements. Additional data, including user self-monitoring sample results, are utilized for this purpose though not included in this annual report. The NBC Pretreatment department publishes an annual report each year with all compliance data for all industrial users. This report is available via the NBC's website www.narrabay.com.

For SIU sampling, the automated sampling device tubing and container are acid cleaned, rinsed with DI water, and a cleaning blank is produced after every use. Trip blanks are collected with this type of sampling if the SIU requires metals analysis. The procedure for collecting a trip blank consists of filling a sample bottle with sufficient DI water, preserving it with nitric acid, and transporting it into the field.

Environmental Monitor preserves sample at a Significant Industrial User

Industrial manhole sampling is an additional means to track chemical spills or concentrated discharges, as well as to ensure that industrial users are in compliance with the limits set by the NBC. 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. As with sanitary manhole sampling, autosamplers are programmed to collect samples from each manhole location every fifteen minutes for 24 hours, thereby providing a composited representation of the average discharge over that time period. Autosamplers can dispense 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 checked for sulfides and chlorine residual using lead acetate and potassium iodide indicator paper, respectively, as these chemicals can interfere with cyanide measurements. Samples are checked for pH, though this is considered a coarse estimate since hold-time requirements for this measurement are not met. Such coarse estimates are considered useful for detecting pH extremes (very high or very low), though not for comparison of small-scale variability.

Samples are analyzed for cadmium, chromium, copper, lead, nickel, silver, zinc, and cyanide. Cyanide sample pH is adjusted using sodium hydroxide to a pH above 12 s.u., while metals samples are acidified using trace metal grade nitric acid to a pH of less than 2 s.u. All metals were analyzed by ICP-OES EPA Method 200.7 at the NBC Laboratory, while cyanide is analyzed using EPA Method 335.3 on a Lachat Quikchem 8500 Series II Flow Injection Analyzer. The EPA method in use for cyanide analysis requires samples to be preserved immediately upon collection to prevent cyanide loss, which is impossible with the composite sampling method in use. Despite this, the coarse estimates of cyanide are considered valuable for detecting highly elevated concentrations where they may occur.

Sampling of industrial manholes in 2022 resulted in 246 samples, with 1,939 individual parameter results generated for the two service districts. Industrial manhole sampling data for 2022 can be found in Table 31.

For industrial manhole sampling, the automated sampling device tubing and container are washed with non-phosphate detergent. Field blanks are also collected with manhole sampling. The procedure for collecting a field blank consists of transporting sufficient DI water into the field and collecting a sample of that DI water using sampling and preservation procedures identical to those used in collecting the manhole sample.

Sewer Line-Cleaning Sampling

The EM Department supports Interceptor Maintenance (IM) during its sewer line cleaning activities in industrial areas of concern – water is forced through a section of pipe and a pump is placed downstream to remove solids. It is expected that flushing of lines in industrial areas will resuspend contaminants that settle into low points in the pipes. Sampling of this type of activity includes an expanded list of parameters compared to routine industrial manhole sampling - metals, cyanide, TSS, oil and grease, and VOCs.

In 2022, EM collected line-cleaning samples from two manholes. Line-cleaning sample data can be found in Table 32.

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 EM section 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. 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. Prior to septage samples being collected, EM staff sample and screen each septage truck's waste delivery. Septage samples are collected from each delivery truck after the sample port is flushed thoroughly, usually after the load has discharged for approximately one minute. The sample from each 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 composited with samples from each of the septage truck deliveries that day and sent to the NBC Laboratory for analysis.

Septage samples are collected daily Monday-Saturday. All six daily composite samples are kept refrigerated until they are picked up by EM staff on Mondays at the Lincoln Septage Station and are brought to the NBC Laboratory that same day, barring unforeseen circumstances. Three daily samples are chosen at random and analyzed by the NBC Laboratory for trace metals each week.

Revised septage sample collection techniques and equipment were introduced in June of 2004. The new equipment allowed for easier in-line sampling during septage delivery and 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.

During 2022, 156 septage samples were analyzed for trace metals via methodology described in the Field's Point and Bucklin Point WWTF sample collection sections above. Septage sample results for 2022 can be found in Tables 33 and 34.

Stormwater Sampling

Stormwater generated at the NBC WWTFs is regulated under the RIPDES Multi-Sector General Permit (MSGP). The MSGP was first issued in 2006 and re-issued in 2013; the 2013 MGSP expired on August 14th, 2018. A new MSGP went into effect on May 3rd, 2019. Sampling required by this permit started in January 2020.

The 2019 MSGP requires stormwater to be sampled at all stormwater monitoring locations at each NBC WWTFs. Sampling is conducted at eight locations at Field's Point and five locations at Bucklin Point. A sixth stormwater location at Bucklin Point (outfall 002-Y) has been sealed, will no longer discharge, and therefore is not sampled. Four storm events must be sampled each year, specifically, twice in every six-month period with at least one month between sampling

events. The sampled storm events must not have been preceded by measurable rainfall within the prior 72 hours, and samples must be collected within the first 30 minutes (or as soon as practicable, with documentation) following the start of storm event discharge. Stormwater parameters required for analysis include fecal coliform, oil and grease, TSS, and TN (calculated as TKN plus nitrate-nitrite), analyzed as described for WWTF samples above.

In 2022, the NBC performed the required sampling of four storm events at each WWTF. TSS and oil and grease analyses are required as part of Benchmark Monitoring under the MSGP. In 2020, results for these parameters remained below benchmark monitoring thresholds listed in the MSGP, therefore, the requirements for these parameters were fulfilled that year for the permit period and further monitoring is not required until permit renewal. Fecal coliform and TN analysis is required as part of Impaired Waters Monitoring under the MSGP. TN concentrations measured were believed to be due solely to background sources and not from sources associated with NBC activities, therefore, this monitoring is also considered complete for the permit period. Fecal coliform monitoring continued in 2022. The results of NBC stormwater monitoring for 2022 can be found in Table 35.

PFAS Sampling

The NBC began monitoring Field's Point and Bucklin Point influent, effluent and sludge (i.e., filter cake) for PFAS compounds (per- and poly-alkyl fluorinated substances) in the summer and fall of 2020 via contract lab analysis. Sludge samples are analyzed with method ASTM D7968-17a m (32 compounds). Water samples are analyzed using method EPA 537.1 m (28 compounds; 537 m prior to April 2022). In 2022, this PFAS monitoring was conducted monthly, January through November, resulting in 11 datasets. Contract lab PFAS analysis was not performed in December 2022.

During 2022, the NBC Laboratory worked to get an in-house analysis for PFAS online. This analysis utilizes method EPA 1633 analyzed on a Waters Acquity I Class Plus UPLC and Xevo TQ-S Micro. In November 2022, the NBC began analyzing weekly influent and effluent samples in-house, producing six sets of results.

The NBC anticipates PFAS monitoring requirements will be part of the next RIPDES permit cycle, and the monitoring discussed here has been voluntary for general informational purposes. No test method for PFAS and related compounds in wastewater has been approved with multi-laboratory validation by USEPA. As a result, the NBC does not provide any certification concerning the precision or accuracy of such results and provides no assurance that such results are representative of the NBC's influent, discharge, biosolids, or industrial user discharge.

NBC Receiving Waters Monitoring Activities

Introduction

The NBC not only monitors wastewater from the sources to the WWTFs (e.g., industries and manholes) and throughout the plant process, but also monitors the receiving waters of treated effluent and combined sewer overflow (CSO) discharges. Receiving waters monitoring includes sampling the estuarine waters of the Seekonk and Providence Rivers as well as the urban freshwater rivers that enter upper Narragansett Bay from Rhode Island and Massachusetts. This monitoring is vital to determine the impact of NBC effluent on the river and Bay ecosystems. The data are useful in evaluating the success of the CSO Abatement Project and WWTF upgrades in improving the quality of receiving waters. The EM and TAC sections' roles in environmental monitoring and compliance issues also continue to expand as these issues become ever more complex.

In 2022, EM continued sampling for nutrients at several locations in the Providence and Seekonk River estuaries of upper Narragansett Bay and within the watershed at local river stations in northern Rhode Island and on the Massachusetts/Rhode Island 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 loading dynamics is integral to understanding coastal nutrient pollution issues. Determination of background loadings, effluent discharge impacts, and fate of nutrients from the NBC facilities is a necessary component of sound environmental policy. This monitoring initiative was undertaken to provide greater insight into nutrient cycling dynamics 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 bacteria in the local freshwater rivers and the estuarine waters of the Providence and Seekonk Rivers. Specifically, fecal coliform and enterococci are monitored as indicators of potential presence of pathogens (disease-causing organisms) in these waterbodies. Generally, if bacteria counts are elevated, there is a high potential for the presence of pathogens that could be harmful to both humans and wildlife. Raw, undiluted sewage contains high levels of both fecal coliform and enterococci 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 stream passes through primary and secondary treatment and, ultimately, disinfection via chlorination or UV light. Final effluent wastewater discharged from the Field's Point and Bucklin Point WWTFs typically has very low levels of fecal coliform and enterococci bacteria.

Both fecal coliform and enterococci data are utilized by state agencies to monitor water quality in the Bay and rivers. Measurements of enterococci bacteria, 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 in 2006. Fecal coliform

criteria are only applied when enterococci data are not available. However, shellfishing standards continue to be based on fecal coliform bacteria levels. Collecting data for both groups of indicator bacteria also allows the NBC and others to evaluate whether there is a consistent relationship between enterococci and fecal coliform results in the receiving waters environment.

Bacteria monitoring is particularly important for evaluating the impacts of the NBC's combined sewer system. During large rain events, the two treatment facilities use special wet weather treatment tanks to treat and disinfect the higher volumes of combined rainwater and sewage influent. However, during intense rain events when the collection system is overwhelmed, the NBC's CSOs can send untreated stormwater and sewage that the collection system cannot contain directly into the freshwater rivers and upper Bay. The NBC river bacteria monitoring stations are strategically located upstream and downstream of CSOs to regularly evaluate their impact.

EM also conducts monitoring of particular CSO discharges during wet weather events. The NBC has embarked on a historic public works project to eliminate the negative impact that CSOs can have on water quality with a three-phase CSO Abatement Project, of which Phase I began operation in the fall of 2008. The major achievement of Phase I was the construction of a 3-mile long, 65-million-gallon storage tunnel that collects approximately 1 billion gallons of combined stormwater and sanitary sewage each year, which is then pumped to the Field's Point facility for full advanced-secondary treatment. Phase II systems, completed and online during 2015, included sewer separation projects, a screening and storage facility and constructed wetland, and additional connections to the Phase I tunnel. Phase III of the project is primarily focused on the construction of another deep rock tunnel through Pawtucket and Central Falls, terminating at the Bucklin Point Wastewater Treatment Facility. Phase III started in 2016 and broke ground on the Pawtucket tunnel in 2021, with an expected completion date of 2027.

As part of monitoring the overall health of the Bay, the NBC monitors water quality and marine biota through several additional initiatives. The fixed-site monitoring initiative includes two water quality monitoring stations, one located at a dock at Phillipsdale Landing in the Seekonk River estuary and one on a buoy at Bullock Reach in the Providence River estuary. EM maintains these monitoring sites to continuously collect temperature, dissolved oxygen, salinity, pH, chlorophyll fluorescence, and turbidity data. In addition, vertical water quality profiles are collected approximately weekly (May - October) or every other week (November - April) at nine locations throughout the upper Bay. These profiles are collected by lowering sensors through the water column which record temperature, salinity, dissolved oxygen, density, chlorophyll fluorescence, and photosynthetically active radiation (PAR). To complement these data, water clarity is measured at each monitoring site via Secchi disk. While the research vessel is underway, an effort to conduct real-time surface water quality mapping occurs, as water is circulated through a sensor on the boat and analyzed for temperature, salinity, dissolved oxygen, pH, and chlorophyll fluorescence. Marine biota are monitored via monthly grab and plankton net samples for phytoplankton analysis and via video surveys of the benthos several times per year.

Receiving waters monitoring activities are discussed in further detail in the sections that follow.

Most data generated from the receiving waters monitoring initiatives are posted for public use on the NBC's website "Snapshot of Upper Narragansett Bay" (https://snapshot.narrabay.com/app/) or may be requested at any time.

An environmental monitor transferring a sample from Narragansett Bay.

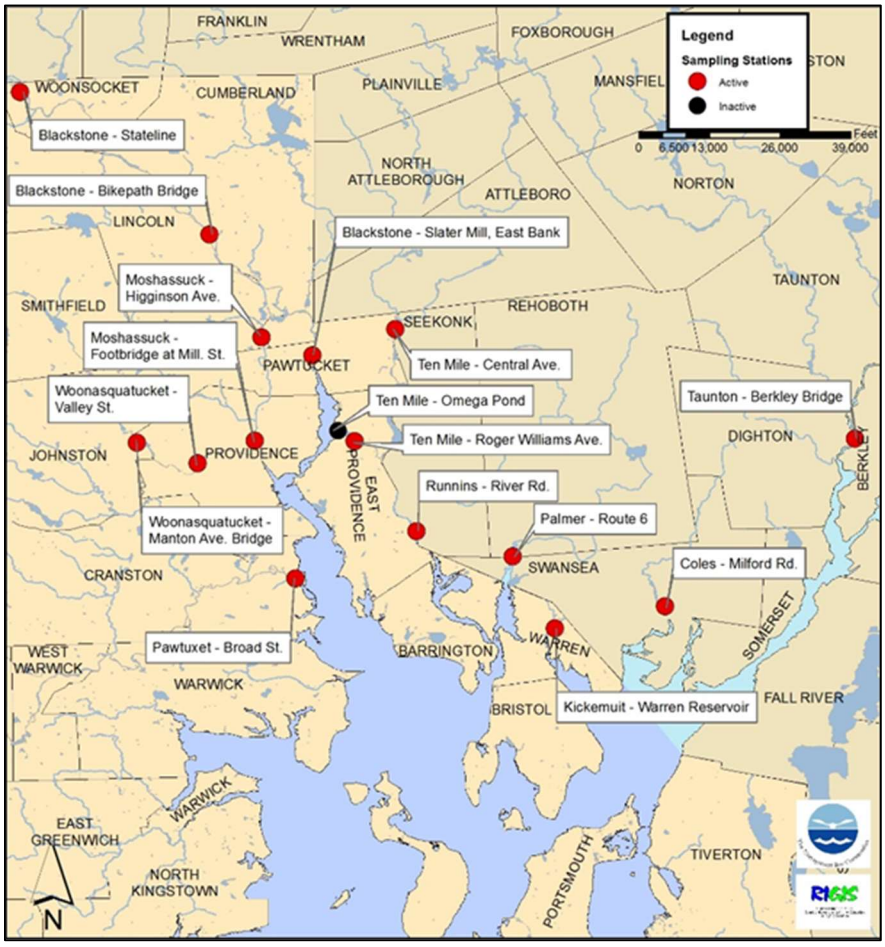
River and Bay Nutrient Monitoring

The NBC has been proactive in responding to environmental concerns regarding 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 of facility operations on receiving waters, an intensive sampling program of the urban 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 loadings from the urban rivers that empty into Narragansett Bay just upstream of tidal influence, and an evaluation of the nutrients entering Narragansett Bay via rivers from Massachusetts. Both components are important to accurately determine the nutrient inputs to Narragansett Bay and the impact of sources outside of the NBC service district. By determining the magnitude and relative importance of these nutrient loads, the NBC will be able to more accurately determine the impact of biological nutrient removal (BNR) systems at the wastewater plants as well as plan future upgrades at both facilities. These 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 and increased the frequency of sampling in 2006. During these first two years of the program, sample splits were submitted to both the NBC Laboratory and the University of Rhode Island Graduate School of Oceanography Marine Ecosystems Research Laboratory (URI GSO MERL) facilities to assure data quality. An additional station was added on the Ten Mile

River in December 2011 to get a better representation of nutrient loadings from Massachusetts into this river. In November 2017, the Ten Mile River at Omega Pond site became inaccessible to NBC EM staff; a new Ten Mile River site at Roger Williams Ave. was initiated in August 2018 to take its place. During 2019, the Slater Mill, East Bank site was temporarily inaccessible due to dam repair work; alternate sites at Exchange St. and Main St. Bridge were sampled during

Figure 1: NBC River Nutrient Sampling Stations



this period. In 2022, there were fifteen river stations monitored one to two times per month. The locations of river nutrient sampling stations can be found in Figure 1.

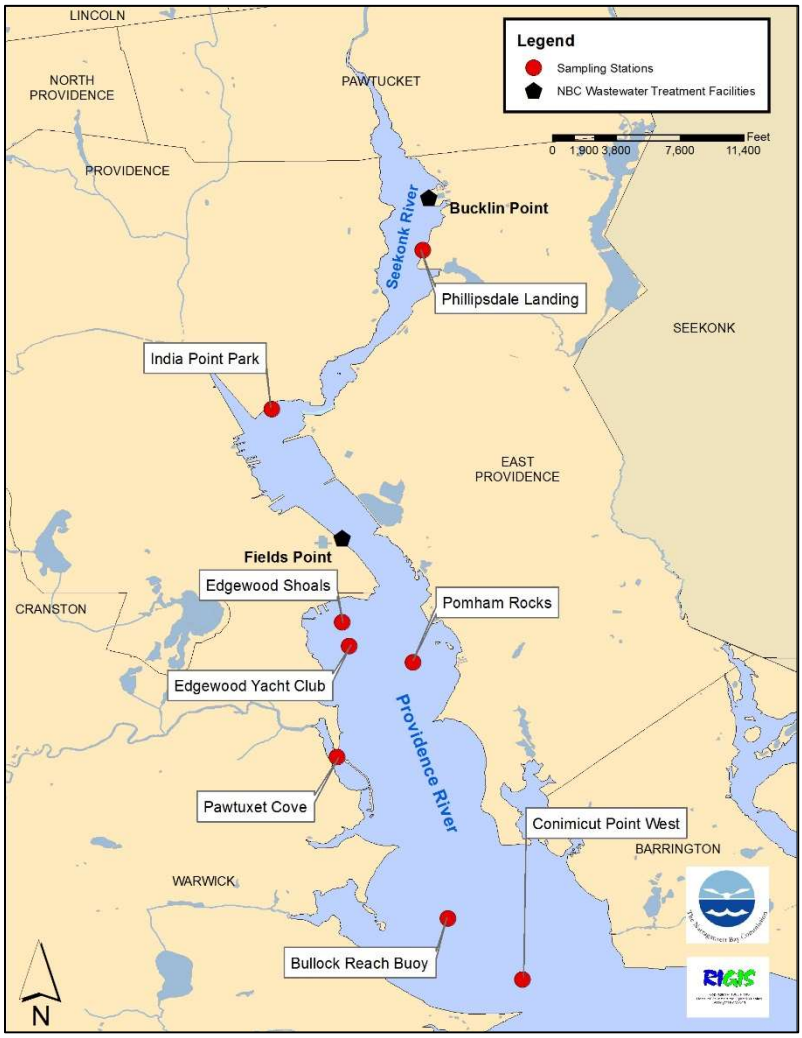
River nutrient samples are collected near the midpoint of the flow in the river channel, at a depth of approximately 0.5 to 1 meter below the surface, using a peristaltic pump, Tygon® tubing, and large plastic collection bottles. Samples for TSS are also collected as part of nutrients surveys. Prior to the sample day, all tubing, collection bottles, and sample containers are washed with non-phosphate detergent and acid-rinsed with 10% HCl, then rinsed with DI water. Most individual sample bottles are new and sterile at the start of this process, though ammonia bottles are washed and reused. During sampling, water is first pumped into the large (e.g., 2-liter) collection bottle, then split into individual sample bottles for each set of analyses (described below). All tubing is

rinsed with DI water between sample stations. At each station, tubing is also flushed with river water prior to sample collection. As part of EM's quality assurance efforts for this program, field blanks and duplicates are collected in order to determine the accuracy and precision of sampling methods and sample handling techniques. Field blanks are collected by each team during each nutrient 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 collected in the field using DI water in place of river water, with the same handling techniques as the actual river samples. Duplicate samples are collected by splitting the main large collection bottle of water into two sets of sample bottles for analysis. In addition to these sampling QA/QC measures, the NBC Laboratory has a rigorous analytical QA/QC program in place for all nutrient analyses.

The water in the large collection bottle is divided among smaller bottles for individual analyses while on site. Unfiltered samples are poured into bottles for TSS and TN analysis, while the remaining sample bottles (for total dissolved nitrogen, nitrate+nitrite, nitrite, orthophosphate, silicate, and ammonia) are filled after filtering the sample water through 0.45-µm filters; the results of analyses on these filtered samples therefore represent the dissolved (or soluble) concentrations only. The filter and each individual sample bottle are rinsed with sample water prior to filling, and filters are discarded after each sample or duplicate sample has been filtered. Once the sample bottles have all been filled, they are labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. Sample bottles may be frozen for storage before analysis, except for ammonia and TSS samples, which remain refrigerated. If samples exceed the holding time, they are analyzed but data are flagged as non-reportable.

To measure any direct changes in nutrients in the upper Bay as a result of WWTF upgrades and the CSO Abatement Project, the NBC began sampling for nutrients in the Providence and Seekonk River estuaries during the summer of 2005. The direct water column nutrient measurements provide important insight regarding the amount of nutrients in the upper Bay from all sources, including river loading, surrounding WWTFs, atmospheric deposition, groundwater, runoff, failing septic systems, and nutrients from the middle and lower Bay area as well as from offshore. Original 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 (Figure 2). In July 2006, one additional bay station was added and NBC began collecting bottom samples periodically at all bay stations. The new bay station was located at the Bullock Reach Buoy, where the NBC fixed-site continuous water quality monitoring occurs. In August of 2012, a seventh site was added in Pawtuxet Cove, near the mouth of the Pawtuxet River, at the channel marker of Red Can #6. This site was added to observe the effects of the Pawtuxet River on upper Narragansett Bay. An eighth site was added in 2014 at Edgewood Shoals. As seen in Figure 2, the Conimicut Point, Bullock Reach Buoy, Pawtuxet Cove, Edgewood Shoals, Edgewood Yacht Club, and Pomham Rocks stations are located in the Providence River estuary. The Phillipsdale Landing station is located in the Seekonk River estuary at the fixed continuous water quality monitoring dock site, and the India Point Park station is located near the mouth of the Seekonk River estuary.

Figure 2: NBC Bay Nutrient Sampling Stations



Bay samples are collected, filtered, and preserved onboard the NBC research vessel, the R/V *Monitor*. All surface collections in bay waters are made at a depth of approximately 0.5 to 1 meter below the surface. Bottom collections are made approximately 0.5 to 1 meter above the sediment. Samples are collected using an acid-washed and DI water-rinsed Niskin sampler, with sample water then poured off into a large collection bottle. All tubing and bottles are acid-washed and then rinsed with DI water before the sampling day, and tubing is rinsed with DI water between sample stations. The Niskin sampler and bottles are rinsed with sample water at each site prior to sample collection. Duplicate samples and DI water field blanks are collected as described above, with duplicate samples being poured from the same Niskin sample in order to determine the accuracy and precision of sampling methods and sample handling techniques. As described for the river samples, the water in the large collection bottle is divided among smaller bottles for individual analyses while on site. A chlorophyll *a* and phaeophytin *a* sample (not collected at river sites) is filtered using a GF/F 0.7-µm, 47-mm diameter TCLP filter and is preserved with magnesium carbonate prior to storage in a dark cooler. Unfiltered samples are poured into bottles for TSS and TN analysis, while the remaining sample bottles (for total

dissolved nitrogen, nitrate+nitrite, nitrite, orthophosphate, silicate, and ammonia) are filled after filtering the sample water through 0.45-µm filters. The filter and each individual sample bottle are rinsed with sample water prior to filling, and filters are discarded after each sample or duplicate sample has been filtered. Ammonia samples collected from bay sites are preserved with a few drops of chloroform, then all samples are labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. Sample bottles may be frozen for storage before analysis, except for ammonia and TSS samples, which remain refrigerated. If samples exceed the holding time, they are analyzed but data are flagged as non-reportable.

The NBC Laboratory analyzes both freshwater and saltwater sample sets for nitrite+nitrate, nitrite, total dissolved nitrogen, ammonia, orthophosphate, silicate, TN, TSS, and chlorophyll *a* and phaeophytin *a* (saltwater samples only). Total nitrogen, including both dissolved and particulate phases, has just been analyzed in these samples since 2012. Each of the NBC Laboratory's methods includes rigorous analytical QA/QC procedures to ensure data quality. For all samples, the Laboratory employs methods for brackish water analysis on a Lachat Quikchem 8500 Series II Flow Injection Analyzer. Orthophosphate is analyzed via EPA Method 365.5, ammonia is analyzed via EPA Method 349.0, nitrate+nitrite is analyzed via EPA Method 353.4, and total dissolved nitrogen is analyzed via Lachat Quikchem Method 31-107-04-3-A. Silicate is analyzed using EPA Method 366.0. Total suspended solids are analyzed using Standard Method 2540-D. Chlorophyll *a* and phaeophytin *a* are analyzed using a Turner Designs Trilogy Laboratory Fluorometer in accordance with EPA Method 445.0. Lastly, water quality parameters, including pH, temperature, and salinity, are measured by EM at the time of sample collection using a YSI EXO1 sonde equipped with an EXO handheld (river nutrients) or a YSI EXO2 sonde that pumps water continuously (bay nutrients) during routine sampling. All data from 2022 River and Bay Nutrient sampling can be found in the attached Table 36. Additional chlorophyll *a* and phaeophytin *a* grab sample results collected in support of the fixed-site monitoring initiative are included in this table. These samples are collected, filtered, preserved, and analyzed according to the same methodology described above, and merged in this data table for simplicity.

Urban River Pathogen Monitoring

Consistent NBC monitoring for fecal coliform in the Providence area urban rivers began in 1997 and became the responsibility of EM in 1998. This monitoring was developed in conjunction with the CSO remediation stakeholder process and has served as a tool for the IM section to check for potential problems occurring at any of the 61 CSOs the NBC currently owns, operates, and maintains. Over the past decade, some CSOs have been eliminated as part of CSO abatement. Since 2007, samples have also been collected for enterococci analysis at a subset of stations. Routine sample collections for analysis of fecal coliform and enterococci 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 sampled on Tuesdays. In the event of a holiday or any unforeseen circumstance that would prevent sampling under the regular schedule, the sampling routine will begin the next day sampling is possible. Samples are collected by EM staff in the morning and delivered to the laboratory at Field's Point no later than 11:30 AM that day. All

stations sampled on the same river on the same day are collected within a two-hour period. NBC's IM, Construction, EM, TAC, and Engineering sections determine locations to be added or omitted as needed.

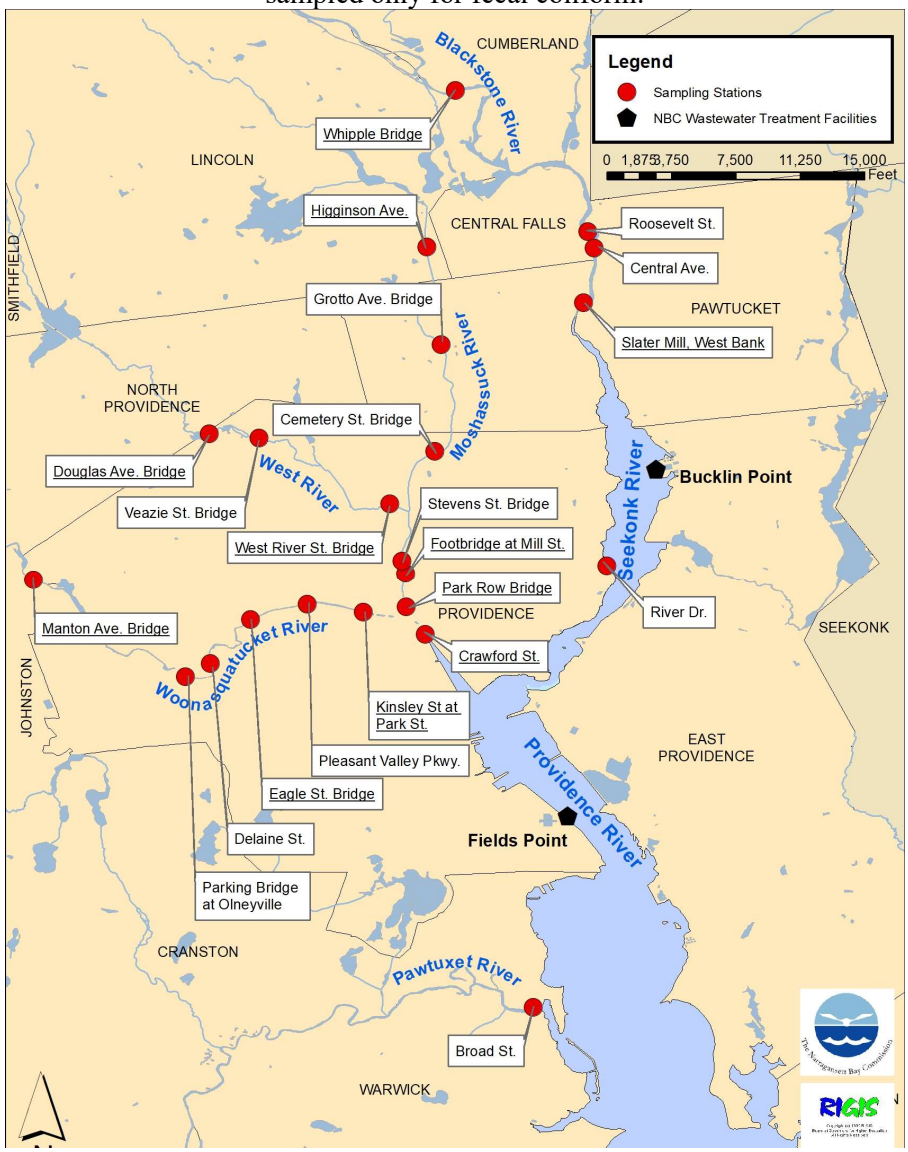
Samples are collected regularly from six sites on the Woonasquatucket River, four sites on the Blackstone River, six sites on the Moshassuck River, three sites on the West River, and one site each on the Pawtuxet, Providence, and Seekonk Rivers. The locations of these sites are shown in Figure 3; special sampling events may include sampling at additional sites not shown. Due to site access issues, sampling was discontinued at the Seekonk River at Pitman St. location following January 20th, 2021. This location was replaced with the Seekonk River at River Dr. site in late January 2021. During 2022, a total of 1,702 analyses were conducted for fecal coliform and 1,346 analyses were conducted for enterococci.

In order to improve the NBC's identification of dry weather overflow (DWO) discharges and to identify other sources of bacterial contamination in the rivers, in 2002, EM began resampling weekly river collections when high bacteria counts are observed. Rivers are not resampled when collections have occurred following wet weather because high bacteria counts are expected due to the normal functioning of CSOs. When results from collections exceed the threshold of 1,000 MPN/100 mL and there has been dry weather (i.e., less than 0.1 inches of rain in the preceding four days), EM will resample those stations a second time within the week. Resampling will also occur when results are very high (i.e., greater than 10,000 MPN/100 mL) when no rain has occurred in the preceding two days. These general resampling criteria are subject to change based on river flow, bacteria level at background stations, and staff availability. This year, following reports of three DWO events to receiving waters by Interceptor Maintenance, special DWO river and bay bacteria sampling was conducted on two dates (June 23rd and September 19th, 2022). In response to these events, six additional bacteria samples were collected, and six fecal coliform analyses and three enterococci analyses were conducted.

Water samples for fecal coliform and enterococci analysis are collected from the center of a bridge or from a riverbank. A sterile, 120-mL sample container is used for the sample collection. Collections from bridges are conducted by placing the sample container in an open-ended PVC cylinder with a small screw running through the cylinder body to hold the sample in place. A line is attached for lowering the sampler into the stream being sampled. There are two samplers – one for a 2-bottle configuration and another for a 4-bottle configuration. Samples collected from a riverbank are taken by dipping the sample container into the stream by gloved hand. The sample is taken from the surface as close to the center of the water flow as possible.

Once the sample has been collected, the sample container is sealed and labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. All samples are brought to the Laboratory for analysis to begin within the 8-hour holding time. If samples exceed the holding time, they are discarded and not analyzed. The analytical method used by the NBC Laboratory for fecal coliform analysis 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 uninoculated, freshly prepared media are incubated and analyzed in order to confirm the sterility of the media. Enterococci analysis is performed using

Figure 3: NBC River Bacteria Sampling Stations. Underlined stations are sampled for both fecal coliform and enterococci. All other stations are sampled only for fecal coliform.



the IDEXX Enterolert Method 1600 with Quanti-Tray 2000 enumeration system. The NBC Laboratory is EPA and Rhode Island Department of Health certified.

As part of EM's quality assurance for this program, collection and analysis of DI water field blanks and duplicate samples occurs on all regular sampling days. These collections and analyses may be used to help determine analytical and sampling accuracy and precision. Field blanks are collected as described above for nutrients sampling. Duplicate samples are collected from specific sampling locations on each regular sampling day. These sampling locations are Eagle St. Bridge (W7C) in Providence on the Woonasquatucket River, Footbridge at Mill St. (M5) in Providence on the Moshassuck River, and Broad St. (PX-13) in Cranston on the Pawtuxet River. The Eagle St. Bridge and Broad St. sampling is conducted from a bridge in the center of the main current flow. The Footbridge at Mill St. site sampling is conducted from the center of the main current flow from the private footbridge near Mill Street. The duplicate samples are taken simultaneously with the sampling device by securing two bottles into the device at the same time. Fecal coliform data for routine monitoring at the sampling stations located in the urban rivers can be found in the attached Table 38. Enterococci data for the urban rivers can be found in Table 39.

Bay Pathogen Monitoring

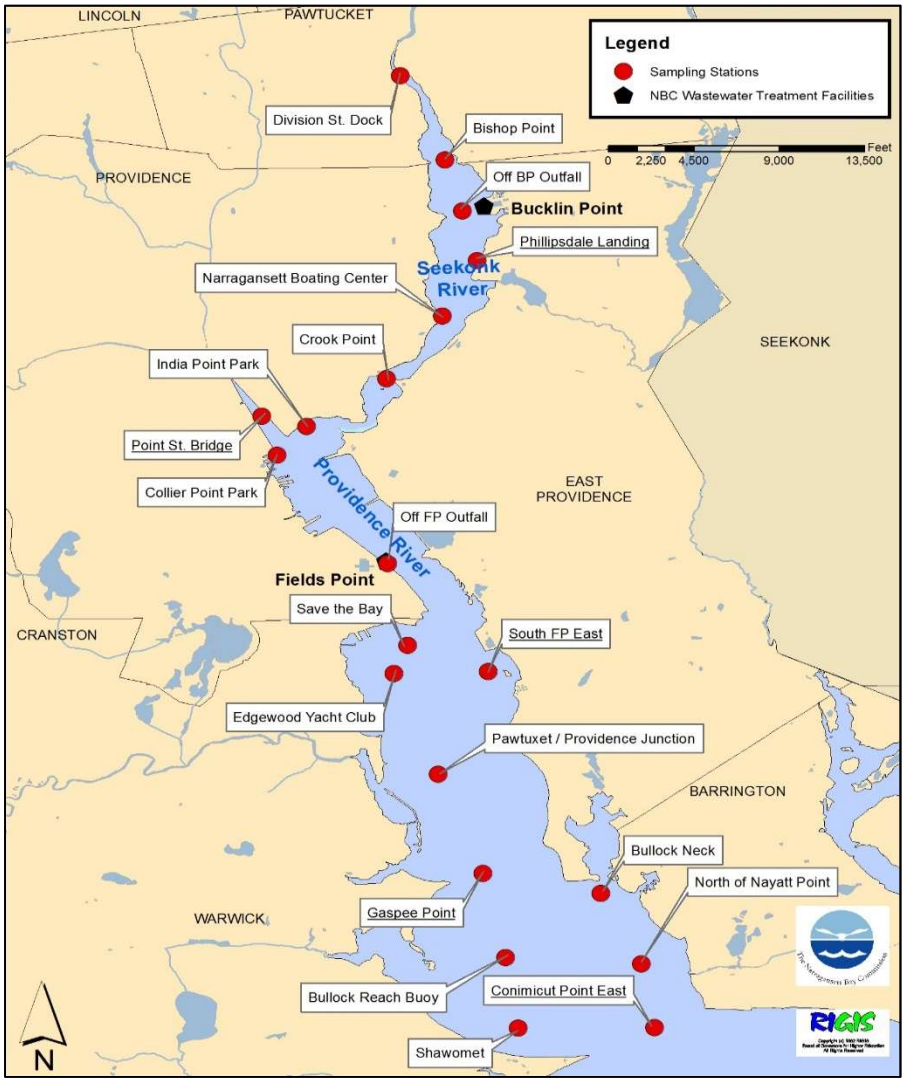
Fecal coliform sampling in the estuarine Providence and Seekonk Rivers began in 2003 in response to the need to understand the spatial and temporal impacts that discharges to these waterbodies have on Narragansett Bay; sampling for enterococci at a subset of bay sites began in 2006. Routine sample collections for the analysis of bacteria are conducted every other week, usually on Wednesdays or Thursdays throughout the year, dependent on weather. All station samples are collected within a three-hour period on the same day. In the event of a holiday or any other unforeseen circumstance that would prevent sampling under the regular schedule, the sampling will resume on the next possible regular workday. Samples are collected by EM staff and delivered to the NBC Laboratory no later than 12:00 PM on the day of sampling.

Bay bacteria samples are collected from the NBC research vessel the R/V *Monitor* at six sites in the Seekonk River estuary and fourteen sites in the Providence River estuary, as shown in Figure 4. Under special circumstances, including after some heavy rainstorms, special sampling may take place, which includes collecting bay bacteria samples consecutively over several days in the Seekonk and/or Providence River estuary as well as in the conditional shellfishing areas just south of the Providence River estuary. Depending on the circumstances, the sample stations may include all or some of the usual stations and/or additional stations further down the bay.

Bay water samples for bacteria are collected by placing a sterile 120-mL sample container in an open-ended plastic cylinder. The sample container is held in place via 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. The sample is collected from just below the surface, then the sample container is sealed and a label with site ID, sample number, date and time of collection, and preservation method is placed on the container. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. All samples are brought to the Laboratory for analysis within the 8-hour holding time period. If samples exceed 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 sample bottle. A blank sample using DI water is also collected in the field and brought to the Laboratory along with the bacteria samples for quality assurance purposes. Bay bacteria are analyzed according to methodology described in the above section on freshwater river bacteria analysis. During 2022, 467 routine bay bacteria samples were collected, and 467 fecal coliform analyses and 164 enterococci analyses were conducted. Seven additional bacteria samples were collected on June 23, 2023 following high bacteria measurements the day prior and a DWO. Seven fecal coliform analyses and two enterococci analyses were conducted from these samples. 2022 bay fecal coliform and enterococci data are shown in the attached Tables 40 and 41, respectively.

Figure 4: NBC Bay Bacteria Sampling Stations. Underlined stations are sampled for both fecal coliform and enterococci. All other stations are sampled only for fecal coliform.



Combined Sewer Overflow Monitoring

In support of the NBC's mission to protect Narragansett Bay and its tributary rivers, and to fulfill the requirements of the EPA and DEM Nine Minimum Controls Program (which implements technology-based measures to reduce the impact of CSOs on receiving water quality), the EM section attempts to sample CSO wet weather overflows several times per year. The aim of such wet weather sampling is to characterize the water quality of CSO discharges and to evaluate the success of the NBC Pretreatment and Pollution Prevention programs at controlling the discharge of pollutants through CSOs. In addition to the Pretreatment and Pollution Prevention programs, the NBC CSO Abatement Project, once fully implemented, will further reduce CSO impacts by eliminating 98% of CSO discharges. Until both the CSO Abatement Project and the EPA's Capacity, Management, Operations, and Maintenance program (an element of the Nine Minimum Controls Program) for the NBC are fully implemented, all other feasible controls of CSO discharge are expected to be utilized.

In 2022, wet weather monitoring was conducted at three different CSOs: Outfall 002A (Bucklin Point North Diversion Structure), Outfall 035A (Livingston St.), and Outfall 220A (Esten Ave. near Moshassuck St.). Sampling at all three outfalls was conducted on February 4th, 2022, with 1.43 inches of rainfall as measured by the National Weather Service at T.F. Green Airport (1.53 inches at Bucklin Point, 1.33 inches at Field's Point). Outfall 002A is located in the Bucklin Point service district, and discharges to the Seekonk River. Outfall 220A is located in the Bucklin Point service district while Outfall 035A is located in the Field's Point district, and both discharge to the Moshassuck River. Please note that sampling of Outfall 035A was challenging due to high river water levels and may represent a mix of river flow backing up into the pipe and actual CSO flows coming out.

The NBC's CSO sampling plan was designed to collect three samples at each targeted outfall throughout the overflow event. The first sample is collected during the initial overflow, or first flush stage and is expected to contain wastewater with the least degree of rainwater dilution and the highest concentrations of materials washed from street and land surfaces into the combined sewer system. A second sample is then taken during the stage of highest overflow rate and a third sample taken near the conclusion of the event. In practice, it is challenging to predict not only the start of discharge, but also the period of peak flow and expected end time. In 2022, sampling of Outfalls 035A and 220A successfully included three samples during the event. Each sample was tested for BOD, TSS, metals, bacteria, nutrients, and VOCs. Analysis of CSO samples is done according to the methods described above for plant samples. Sampling at outfall 002A was only successful for two grabs, with the flow decreasing so suddenly that the second grab did not contain enough volume for all analyses. The data for CSO 035A can be found in Table 42, data for CSO 002A can be found in Table 43, and data for CSO 220A can be found in Table 44. .

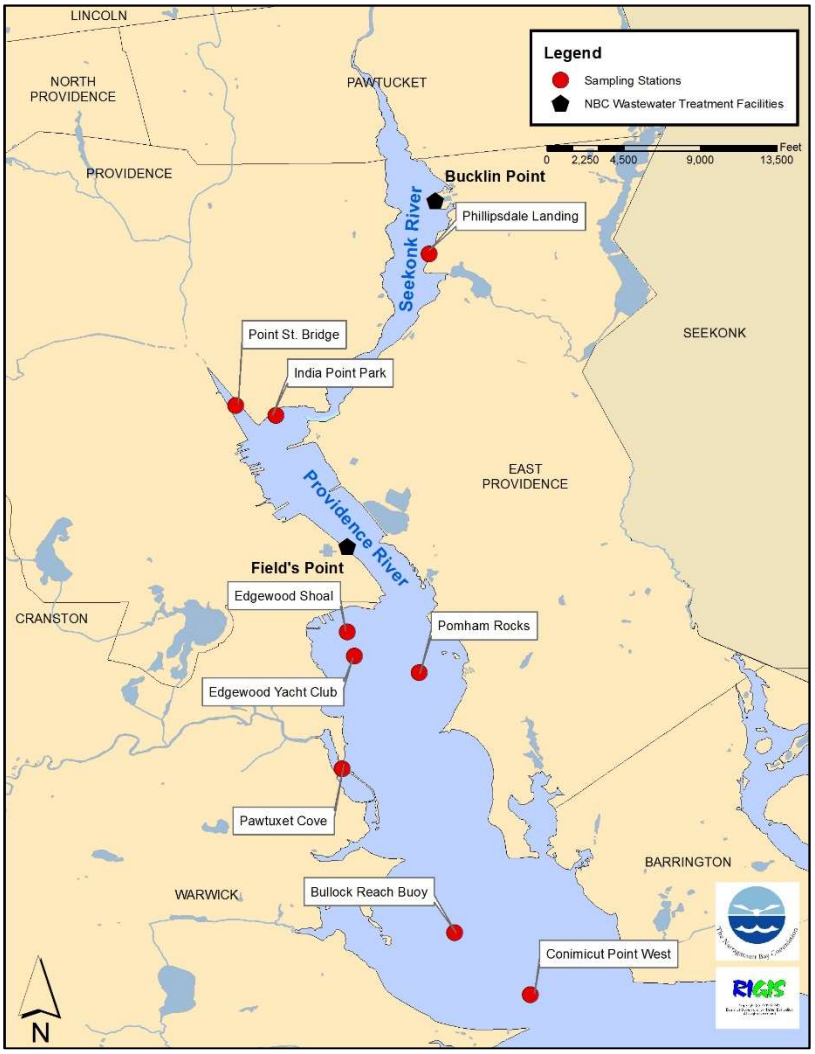
Water Column Profile Monitoring

In 2006, the NBC began measuring water quality profiles at bay sites using a Seabird Electronics profiler (SBE 19 plus). In 2020, the NBC upgraded to a newer model SBE 19 plus V2. This instrument measures depth, temperature, salinity, dissolved oxygen, density, fluorescence, and photosynthetically active radiation (PAR) four times per second as it is lowered through the

water column at each site, providing valuable information on how water quality varies with depth. In particular, the data are evaluated to identify areas of stratification, where the surface and bottom waters are poorly mixed. Such conditions are normal in estuaries, particularly near freshwater inputs and in the summer, when surface waters are warmed by the sun and winds tend to be low. Stratified conditions are monitored as they can contribute to hypoxia in estuarine waters by preventing dissolved oxygen mixing from the surface to the bottom waters. These profiles also provide valuable information on water clarity, through measurements of PAR, or the amount of sunlight, at depth. The PAR measurements on the profiler are coupled with data from a PAR sensor on deck, measuring ambient sunlight strength above water. Deployment of the profiler includes a "surface soak" of several minutes well below the surface to ensure the instrument temperature equilibrates to the ambient water temperature and all air has been purged from the flow path tubing. Following the surface soak, the profiler is brought up to the surface before dropping for the full downcast. The Seabird instrument is cleaned and maintained after each deployment by trained NBC monitoring staff and sent back to the manufacturer every two years for servicing.

All data downloaded off the profiler are analyzed using a set of steps recommended and provided by the manufacturer to align data based upon known sensor time response differences, filter out digital "noise," correct for thermal impacts on salinity data, and derive calculated parameters. Data are visually inspected by the NBC LIMS Data Coordinator to exclude the surface soak data before bin-averaging the downcast by 0.25 meter increments. This bin-averaging interpolates a smooth profile and produces a more manageable amount of data for public presentation on the Snapshot of Upper Narragansett Bay website, where the 2022 data and all historical data are available for download. In 2022, 204 water column profiles were collected. Stations where water column profiles are conducted are shown in Figure 5.

Figure 5: NBC Water Column Profile and Secchi Depth Monitoring Stations



Secchi Depth Monitoring

The NBC has been conducting Secchi depth water clarity monitoring at sites in the Providence and Seekonk Rivers consistently since 2009. This monitoring consists of lowering a black and white disk through the water column and noting the depth at which it is no longer visible, then lifting slowly and noting the depth at which it becomes visible. These steps are repeated three times per site and averaged. The measured depth varies depending on the turbidity of the water column, or the amount of suspended materials in the water. Suspended materials may include sediment (clay, silt, and sand), algae, and materials from anthropogenic sources including waste discharge and urban runoff. High turbidity reduces the amount of light available for photosynthesis by algae and submerged aquatic plants and can ultimately lead to decreased oxygen levels in the water. Suspended materials can also affect aquatic organisms by clogging fish gills, impacting egg and larval development, lowering growth rates, and reducing disease resistance. The NBC collects Secchi depth measurements weekly on the same days and at the same sites (Figure 5) as Bay Nutrients (Figure 2) monitoring and Bay Pathogen (Figure 4) monitoring boat trips. In 2022, the NBC collected 254 Secchi depth measurements in the Providence and Seekonk River estuaries. These data can be found in Table 45.

Benthic Video Monitoring

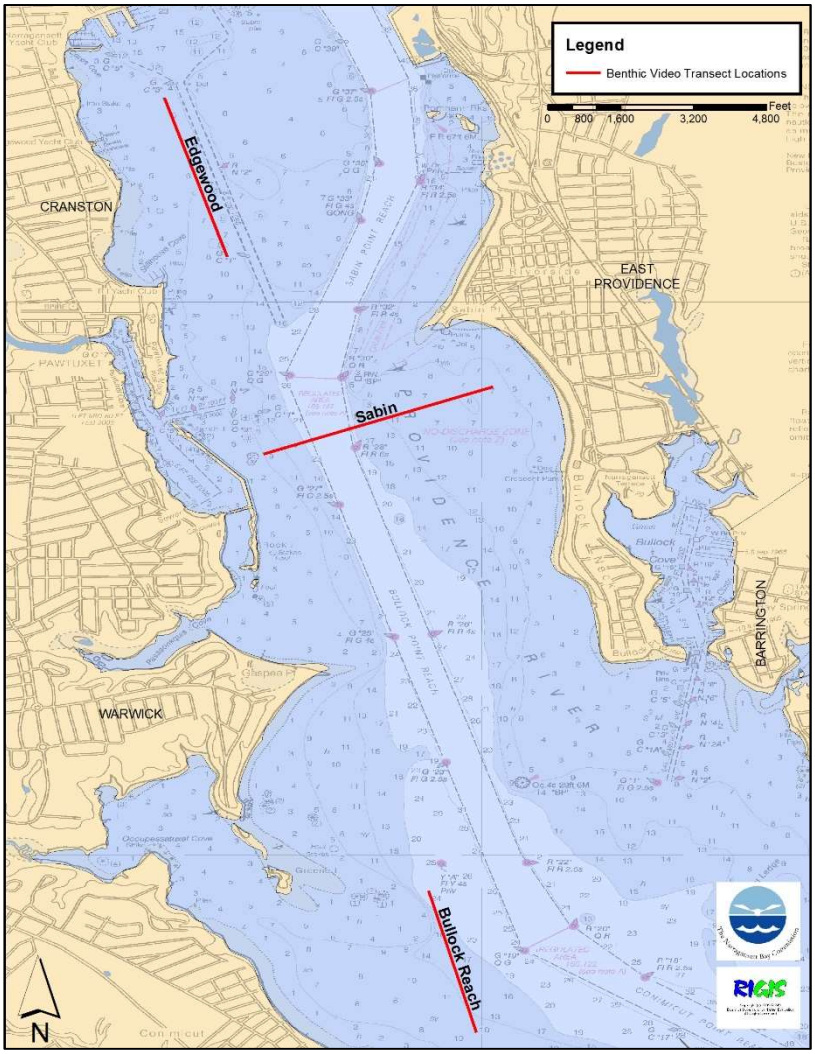
In 2011, the NBC purchased a SeaViewer Sea-Drop analog underwater video camera for the purposes of viewing and monitoring the benthic conditions in the Providence River in relation to plant upgrades and improved quality of WWTF effluent. A specialized sled mount was created to enable smooth towing of the camera and provide a consistent field of view for observations. In late 2014, the NBC designated three permanent transects to target in benthic surveys to be conducted monthly, weather permitting. The locations of these transects can be seen in Figure 6. In 2017, two underwater lasers were added to the sled to provide a measure of scale in the footage. Underwater lighting is also utilized as often as possible to help improve visibility.

*Striped Sea Robins (*Prionotus evolans*) swimming along benthos.*

In 2022, the NBC collected approximately seven hours of underwater footage along these three transects, continually improving field methods and refining this monitoring initiative. The videos reveal a diverse community of estuarine organisms living in the Providence River including fish, crustaceans (e.g., mantis shrimp, spider crabs, hermit crabs), horseshoe crabs, sea stars, tube-building worms, and mollusks (e.g., soft-shelled clams, mud snails, slipper snails). In addition, variable habitat types

were documented, including mudflats, zones covered in shell hash and shell rubble, and areas of rafting macroalgae.

Figure 6: NBC Benthic Video Transect Locations



Video footage collected along these transects will increase the NBC's understanding of changes to the biological conditions in the upper Bay in relation to changes in effluent and related receiving waters monitoring. Summaries of each survey, with screenshots of interesting observations, are made available to the public via the NBC's Snapshot of Upper Narragansett Bay website after analysis. Additional detail and video files are available upon request.

Phytoplankton Monitoring

The NBC began monitoring of the phytoplankton community at the Bullock Reach Buoy site in the Providence River estuary in 2012. Phytoplankton are microscopic plant-like organisms that form the base of the marine and estuarine food web. These organisms use nutrients in the water

column and sunlight to photosynthesize, producing dissolved oxygen in the process. The NBC initiated this monitoring program to measure changes to this important community that may be related to the drastic nitrogen reductions made by the NBC and other WWTFs in the Narragansett Bay watershed. Monitoring is conducted every two weeks as weather and staffing allows and includes a whole water sample to measure the density of various phytoplankton groups as well as a concentrated sample collected using a plankton net to identify the diversity of phytoplankton in the sample. From the whole-water sample, a single milliliter is extracted and all phytoplankton are identified and counted. From the concentrated sample, a subsample is examined under the microscope with each different group recorded. All identifications are made by the NBC's trained biologist. In 2022, the NBC collected fifteen sets of phytoplankton samples. Data from this sampling may be found on the NBC's Snapshot of Upper Narragansett Bay website.

200x phase contrast image of Rhizosolenia *spp. and* Chaetoceros *spp.*

Narragansett Bay Fixed-Site Water Quality Monitoring

The NBC routinely maintains two estuarine fixed-site water quality monitoring stations, one in the Providence River estuary and one in the Seekonk River estuary. These stations were established in 2000 as part of a former EPA-grant-funded "Environmental Monitoring for Public Access and Community Tracking" (EMPACT) Project. The NBC has maintained full funding of these sites since federal grant funding ceased in 2002. The stations were established in proximity to the Field's Point and Bucklin Point WWTF outfalls. The Bullock Reach station is a floating buoy located between Gaspee Point and Conimicut Point in the Providence River estuary, and the Phillipsdale Landing station is affixed to a dock located in the Seekonk River estuary in East Providence. The two routine locations are part of the Narragansett Bay Fixed-Site Monitoring Network (Fixed-Site Network) of water quality instruments deployed throughout the Bay and maintained by multiple agencies. These monitoring stations directly benefit Narragansett Bay research by collecting continuous, real-time water quality monitoring data in the more urbanized portions of the upper Bay, enabling Bay researchers to consistently track changes in the estuaries from remote locations. These data also provide a baseline of water quality data across seasons and reveal yearly trends.

The NBC historically used 6600-series YSI water quality sondes to collect measurements of depth, temperature, salinity, pH, dissolved oxygen, turbidity, and fluorescence (a proxy for chlorophyll and phytoplankton activity) at each fixed site since the project began. In 2018, the sondes at Bullock Reach were upgraded from the 6600-series equipment to the newest YSI EXO technology; Phillipsdale Landing sondes were upgraded to YSI EXO technology in 2019.

YSI sondes (EXO and 6600-series) are typically calibrated the day before deployment for each site at the EM Laboratory in the Water Quality Sciences Building (WQSB) at Field's Point. 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 use YSI standards and are

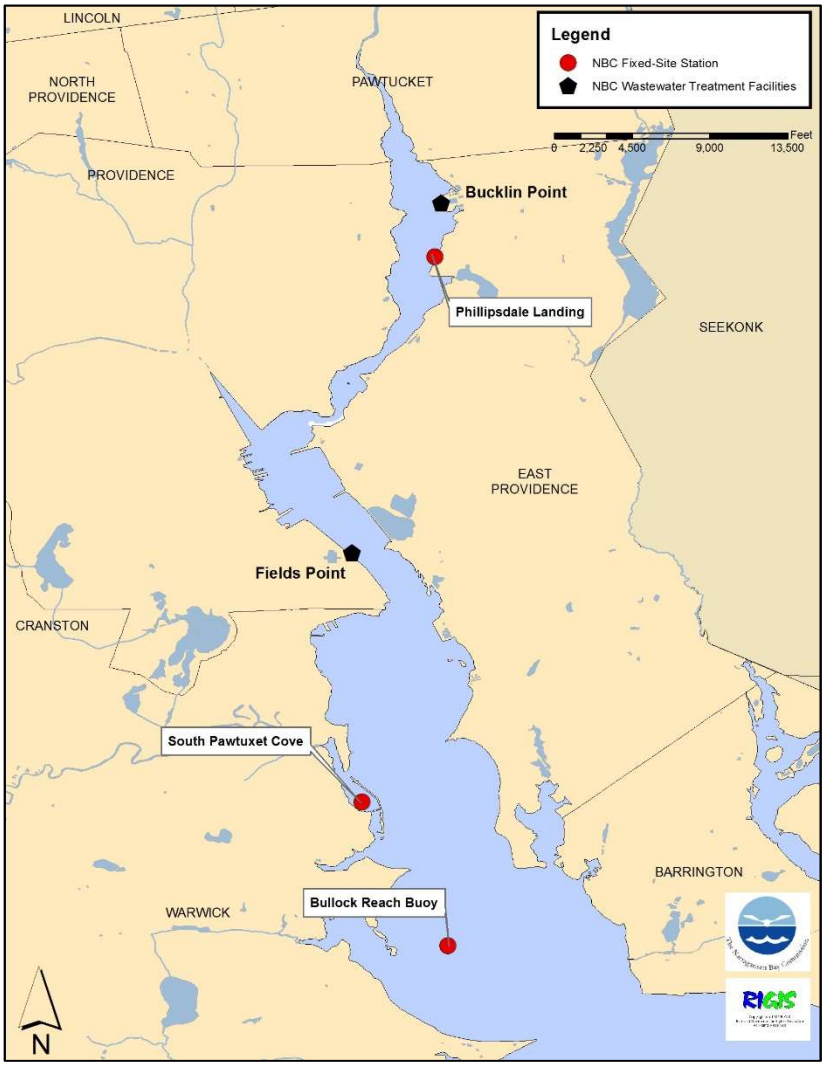


Figure 7: NBC Fixed-Site Station Locations

conducted by trained EM staff. Sondes are designated for each specific site, deployed, and then retrieved after approximately two weeks in the water. Upon return to the EM lab, sondes undergo post-deployment checks, which consist of placing the sonde probes in each calibration solution, as done during calibration, to check readings in that solution of known concentration. These 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 post-deployment check, sondes are cleaned and stored, then re-calibrated just before the next deployment period. Calibration and post-deployment check results are recorded and kept for reference and data editing purposes.

Once at the deployment site, the first readings of the newly deployed sondes are observed for any suspect readings by comparing to the last readings of the retrieved sondes and a hand-held sonde suspended at the same depth. If any problems are observed in the data, an attempt is made to troubleshoot and replace the sonde if necessary. Summer deployments are kept to a maximum of two weeks in the water due to fouling concerns. All field work information is recorded on a field sheet to aid in troubleshooting during data editing. During sonde deployments and retrievals, grab samples are collected from all sonde depths to be analyzed for chlorophyll *a* and phaeophytin *a*. Methods for sample collection, filtration, preservation, and analysis are as described above for the nutrients monitoring initiative. These samples are collected to facilitate potential post-calibration of sonde chlorophyll readings to the concentrations measured in the grab samples, to give researchers a more accurate picture of phytoplankton dynamics in these waters.

Data measurements by the water quality instruments are recorded every 15 minutes and transmitted via cellular communications from Bullock Reach Buoy and via LAN-line connection from Phillipsdale Landing to a base station at Field's Point every hour. Data at the temporary sites were also collected every 15 minutes, though they were not transmitted, rather, they remained saved to the instruments until download at the EM Laboratory upon retrieval.

The EM and TAC staff are continually making improvements to equipment, infrastructure, and QA/QC protocols to ensure the reliability of data collected. As part of the Fixed-Site Network, EM and TAC currently work in partnership with DEM's Office of Water Resources, URI, the Narragansett Bay National Estuarine Research Reserve (NBNERR), the Massachusetts Department of Environmental Protection (MA DEP), the Narragansett Bay Estuary Program (NBEP), the Southeast New England Program (SNEP), and the Northeast Regional Association of Coastal Ocean Observing Systems (NERACOOS) under a Quality Assurance Project Plan (QAPP) that sets standard operating procedures for calibration and maintenance of the sondes as well as data handling to maintain consistency between organizations. The DEM maintains a website which allows easy access to data from each of the fixed sites in one central location (http://www.dem.ri.gov/programs/emergencyresponse/bart/stations.php). The DEM Bay Awareness and Response Team (BART) website currently displays a map showing station locations, weekly summaries of data from all network sites, and historical Fixed-Site Network data in raw, edited, and corrected formats (note data from recent years are not always available if review is still underway). In addition to the DEM BART website, the NBC also shares the data from Bullock Reach Buoy and Phillipsdale Landing on its Snapshot of Upper Narragansett Bay website. Raw data are available on the Snapshot of Upper Narragansett Bay website in near real-time in an easy-to-use and easy-to-understand format, including downloadable data tables. The raw and edited data are also packaged and sent to the Fixed-Site Network Quality Control Officer annually, following an internal NBC data review. Fixed-site data are not included in this Environmental Monitoring Data Annual Report due to the extensive nature of this sampling, but they are easily accessible via the websites named above. Chlorophyll *a* and phaeophytin *a* grab sample data collected in association with the fixed-sites are included in Table 36 with chlorophyll *a* and phaeophytin *a* data collected as part of the nutrients monitoring initiative.

As WWTFs reduce nitrogen inputs to the Bay, monitoring water quality can help researchers better understand ecological responses to these reductions. For instance, nitrogen is often

associated with eutrophication and hypoxia. Hypoxia is the condition where dissolved oxygen concentrations fall below a critical level, negatively affecting marine or aquatic organisms. As part of the Fixed-Site Network, the NBC supports the understanding of the overall health of NBC's receiving waters and contributes to monitoring the response of these waters to nitrogen reductions from WWTFs. The water quality instruments (sondes) that NBC and the other agencies use at these fixed sites continuously monitor dissolved oxygen via optical sensors. With the NBC receiving the data in real-time from its two fixed sites, NBC staff can immediately determine when hypoxia is occurring and for how long. These data are extremely helpful for the NBC, DEM, and other organizations in studying the dynamics of these events and how the organisms in the Bay respond.

Phillipsdale Landing Dock Site

The Phillipsdale Landing fixed-site is located on the east side of the estuarine Seekonk River in East Providence. The monitoring location is very close to large freshwater river sources and is also open to the tidal estuarine Providence River. This makes the Seekonk River a tidal estuary, defined as a place of fresh and saltwater mixing, in the truest sense. The freshwater rivers feeding the Seekonk River estuary include the Blackstone River at the northern terminus and the Ten Mile River, which enters the Seekonk River estuary just south of the Phillipsdale Landing station. The Phillipsdale Landing site is located in about 3.5 meters (11.5 feet) of water, just south of the Bucklin Point WWTF. YSI EXO2 sondes collect water quality data from two depths – near the surface at approximately 0.6 m and just off the bottom at approximately 2 m. With these instruments attached to a dock, staff have easy access to the instruments from shore, allowing them to get to the instruments quickly in the event of any problems. The sondes measure depth, water temperature, specific conductance (and salinity), pH, dissolved oxygen, phycoerythrin, and chlorophyll. For the 2022 season, the sondes were first deployed on March 10, 2022 and continued collecting data through November 22, 2022.

Bullock Reach Buoy Site

The Bullock Reach Buoy site utilizes a floating buoy that is anchored near the edge of the shipping channel in the southern section of the Providence River estuary. This location is in deeper, more saline waters than the Phillipsdale Landing station and is farther from freshwater sources. The nearest major freshwater source is the Pawtuxet River, located to the northwest of the buoy site. The position of the buoy is north of Conimicut Point in about 8 meters (26 feet) of water, west of the Providence River shipping channel and south of the Field's Point WWTF. There are three water quality instruments at this site, deployed at the surface (approximately 1 m depth), mid-water (approximately 4 m depth), and bottom (approximately 8 m depth). The surface YSI EXO2 sonde is deployed in a PVC tube that is integrated into the buoy. The bottom and mid-depth YSI EXO2 sondes are attached to the buoy on one line with a mushroom anchor at the bottom and a float just above each sonde to keep them in an upright position. Each of the three sondes measure depth, water temperature, specific conductance (and derived salinity), pH, dissolved oxygen, chlorophyll, phycoerythrin, turbidity, and total dissolved solids. The buoy is also outfitted with meteorological instrumentation and collects data on wind speed and direction, temperature, and humidity. Power to the buoy is maintained by a solar-powered battery. For the 2022 season, the buoy was deployed on May 19 and data collection began on May 24, 2022 until the sondes were removed for the season on November 22, 2022.

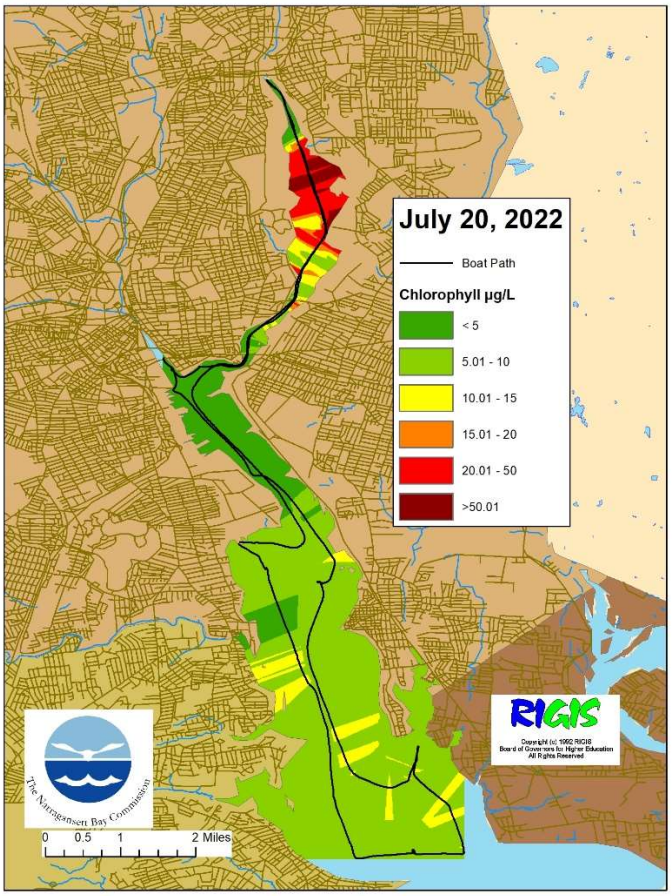
Environmental Monitoring staff service the Bullock Reach Buoy fixed-site station.

Temporary Sites

Temporary fixed sites were not deployed this season in favor of deep channel nutrient sampling. EM commenced sampling at 4 sites in the shipping channel between Poppasquash Point and Field's Point on June 28th, 2022. Sampling was conducted in July on the 26th, in August on the 23rd, in September on the 20th, in October on the 18th, and in November on the 15th.

Bay Surface Mapping

In 2010, the NBC began a receiving waters monitoring effort to map surface water quality as the research vessel conducts bay monitoring throughout the Seekonk and Providence River estuaries. As the boat is underway, a pump draws surface water up and through a water quality YSI EXO2 sonde (formerly a YSI 6-series sonde through the first half of 2022) on the deck, which collects data every four seconds. This sonde is calibrated and maintained as described above for the fixed-site monitoring sondes. The sonde collects data on temperature, conductivity, dissolved oxygen, pH, and chlorophyll. The current focus of the monitoring effort is on the chlorophyll data as a proxy for phytoplankton abundance. The data are analyzed to create maps of chlorophyll concentration along the boat track to illustrate presence and distribution of phytoplankton blooms. Chlorophyll data are processed and mapped using the ArcGIS suite, interpolating values using an inverse distance weighted methodology looking at the 12 nearest neighbors. The interpolation of data all the way to the shoreline is for visual clarity, though it is also highly artificial. In 2022, the NBC mapped surface water quality on 38 days. Surface maps of chlorophyll data are posted to the Snapshot of Upper Narragansett Bay website, while the full datasets are available upon request.



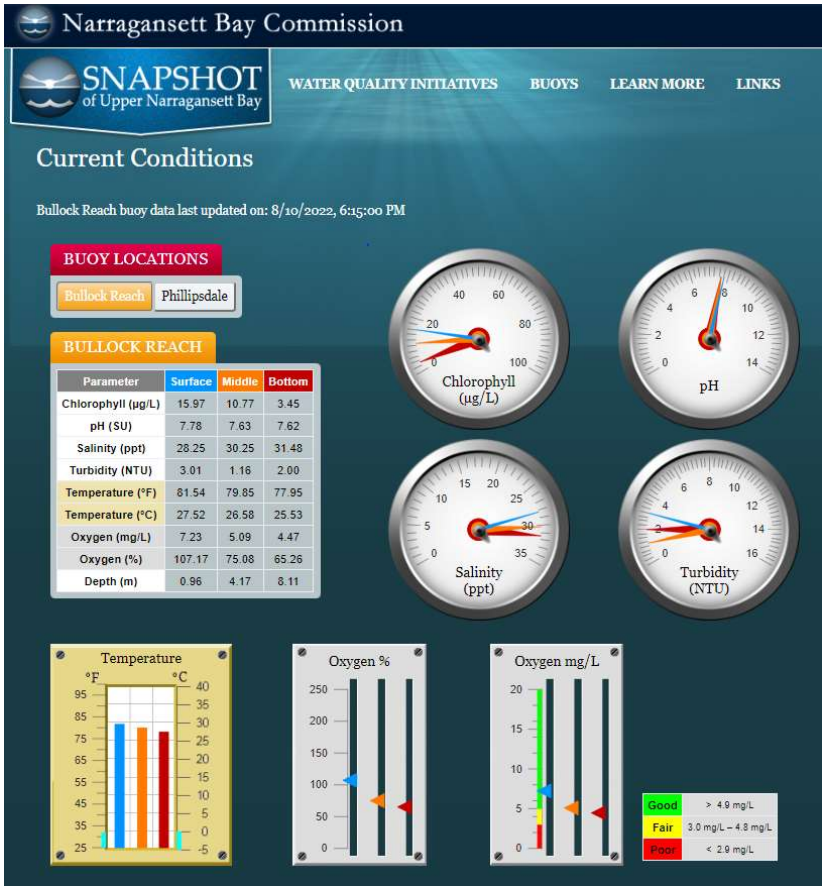
An example of a chlorophyll map from surface mapping on July 20, 2022

NBC Snapshot of Upper Narragansett Bay Website

As discussed in several sections above, the NBC hosts a webpage, launched in 2011, called "Snapshot of Upper Narragansett Bay" (https://snapshot.narrabay.com/app/), where almost all of the results of receiving waters monitoring are shared with the public. This site was continually updated through 2022 with data postings and a blog that is updated weekly with the most recent results of sampling events. Sampling procedures are described for each monitoring initiative and tables with up-to-date monitoring results can be downloaded. The most recent data at the fixed-site water quality monitoring stations are displayed through dials and gauges as shown in Figure 8 below. This display allows users to quickly assess current water quality conditions. An interactive interface (the Buoy Data Export Tool) allows users to choose fixed-site parameters to display in table format, which can then be downloaded. The NBC Snapshot of Upper Narragansett Bay 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. In 2012, the NBC received a National Association of Clean Water Agencies (NACWA) National Environmental Achievement Award for

Excellence in Public Information and Education for the Snapshot of Upper Narragansett Bay website. NACWA's Public Information and Education Awards are presented for outstanding programs in video, printed publications, educational programs, or e-media.

Figure 8: Fixed-Site Dashboard View on the NBC's "Snapshot of Upper Narragansett Bay" Website



Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
1/1/2022	41.76	26.6	2.0	41.76	127	197.19	3.8500	2.73
1/2/2022	40.05	8.8	2.0	40.05	106	168.29	2.3000	2.46
1/3/2022	33.58	8.7	1.0	33.58	128.50	160.08	2.8500	2.51
1/4/2022	34.13	12.4	2.0	34.13	126	145.08	3.2000	2.64
1/5/2022	42.43	<5.0	1.4	42.43	148.50	93.93	12	4.65
1/6/2022	36.86	<7.1	<2.0	36.86	117.50	174.08	2.6500	2.71
1/7/2022	34.83	22.1	1.0	34.83	125.50	173.62	2.7000	2.72
1/8/2022	34.52	17.8	<2.0	34.52	111	149.34	7.1667	3.75
1/9/2022	41.98	7.1	<2.0	41.98	131	152.93	2.8500	2.34
1/10/2022	33.79	<5.0	<2.0	33.79	121.50	167.04	3.8000	2.78
1/11/2022	33.82	<7.1	<2.0	33.82	131	170.77	3.2941	2.62
1/12/2022	33.92	6.3	<2.0	33.92	129	170.75	3.3500	2.74
1/13/2022	32.20	<8.8	<2.0	32.20	204.50	238.74	<2	2.22
1/14/2022	34.63	<8.5	<5.1	34.63	181	203.23	3.5000	2.34
1/15/2022	32.88	<5.0	<2.0	32.88	136	200.57	3.5484	2.23
1/16/2022	38.50	<5.0	<2.0	38.50	230	174.15	3.4000	2.19
1/17/2022	61.63	36.8	4.5	61.63	108	155.60	15.100	5.71
1/18/2022	53.37	17.8	4.5	53.37	83	128.21	11.415	4.79
1/19/2022	54.62	20.6	<2.0	54.62	107	132.97	12.928	4.15
1/20/2022	44.77	10.1	<2.0	44.77	118	148.44	4.2143	2.17
1/21/2022	33.73	5.0	<2.0	33.73	120	176.64	3.7857	2.17
1/22/2022	34.79	<5.0	<2.0	34.79	131	169.55	3.5500	2.14
1/23/2022	36.19	<12.5	2.0	36.19	121.50	192.12	2.9500	2.08
1/24/2022	34.08	<5.0	<2.0	34.08	133.50	176.35	3.1000	2.16
1/25/2022	33.44	<7.1	<2.0	33.44	137	188.66	6.7961	2.84
1/26/2022	33.31	<6.3	<2.0	33.31	126.50	168.83	2.9444	2.29
1/27/2022	34.78	<5.0	<2.0	34.78	140	169.09	2.8500	2.51
1/28/2022	32.62	<5.0	<2.0	32.62	170.50	211.44	5.6250	3.10
1/29/2022	30.87	8.7	<2.0	30.87	147	164.94	4.3056	2.81
1/30/2022	32.92	7.1	<2.0	32.92	146	185.75	4.0645	2.44
1/31/2022	34.07	10.0	2.0	34.07	176	185.19	7.7000	3.72
2/1/2022	31.76	<5.0	<2.0	31.76	177	167.27	4.1000	2.46
2/2/2022	36.79	<5.0	<2.0	36.79	204.50	169.27	4.0625	3.29
2/3/2022	50.99	7.1	<2.0	50.99	198.66	151.14	5.4286	2.98
2/4/2022	63.73	37.2	4.5	63.73	107.50	106.87	37.500	10.60
2/5/2022	54.70	7.1	<2.0	54.70	66	128.07	22.895	6.84
2/6/2022	61.23	78.9	<2.0	61.23	73	111.76	17.719	6.13
2/7/2022	72.25	36.8	2.0	83.28	92	93.21	40	10.25
2/8/2022	63.62	42.7	<2.0	65.49	72.666	111.82	26.500	7.80
2/9/2022	66.81	57.3	<2.0	66.81	84.500	101.01	16	5.48
2/10/2022	65.43	38.9	<2.0	65.43	78	129.99	9.6000	4.21
2/11/2022	61.72	23.1	6.8	61.72	79.500	125.34	14.857	6.26
2/12/2022	48.74	<19.1	<2.0	48.74	81	132.83	4.7879	3.24
2/13/2022	47.36	<5.0	2.0	47.36	214	129.42	24.667	8.65
2/14/2022	43.74	7.1	2.0	43.74	126.50	144.48	7.8889	3.28
2/15/2022	42.87	<5.0	2.0	42.87	123.50	184.94	4.3750	3.26
2/16/2022	45.65	18.3	<2.0	45.65	138.50	157.37	22.800	7.33
2/17/2022	55.73	131.5	2.0	55.73	159.50	150.35	90.500	18.59
2/18/2022	56.78	<37.2	<2.0	56.78	104.50	117.77	42.250	11.15
2/19/2022	57.31	12.5	<2.0	57.31	60	119.40	6.4706	3.22
2/20/2022	56.67	13.6	<2.0	56.67	84	126.77	7	3.62
2/21/2022	52.50	5.0	<2.0	52.50	203	130.61	9.8000	4.46
2/22/2022	53.71	14.3	<2.0	53.71	152	114.32	15.500	6.67

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
2/23/2022	48.78	<6.3	<2.0	48.78	88	121.73	5.0833	4.99
2/24/2022	51.15	<7.1	<2.0	51.15	91	124.73	10.714	4.37
2/25/2022	54.08	31.1	2.0	54.08	114.50	117.36	19.200	6.18
2/26/2022	54.28	19.7	<2.0	54.28	77	108.36	11.710	3.94
2/27/2022	54.31	7.1	<2.0	54.31	120	127.88	6.2687	3.06
2/28/2022	45.87	22.1	<2.0	45.87	123.50	148.42	3.5000	2.75
3/1/2022	51.72	10.0	<2.0	51.72	138.50	133.59	3.5500	2.99
3/2/2022	50.63	<9.2	<2.0	50.63	114	143.09	4.1500	3.39
3/3/2022	48.38	5.0	<2.0	48.38	125.50	129.32	3.6000	2.58
3/4/2022	44.36	<5.0	<2.0	44.36	110.50	128.63	4.2000	2.77
3/5/2022	45.57	<7.1	4.5	45.57	121.50	172.96	3.7500	3.58
3/6/2022	48.30	10.0	<2.0	48.30	127.08	155.68	3.5000	3.44
3/7/2022	45.42	<8.8	<2.0	45.42	113.50	135.56	2.9500	3.06
3/8/2022	42.96	21.6	<2.0	42.96	111.50	155.64	4.8000	3.82
3/9/2022	49.48	<7.2	<2.0	49.48	126.50	131.70	3.4500	2.67
3/10/2022	47.03	<7.1	<2.0	47.03	112	118.44	4.1000	2.52
3/11/2022	43.24	<5.0	2.0	43.24	122.50	142.85	2.6000	2.30
3/12/2022	57.60	10.1	<2.0	57.60	121	118.40	3.9000	3.07
3/13/2022	51.55	<7.1	<2.0	51.55	92.500	135.30	3.0500	2.62
3/14/2022	42.20	14.3	<2.0	42.20	122.50	138.25	2.4000	2.30
3/15/2022	42.11	<5.0	<2.0	42.11	121	161.03	2.4000	2.39
3/16/2022	42.10	<6.3	<2.0	42.10	117.50	149.26	2.7000	2.63
3/17/2022	45.69	8.7	<2.0	45.69	150	175.80	2.9500	2.67
3/18/2022	42.93	<10.1	<2.0	42.93	125.50	164.93	2.7000	2.52
3/19/2022	47.23	<5.0	<2.0	47.23	135.50	157.45	2.7000	3.40
3/20/2022	41.91	8.8	<2.0	41.91	113.07	157.71	2.5000	3.37
3/21/2022	40.01	5.0	<2.0	40.01	119.50	180.78	2.2000	2.93
3/22/2022	40.42	12.4	<2.0	40.42	135.50	169.93	2.7000	3.08
3/23/2022	45.06	<7.3	<2.0	45.06	151	196.32	2.4500	2.90
3/24/2022	63.89	16.1	<2.0	63.89	114.50	112.03	3.1500	2.69
3/25/2022	62.76	<10.1	<2.0	62.76	79	104.65	2.6000	2.37
3/26/2022	48.54	<5.0	<2.0	48.54	103	137.05	3.6000	2.62
3/27/2022	42.74	<5.0	<2.0	42.74	104.50	138.12	2.8500	3.27
3/28/2022	40.44	<5.0	<2.0	40.44	119	148.46	2.7000	2.61
3/29/2022	39.85	<5.0	<2.0	39.85	117.50	149.01	2.7500	2.84
3/30/2022	39.56	<7.3	<2.0	39.56	143.50	161.65	2.8500	3.16
3/31/2022	49.59	<10.1	<2.0	49.59	191.50	163.64	3	3.48
4/1/2022	46.70	<11.4	<2.0	46.70	117	131.19	3.7000	3.09
4/2/2022	39.68	<5.0	<2.0	39.68	92.307	146.45	3	3.50
4/3/2022	40.79	<5.0	<2.0	40.79	127.50	142.48	3.2500	3.03
4/4/2022	39.60	<5.0	<2.0	39.60	130.50	111.88	3.2000	3.04
4/5/2022	38.55	<5.0	<2.0	38.55	156	154.96	3.4000	3.15
4/6/2022	55.90	11.6	<2.0	55.90	144	118	4.0500	2.85
4/7/2022	49.96	19.1	<2.0	49.96	159	157.17	2.9500	2.91
4/8/2022	64.38	<5.0	2.0	64.38	117	121.76	3.7000	3.17
4/9/2022	53.82	<8.8	<2.0	53.82	81	140.73	3.7000	2.91
4/10/2022	43.53	7.1	<2.0	43.53	98	125.62	2.8000	2.93
4/11/2022	41.58	<5.0	<2.0	41.58	140	159.44	3	2.77
4/12/2022	40.20	5.0	<2.0	40.20	135	136	2.7000	2.65
4/13/2022	36.03	<5.0	<2.0	36.03	123	147.21	3.4000	3.34
4/14/2022	40.34	<5.0	<2.0	40.34	134.50	140.15	2.8000	2.79
4/15/2022	39.01	<5.0	<2.0	39.01	141	169.73	3.1000	3.18
4/16/2022	45.82	10.1	<2.0	45.82	164	157.81	3.5500	3.43

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
4/17/2022	37.49	<7.1	2.0	37.49	117	147.66	3.1000	3.16
4/18/2022	48.49	<11.2	<2.0	48.49	143.50	140.99	3.3000	3.31
4/19/2022	72.25	21.7	4.0	72.25	84.500	103.57	4.2000	3.37
4/20/2022	65.53	7.9	<2.0	65.53	85.500	121.39	3.1500	2.60
4/21/2022	66.65	<5.0	<2.0	66.65	71.500	117.27	2.5000	2.92
4/22/2022	43.67	<5.0	<2.0	43.67	101	138.81	2.8500	3.05
4/23/2022	42.62	5.0	<2.0	42.62	103.07	148.57	2.8500	3.21
4/24/2022	42.85	<5.0	<2.0	42.85	101	147.02	2.9000	2.85
4/25/2022	40.84	<5.0	<2.0	40.84	117.50	144.90	2.2500	2.62
4/26/2022	43.15	<5.0	<2.0	43.15	123	140.47	2.7000	2.47
4/27/2022	40.90	5.0	<2.0	40.90	114.50	140.46	2.1500	2.19
4/28/2022	40.61	5.0	<2.0	40.61	133	143.94	2.6500	<2
4/29/2022	39.18	<5.0	<2.0	39.18	117.50	155.59	2.0500	2.03
4/30/2022	37.85	7.1	2.0	37.85	128	145.87	2.1000	2.08
5/1/2022	37.90	5.0	<2.0	37.90	213	145.66	<2	2.51
5/2/2022	50.82	<10.1	2.0	50.82	157.50	150.76	4	2.46
5/3/2022	38.60	<5.0	<2.0	38.60	129	148.37	2.4500	2.04
5/4/2022	42.86	<5.0	<2.0	42.86	125	136.74	2	2.24
5/5/2022	44.46	<5.0	<2.0	44.46	116	135.95	<2	2.32
5/6/2022	37.59	<5.0	<2.0	37.59	153.50	160.68	2	2.16
5/7/2022	33.56	<7.1	<2.0	33.56	133	172.07	2.5500	2.42
5/8/2022	37.63	<5.0	<2.0	37.63	132.50	154.97	2.3000	2.29
5/9/2022	36.70	<5.0	<2.0	36.70	141	163.38	2.2000	2.01
5/10/2022	32.81	<5.0	<2.0	32.81	151.50	170.36	<2	<2
5/11/2022	35.34	<5.0	<2.0	35.34	159.50	157.58	2.1000	2.21
5/12/2022	35.99	5.0	<2.0	35.99	151	164.62	2.1500	2.90
5/13/2022	35.22	<5.0	<2.0	35.22	157	175.61	2.4500	2.61
5/14/2022	34.15	<5.0	<2.0	34.15	143	174.59	2.4500	3.14
5/15/2022	36.29	<5.0	<2.0	36.29	140.50	145.72	2.1000	2.28
5/16/2022	37.25	<5.0	<2.0	37.25	253	205.86	3.6000	2.41
5/17/2022	34.91	<5.0	<2.0	34.91	136	172.57	2.7000	2.19
5/18/2022	35.18	<5.0	<2.0	35.18	145.83	134.04	3.1500	2.43
5/19/2022	37.79	<16.4	<2.0	37.79	158.33	186.53	3.1000	2.29
5/20/2022	39.81	<5.0	<2.0	39.81	177	208.63	4.1500	3.23
5/21/2022	37.29	<5.0	<2.0	37.29	108.50	150.78	2.2500	3.12
5/22/2022	34.34	<5.0	2.0	34.34	126.66	154.32	3	2.48
5/23/2022	33.11	<5.0	2.0	33.11	153.46	196.12	2.4500	2.29
5/24/2022	32.61	<5.0	<2.0	32.61	150	198.81	3	2.29
5/25/2022	32.17	<5.0	5.9	32.17	147.92	208.46	2.4500	2.39
5/26/2022	33.14	5.0	<2.0	33.14	171	194.22	2.9000	2.46
5/27/2022	38.30	8.7	6.8	38.30	179	238.34	3.7500	2.88
5/28/2022	32.96	<5.0	<2.0	32.96	133.75	187.70	2.9500	3.28
5/29/2022	33.96	<5.0	2.0	33.96	126	192.34	2.8500	2.86
5/30/2022	31.53	<5.0	<2.0	31.53	148.46	160.79	3.5000	3.95
5/31/2022	30.83	<5.0	6.8	30.83	131.15	198.35	2.6500	2.92
6/1/2022	31.19	<5.0	2.0	31.19	149.23	162.51	4	2.82
6/2/2022	33.90	<5.0	7.8	33.90	159.50	222.85	4.2000	4.18
6/3/2022	31.81	<5.0	2.0	31.81	157	201.30	3.6000	2.72
6/4/2022	30.86	<5.0	4.5	30.86	118.18	168.27	4.1500	3.30
6/5/2022	33.79	<7.1	6.8	33.79	153.84	200.05	3.5500	2.84
6/6/2022	30.75	<5.0	<2.0	30.75	150.77	189.61	3.9500	3.05
6/7/2022	34.93	<5.0	4.5	34.93	189.23	201.54	4.6000	3.30
6/8/2022	59.95	<8.0	3.9	59.95	138.07	128.86	8.2000	4.22

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
6/9/2022	62.10	<5.0	13.0	62.10	101.50	96.96	4.6000	2.61
6/10/2022	54.02	<5.0	<2.0	54.02	69.500	104.98	2.8500	2.49
6/11/2022	32.11	<5.0	2.0	32.11	123.18	184.87	3.0500	2.57
6/12/2022	39.79	<5.0	<2.0	39.79	179.23	217.41	4.1000	2.47
6/13/2022	58.22	<5.0	2.0	58.22	92.307	105.89	4	2.69
6/14/2022	48.69	<5.0	2.0	48.69	96.923	141.07	3.9500	2.27
6/15/2022	32.28	<5.0	6.3	32.28	133.08	191.40	3.0500	2.13
6/16/2022	33.27	<5.0	2.0	33.27	161.50	165.05	2.9500	2.36
6/17/2022	39.73	<5.0	<2.0	39.73	120	155.36	4.4500	3.02
6/18/2022	34.78	<5.0	2.0	34.78	112	171.35	3.2000	2.22
6/19/2022	31.62	<5.0	<2.0	31.62	104.99	168.09	2.9000	<2
6/20/2022	30.34	<5.0	<2.0	30.34	134.99	188.08	3.2000	2.45
6/21/2022	30.82	<5.0	<2.0	30.82	164.61	179.52	3.9500	2.72
6/22/2022	30.47	<5.0	<2.0	30.47	149.23	214.92	3.2500	3.82
6/23/2022	29.22	<5.0	2.0	29.22	119	199.10	2.3500	2.74
6/24/2022	31.16	<5.0	4.5	31.16	146	181.48	2.9000	3.02
6/25/2022	30.08	<5.0	<2.0	30.08	130.77	177.98	3.5500	4.50
6/26/2022	32.72	<7.1	<2.0	32.72	172.31	180.68	4	3.45
6/27/2022	53.90	<5.0	<2.0	53.90	143	136.73	9.5690	3.83
6/28/2022	55.85	<5.0	4.5	55.85	80.769	101.56	4.1000	2.23
6/29/2022	40.99	<7.9	<2.0	40.99	101.54	154.42	2.7000	2.31
6/30/2022	31.56	<5.0	<2.0	31.56	141.50	195.79	2.7000	2.48
7/1/2022	34.18	<5.0	<2.0	34.18	170	193.88	3.5500	2.58
7/2/2022	32.74	<5.0	<2.0	32.74	148	172.22	2.9000	2.11
7/3/2022	28.83	<5.0	2.0	28.83	117.50	175.15	2.3500	2.25
7/4/2022	29.70	<5.0	2.0	29.70	137.50	161.08	2.1000	2.48
7/5/2022	30.60	<5.0	2.0	30.60	177.50	145.59	2.5500	2.08
7/6/2022	30.06	<5.0	<2.0	30.06	130.50	163.61	2.6500	2.52
7/7/2022	30.37	<5.0	<2.0	30.37	156	182.13	2.7000	2.30
7/8/2022	28.95	<5.0	<2.0	28.95	141	193.01	2.5000	2.16
7/9/2022	30.09	<5.0	<2.0	30.09	169.54	189.45	2.7000	2.32
7/10/2022	28.96	<5.0	<2.0	28.96	140	167.80	3.2000	2.20
7/11/2022	29.76	<5.0	<2.0	29.76	144	171.80	2.8000	2.45
7/12/2022	36.57	<5.0	<2.0	36.57	207	175.31	5	2.39
7/13/2022	33.03	<5.0	18.9	33.03	132.50	161.34	3.5000	3.29
7/14/2022	28.90	<5.0	<2.0	28.90	124	171.55	3.6000	2.47
7/15/2022	29.13	<5.0	2.0	29.13	128	182.79	3.1000	2.64
7/16/2022	29.00	5.0	<2.0	29.00	149	174.03	2.7500	2.44
7/17/2022	32.44	<5.0	<2.0	32.44	160	155.92	2.5500	2.44
7/18/2022	36.69	<5.0	<2.0	36.69	170	164.93	4.5000	2.66
7/19/2022	34.15	5.0	<2.0	34.15	113	159.48	2.0500	2.21
7/20/2022	30.35	<5.0	<2.0	30.35	143	148.05	2.5500	2.83
7/21/2022	31.19	<5.0	<2.0	31.19	131.50	151.11	<2	2.57
7/22/2022	29.54	<5.0	4.5	29.54	126	180.17	2.2500	3.19
7/23/2022	29.82	<5.0	<2.0	29.82	116	162.24	2.4000	3.30
7/24/2022	32.17	<5.0	<2.0	32.17	135	138.27	2.2500	2.86
7/25/2022	37.32	7.1	2.0	37.32	183	160.82	2.8500	3.02
7/26/2022	29.34	<5.0	2.0	29.34	178.50	166.76	3	2.37
7/27/2022	28.69	<5.0	<2.0	28.69	133	173.24	2.3000	2.89
7/28/2022	30.34	<5.0	<2.0	30.34	189	165.19	3.2500	2.99
7/29/2022	30.19	<5.0	<2.0	30.19	149	165.25	2.1000	3.41
7/30/2022	28.27	<5.0	<2.0	28.27	119	163.39	2.4500	2.86
7/31/2022	29.93	5.0	<2.0	29.93	149	161.30	2.7000	3.11

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
8/1/2022	29.84	<5.0	<2.0	29.84	146	173.24	2.1000	2.55
8/2/2022	28.37	<5.0	2.0	28.37	142.50	177.45	<2	3.04
8/3/2022	29.11	<6.3	<2.0	29.11	148	191.27	2.3000	3.42
8/4/2022	29.27	<7.1	<2.0	29.27	148.50	176.45	2.5000	3.60
8/5/2022	28.27	<5.0	<2.0	28.27	158.50	170.85	2.7000	3.52
8/6/2022	27.95	<5.0	<2.0	27.95	117	173.03	3.1000	3.20
8/7/2022	28.19	<5.0	<2.0	28.19	137	190.54	2.4000	3.38
8/8/2022	29.12	<5.0	2.0	29.12	159	191.18	<2	3.28
8/9/2022	32.26	5.0	<2.0	32.26	175.50	199.84	2.8500	3.37
8/10/2022	25.72	<5.0	<2.0	25.72	148	179.80	2.5500	2.79
8/11/2022	34.41	<5.0	<2.0	34.41	154	172.13	2.7500	2.54
8/12/2022	26.42	<5.0	13.0	26.42	164	184.72	3.8500	2.71
8/13/2022	28.03	<5.0	<20.0	28.03	150	189.37	3.6500	2.18
8/14/2022	27.27	<5.0	<2.0	27.27	135	163.94	2.5500	2.15
8/15/2022	27.64	<5.0	2.0	27.64	187	210.52	2.7000	<2
8/16/2022	28.61	<5.0	2.0	28.61	166	181.60	2.3000	<2
8/17/2022	26.59	<5.0	<2.0	26.59	144	196.87	2.1500	2.23
8/18/2022	28.53	<7.1	23.0	28.53	177	209.59	2.4000	2.29
8/19/2022	28.17	<5.0	<2.0	28.17	178.50	196.06	3.0500	3.48
8/20/2022	27.10	<5.0	<2.0	27.10	135	234.38	2.5500	3.09
8/21/2022	27.29	<7.1	<2.0	27.29	146.50	220.70	2.6000	2.73
8/22/2022	49.14	<5.0	2.0	49.14	167	146.24	12.200	8.39
8/23/2022	61.04	<5.0	23.0	68.56	101	82.13	7.1428	3.79
8/24/2022	56.03	<6.3	<3.9	56.03	78.500	108.48	3.5500	2.87
8/25/2022	53.89	<5.0	<2.0	53.89	95	106.99	3.9000	2.92
8/26/2022	47.91	<5.0	<2.0	47.91	160	142.94	4.9500	4.69
8/27/2022	38.92	<5.0	<2.0	38.92	105	151.80	3.8000	3.30
8/28/2022	29.67	<5.0	<2.0	29.67	110.45	141.85	3.0500	2.94
8/29/2022	29.51	<5.0	2.0	29.51	163.50	171.93	3.5000	2.50
8/30/2022	31.19	<5.0	<2.0	31.19	152	175.98	3.3500	2.81
8/31/2022	31.26	5.0	2.0	31.26	154	181.58	3.1000	2.52
9/1/2022	29.52	<5.0	<2.0	29.52	184.50	208.27	3.2500	2.73
9/2/2022	27.21	<5.0	2.0	27.21	119.50	186.17	3.9000	3.14
9/3/2022	28.88	<5.0	<2.0	28.88	177.27	219.51	3.7000	2.78
9/4/2022	28.86	<5.0	2.0	28.86	169.50	171.68	2.8000	2.31
9/5/2022	63.71	<7.1	<2.0	119.63	133.33	91.99	21.200	6.29
9/6/2022	74.53	<7.1	13.0	113.57	41.250	44.67	5.3125	2.59
9/7/2022	69.50	10.9	<2.0	69.50	70.666	85.18	5.0500	2.55
9/8/2022	68.86	<10.1	2.0	68.86	70.666	85.66	4.5000	2.53
9/9/2022	71.16	<5.0	<2.0	71.16	90.400	89.73	4.9000	3.37
9/10/2022	54.46	<5.0	<2.0	54.46	90	115.38	3.4000	2.74
9/11/2022	49.74	<5.0	<2.0	49.74	111.66	128.08	4.5714	2.54
9/12/2022	43.39	17.8	<2.0	43.39	100.50	109.97	3.5000	2.51
9/13/2022	60.08	<7.1	<2.0	60.08	101.50	90.46	5.6338	2.45
9/14/2022	41.31	7.9	<3.0	41.31	105	132.16	2.2000	2.34
9/15/2022	40.55	7.1	<2.0	40.55	107.50	129.34	2.6500	2.57
9/16/2022	37.74	<5.0	<2.0	37.74	121.50	145	3.3500	2.56
9/17/2022	38.18	7.1	2.0	38.18	119	144.64	6.5625	3.14
9/18/2022	38.81	<5.0	<2.0	38.81	122	135.80	4.1000	2.30
9/19/2022	37.80	<5.0	2.0	37.80	84	141.77	4.4000	2.88
9/20/2022	36.06	7.1	2.0	36.06	131	144.47	3	<2
9/21/2022	38.42	<7.2	<2.0	38.42	124	149.38	2.4500	<2
9/22/2022	60.35	<5.0	<2.0	60.35	117	114.32	9	3.13

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
9/23/2022	62.34	<5.0	4.5	62.34	71	95	5.3333	<2
9/24/2022	44.89	5.0	<2.0	44.89	104	139.87	3.1000	2.06
9/25/2022	45.69	<5.0	7.8	45.69	126.50	158.63	4.6500	2.50
9/26/2022	38.88	<5.0	2.0	38.88	113.50	139.20	3.5000	2.04
9/27/2022	35.88	<5.0	2.0	35.88	120	146.11	3.6000	<2
9/28/2022	31.07	<5.0	<2.0	31.07	113	134.96	<2	2.14
9/29/2022	34.77	<5.0	7.8	34.77	120.50	133.91	<2	<2
9/30/2022	40.87	<5.0	49.0	40.87	125	165.50	4.2500	2.14
10/1/2022	49.84	<5.0	<2.0	49.84	130.50	151.08	5.1176	2.10
10/2/2022	35.81	<5.0	6.8	35.81	107.92	178.40	2.7500	<2
10/3/2022	35.13	<5.0	6.8	35.13	155.62	180.13	2	<2
10/4/2022	50.84	<5.0	2.0	50.84	144.50	182.39	3.3500	<2
10/5/2022	64.48	<5.0	<2.0	64.48	103.50	115.58	3.5000	<2
10/6/2022	55.71	<5.0	4.5	55.71	76	89.85	2.5000	<2
10/7/2022	51.84	<5.0	4.5	51.84	80.500	115.69	2.7000	<2
10/8/2022	40.86	<5.0	<2.0	40.86	195.50	161.26	2.7500	<2
10/9/2022	36.84	5.0	<2.0	36.84	130.50	147.49	3.1000	<2
10/10/2022	36.14	<5.0	<2.0	36.14	125.50	169.20	3.2500	2.01
10/11/2022	30.25	<5.0	<2.0	30.25	139.50	155.63	3.4000	<2
10/12/2022	41.90	<7.2	3.0	41.90	123.12	155.51	2.6000	2.06
10/13/2022	61.54	<5.0	4.5	61.54	165	136.27	5	2.96
10/14/2022	69.83	<5.0	22.0	69.83	83	95.76	6.1000	2.91
10/15/2022	65.40	<5.0	13.0	65.40	51	97.77	4.2424	2.22
10/16/2022	62.44	<5.0	<2.0	62.44	80.750	103.11	4.0314	2.39
10/17/2022	55.18	<5.0	2.0	55.18	128	144.42	2.9500	2.36
10/18/2022	36.75	<5.0	<2.0	36.75	120.50	148.81	2.7500	<2
10/19/2022	45.76	<5.0	2.8	45.76	112	184.01	3.1500	<2
10/20/2022	38.73	<5.0	<2.0	38.73	144	159.98	3.6000	5.14
10/21/2022	38.15	7.1	2.0	38.15	118.50	155.09	3.0500	2.37
10/22/2022	38.86	<5.0	<2.0	38.86	164	151.83	2.8000	2.24
10/23/2022	39.48	<5.0	<2.0	39.48	152.50	230.85	3.2500	2.13
10/24/2022	55.12	<5.0	<2.0	55.12	156.50	195.26	3.4000	2.05
10/25/2022	64.91	<5.0	<2.0	64.91	101.50	81.03	4.3000	2.39
10/26/2022	56.34	<5.0	9.7	56.34	61.500	83.45	2.4000	2.31
10/27/2022	48.47	<12.5	<2.0	48.47	83.500	146.01	2.5500	2.10
10/28/2022	39.79	<5.0	<2.0	39.79	111.43	136.92	2.2500	<2
10/29/2022	39.22	8.7	<2.0	39.22	127	152.20	2.5500	<2
10/30/2022	38.51	5.0	<2.0	38.51	288	195.32	3	<2
10/31/2022	38.91	<5.0	2.0	38.91	164.37	126.98	<2	<2
11/1/2022	36.44	<7.1	<2.0	36.44	170.71	158.14	<2	<2
11/2/2022	37.16	<5.0	4.5	37.16	232.50	142.63	<2	<2
11/3/2022	36.11	<5.0	4.5	36.11	178.57	154.82	<2	<2
11/4/2022	35.90	<5.0	2.0	35.90	158	178.52	<2	<2
11/5/2022	41.10	<5.0	4.5	41.10	123	171.12	<2	<2
11/6/2022	38.09	10.1	<2.0	38.09	161	158.53	2.1500	<2
11/7/2022	35.58	<7.1	2.0	35.58	163	181.23	<2	<2
11/8/2022	34.30	<5.0	<2.0	34.30	158.50	163.34	<2	2.03
11/9/2022	32.95	<5.0	<2.0	32.95	147.50	160.07	<2	<2
11/10/2022	35.89	<5.0	<2.0	35.89	170	165.80	2.9000	<2
11/11/2022	52.34	<5.0	<2.0	52.34	220	183.75	3.9000	2.85
11/12/2022	59.01	<5.0	2.0	59.01	97.273	124.68	2.9500	2.45
11/13/2022	38.72	<5.0	<2.0	38.72	101.93	155.56	2.0500	2.02
11/14/2022	34.38	<5.0	<2.0	34.38	119.41	153.59	3.3000	<2

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Field's Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	EffluentEnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100 mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
11/15/2022	45.54	14.3	<2.0	45.54	175	184.02	2.8500	<2
11/16/2022	52.95	<10.4	2.8	52.95	95	105.13	2.8500	<2
11/17/2022	40.73	<5.0	<2.0	40.73	77.272	125.46	<2	<2
11/18/2022	37.00	<5.0	4.5	37.00	155.62	135.95	3.1500	<2
11/19/2022	35.99	<5.0	<2.0	35.99	125.50	168	3.2000	<2
11/20/2022	35.55	10.1	<2.0	35.55	135.91	165.51	2.9500	<2
11/21/2022	36.70	<8.7	<2.0	36.70	203.50	207.70	2.7500	2.61
11/22/2022	35.29	<5.0	<2.0	35.29	210.50	202.16	2.4000	<2
11/23/2022	34.89	<5.0	<2.0	34.89	146.67	174.95	<2	2.03
11/24/2022	35.54	<5.0	<2.0	35.54	144	157.87	2.1500	<2
11/25/2022	32.20	<5.0	<2.0	32.20	163.57	194.63	<2	<2
11/26/2022	31.38	<5.0	<2.0	31.38	136.50	148.03	2.1000	2.01
11/27/2022	51.36	5.0	2.0	51.36	154.50	153.88	2.7000	2.37
11/28/2022	37.39	<5.0	<2.0	37.39	121.50	161.47	2.4000	<2
11/29/2022	34.71	5.0	<2.0	34.71	146.82	183.28	3.8500	2.40
11/30/2022	51.43	<5.0	<2.0	51.43	159.50	136.47	3.8000	2.53
12/1/2022	59.97	<5.0	<2.0	59.97	86.500	110.27	3.7000	2.70
12/2/2022	40.03	<5.0	2.0	40.03	112.14	177.54	2.1000	2.21
12/3/2022	50.14	<5.0	<2.0	50.14	114	149.11	5.3000	3.70
12/4/2022	40.70	<5.0	<2.0	40.70	95.909	155.21	3.6000	2.33
12/5/2022	37.25	<5.0	<2.0	37.25	132	181.47	2	2.25
12/6/2022	45.54	12.5	<2.0	45.54	200.50	234.58	3.2000	2.29
12/7/2022	64.77	<36.9	9.4	64.77	75.500	93.45	4.4500	3.64
12/8/2022	62.83	10.0	<2.0	62.83	70.500	110.38	3.0500	2.23
12/9/2022	44.60	<5.0	2.0	44.60	130.55	169.10	2.2000	<2
12/10/2022	39.24	<5.0	<2.0	39.24	118.50	147.12	2.6500	2.29
12/11/2022	41.58	7.1	<2.0	41.58	124.50	143.26	2.9500	<2
12/12/2022	39.96	<5.0	<2.0	39.96	128	149.14	2.7000	2.42
12/13/2022	39.96	<7.1	<2.0	39.96	143.50	162.24	2.3500	<2
12/14/2022	38.67	<5.0	<2.0	38.67	152.50	143.51	2.3500	<2
12/15/2022	48.98	<10.0	<2.0	48.98	165.50	162.40	2.4500	2.02
12/16/2022	69.76	<7.1	<2.0	69.76	82	94.24	4.1000	2.29
12/17/2022	66.33	<8.8	<2.0	66.33	72	104.48	4.5500	2.77
12/18/2022	49.60	<5.0	<2.0	49.60	91	122.60	3.0500	2.20
12/19/2022	42.52	<5.0	<2.0	42.52	120.50	166.33	2.8000	2.92
12/20/2022	42.05	<5.0	<2.0	42.05	126.50	139.39	<2	<2
12/21/2022	41.62	5.0	<3.0	41.62	119	155.24	2.2000	<2
12/22/2022	54.91	<16.4	<2.0	54.91	146	153.95	2.8000	2.34
12/23/2022	76.58	<5.0	2.0	85.28	71.923	74.44	4.0500	2.43
12/24/2022	69.92	<5.0	4.5	69.92	45.454	96.53	2.9000	2.50
12/25/2022	66.29	<7.1	<2.0	66.29	58	81.53	5.0500	2.22
12/26/2022	67.20	11.4	2.0	67.20	65.333	100.66	4	2.19
12/27/2022	56.04	5.0	<2.0	56.04	96.500	120.57	3.4000	2.03
12/28/2022	45.17	<5.0	<2.0	45.17	98.500	131.90	2.2000	<2
12/29/2022	45.16	<5.0	2.0	45.16	105	120.51	2.3000	<2
12/30/2022	43.48	<5.0	<2.0	43.48	116	134.68	2.3000	2.05
12/31/2022	56.92	5.0	<2.0	56.92	127.50	116.73	3.1000	2.30

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
1/1/2022	16.03	<7.1	4.0	16.03	128	196.61	8.0833	2.77
1/2/2022	23.90	7.1	4.5	23.90	151	220.96	6.6956	2.63
1/3/2022	15.27	<7.1	2.0	15.27	127.50	168.16	6.2857	2.46
1/4/2022	14.59	5.0	7.8	14.59	138	213.83	7.3809	2.29
1/5/2022	22.63	<5.0	3.2	22.63	147	215.36	6.5833	4.02
1/6/2022	15.61	<7.1	<2.0	15.61	169	187.93	5.5000	2.37
1/7/2022	15.79	5.0	2.4	15.79	153	212.01	5.0714	2.67
1/8/2022	14.87	<5.0	7.8	14.87	118	205.44	6.4285	2.24
1/9/2022	18.70	<7.1	7.8	18.70	130	204.50	5.4225	2.49
1/10/2022	15.54	8.8	7.8	15.54	125	175.86	8.5714	2.70
1/11/2022	14.99	<5.0	<2.0	14.99	144	229.35	8.7289	2.92
1/12/2022	15.70	<5.0	4.2	15.70	139	182.15	5.8333	2.96
1/13/2022	15.57	<10.1	6.8	15.57	158.50	216.22	6	2.93
1/14/2022	15.20	12.2	11.0	15.20	166	213.78	5.7143	2.48
1/15/2022	14.40	<10.1	2.0	14.40	165	235.18	6.6418	2.60
1/16/2022	14.44	<5.0	<2.0	14.44	168	236.38	6.7857	2.31
1/17/2022	28.47	7.1	21.0	37.31	186	186.17	11.379	4.62
1/18/2022	16.44	<7.1	4.5	16.44	97	181.37	4.8889	2.37
1/19/2022	16.20	6.3	<2.0	16.20	124	188.12	3.8750	<2
1/20/2022	17.86	<5.0	4.5	17.86	145.50	183.96	3.5625	<2
1/21/2022	14.95	<5.0	2.0	14.95	130	191.36	4.2857	<2
1/22/2022	15.31	<5.0	4.5	15.31	137	183.24	6	<2
1/23/2022	15.56	7.1	2.0	15.56	129	180.12	4.7126	2.13
1/24/2022	15.20	<5.0	2.0	15.20	141	211.93	5.7955	<2
1/25/2022	15.40	<5.0	2.0	15.40	128	214.57	5.7143	2.06
1/26/2022	14.25	12.7	3.0	14.25	131	202.99	6.0902	2.25
1/27/2022	14.55	7.1	4.5	14.55	141	191.21	5.9375	2.39
1/28/2022	15.27	<7.1	6.8	15.27	155.50	211.84	9.8571	2.55
1/29/2022	14.16	<14.3	13.0	14.16	124	199.31	6.5185	2.16
1/30/2022	14.74	<7.1	<2.0	14.74	145	211.54	5.6666	2.75
1/31/2022	14.77	<7.1	2.0	14.77	185	196.59	5.1875	2.07
2/1/2022	15.01	<5.0	2.0	15.01	152.50	207.38	4.9285	2.24
2/2/2022	15.54	<6.3	2.0	15.54	179	253.64	4.1875	<2
2/3/2022	20.57	<7.1	4.5	20.57	167.50	256.27	9	3.94
2/4/2022	36.69	44.8	13.0	58.03	204	160.61	14.375	5.30
2/5/2022	19.82	<7.1	13.0	19.82	64	130.91	30	6.27
2/6/2022	18.52	10.0	4.5	18.52	94	160.97	8.2677	2.81
2/7/2022	27.96	<5.0	<2.0	38.55	103.50	157.44	8.4286	2.51
2/8/2022	33.51	<10.0	<2.0	48.20	91.500	86.70	11.833	4.43
2/9/2022	21.57	<6.3	<2.0	21.57	86.500	130.33	7.5833	5.49
2/10/2022	22.51	<10.1	13.0	22.51	96.500	138.25	6.1428	3.05
2/11/2022	20.56	<5.0	7.8	20.56	101.50	164.39	9.7143	2.98
2/12/2022	20.43	<5.0	4.5	20.43	90	138.30	5.7954	2.27
2/13/2022	21.03	<7.1	2.0	21.03	84	143.27	6.4444	2.33
2/14/2022	19.97	52.6	<2.0	19.97	112.50	169.03	9.1666	8.52
2/15/2022	18.94	7.1	13.0	18.94	109	157.24	12.750	4.15
2/16/2022	20.32	<7.9	3.9	20.32	136.50	181.17	6.4000	2.44
2/17/2022	20.98	<7.1	2.0	20.98	129.50	150.45	7.4000	2.17
2/18/2022	34.24	<7.1	13.0	46.04	189.50	162.38	10.750	2.49
2/19/2022	23.43	<7.1	6.8	23.43	85	138.02	4.8000	<2
2/20/2022	21.41	<12.4	<2.0	21.41	86.500	155.26	6	2.01
2/21/2022	20.99	<7.1	9.3	20.99	90	138.22	6.2500	<2
2/22/2022	29.17	<7.1	7.8	33.13	113.50	149.32	9.1666	2.21

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
2/23/2022	23.72	<7.9	3.0	24.37	127	134.69	6.2857	2.01
2/24/2022	21.61	<7.1	<2.0	21.61	96.500	155.39	6.4000	2.10
2/25/2022	23.67	17.6	2.0	23.67	101	149.99	14.286	3.10
2/26/2022	20.82	<7.1	<2.0	20.82	97	136.61	16.111	3.76
2/27/2022	21.43	7.1	2.0	21.43	88	148.49	10.727	2.59
2/28/2022	20.01	31.5	4.5	20.01	103	160.84	10.400	3.23
3/1/2022	22.37	12.4	<2.0	22.37	110	154.70	25	7.49
3/2/2022	23.27	11.6	15.6	23.27	114	157.31	12.600	3.71
3/3/2022	22.26	<5.0	2.0	22.26	106	148.88	8.4667	2.81
3/4/2022	19.82	<5.0	2.0	19.82	104	171.38	9.2667	4.44
3/5/2022	20.05	<5.0	<2.0	20.05	122	153.49	3.8500	2.10
3/6/2022	21.93	<7.1	<2.0	21.93	112.50	180.17	12.133	3.95
3/7/2022	20.94	<7.1	2.0	20.94	111	154.36	8.6000	2.56
3/8/2022	20.20	<7.1	<2.0	20.20	135	177.30	6.5333	2.19
3/9/2022	23.69	<6.3	2.0	23.69	114	154.36	12.500	3.30
3/10/2022	20.67	<7.1	<2.0	20.67	135	146.28	5.8500	2.05
3/11/2022	19.36	<7.1	7.8	19.36	121	156.20	6.6000	2.03
3/12/2022	27.39	14.1	4.5	30.43	145.50	173.14	9.2666	3.04
3/13/2022	19.91	<12.4	6.8	19.91	92.400	146.82	7.9333	2.69
3/14/2022	19.49	<7.1	<2.0	19.49	96	159	5.2000	2.03
3/15/2022	19.40	<5.0	2.0	19.40	125	170.09	6.5333	2.75
3/16/2022	18.92	6.3	<2.0	18.92	121	176.78	8	2.59
3/17/2022	22.14	<5.0	2.0	22.14	118	180.95	5.3333	2.39
3/18/2022	18.30	<7.1	4.0	18.30	155	176.08	5.8667	2.37
3/19/2022	24.03	<5.0	<2.0	24.03	157	190.10	4.2500	2.53
3/20/2022	19.21	<7.1	4.5	19.21	104.50	149.48	3.9000	2.04
3/21/2022	18.06	<7.1	4.0	18.06	114.50	143.45	3.2500	<2
3/22/2022	17.66	<7.1	4.5	17.66	127	207.54	4.2500	2.26
3/23/2022	17.75	<6.3	3.0	17.75	139	197.94	4.5000	2.02
3/24/2022	30.42	<7.1	15.0	36.37	144	153.26	7.6666	3.17
3/25/2022	26.92	<7.1	6.8	30.97	103	127.97	6.6000	2.42
3/26/2022	20.39	<7.1	7.8	20.39	117.33	157.48	6.8235	2.33
3/27/2022	19.68	<5.0	4.5	19.68	100	153.50	4.6000	2.26
3/28/2022	18.92	<5.0	2.0	18.92	102	167.32	5.1500	<2
3/29/2022	18.38	<7.1	<2.0	18.38	107	194.10	4.9000	2.30
3/30/2022	18.38	<6.3	<2.0	18.38	125	166.57	5.6000	2.56
3/31/2022	19.37	16.1	4.5	19.37	127	185.52	6.6000	3.47
4/1/2022	27.12	<7.1	4.5	27.86	191	199.65	9.7333	3.98
4/2/2022	18.37	<7.1	4.5	18.37	111.92	158.68	4.8500	2.88
4/3/2022	18.78	7.1	4.5	18.78	93	147.19	5.2000	2.61
4/4/2022	17.56	<11.4	11.0	17.56	123	170.51	5.1333	2.33
4/5/2022	17.38	<12.4	6.8	17.38	146	184.49	5.0500	2.43
4/6/2022	26.26	<7.9	10.1	26.26	184	172.38	7.2667	2.90
4/7/2022	18.99	10.0	4.5	18.99	125	170.92	6.7333	2.64
4/8/2022	28.26	<7.1	4.5	33.24	159	171.95	5.8000	2.69
4/9/2022	19.86	<10.0	7.8	19.86	104	153.26	4.3114	2
4/10/2022	19.11	5.0	2.0	19.11	96	158.70	3.9500	<2
4/11/2022	18.25	<5.0	<2.0	18.25	111	175.91	4	<2
4/12/2022	18.58	<7.1	2.0	18.58	141	165.26	3.8500	3.55
4/13/2022	17.94	<6.3	2.8	17.94	142	164.96	3.8500	2.11
4/14/2022	17.29	<7.1	2.0	17.29	144	157.54	3.4000	<2
4/15/2022	17.04	<7.1	2.0	17.04	142	173.02	4.2000	<2
4/16/2022	17.74	<7.1	2.0	17.74	141	195.18	4.9000	4.02

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
4/17/2022	21.15	14.1	2.0	21.15	151	182.87	3.5500	<2
4/18/2022	16.81	<5.0	2.0	16.81	103	175.79	3.9362	<2
4/19/2022	30.18	<7.1	4.5	38.96	163	204.84	4.8000	2.31
4/20/2022	19.70	9.2	<2.8	19.70	106	150.34	3.8000	<2
4/21/2022	19.45	<6.3	<2.0	19.45	110	153.74	4	2.11
4/22/2022	18.59	<10.0	4.5	18.59	115	160.87	4.4000	2.08
4/23/2022	18.12	<7.1	2.0	18.12	119	170.61	3.6500	<2
4/24/2022	18.43	<7.1	4.5	18.43	99	165.83	2.9000	<2
4/25/2022	18.10	<5.0	6.8	18.10	134	160.99	3.1000	<2
4/26/2022	19.18	<7.1	2.0	19.18	127	171.73	3.7500	<2
4/27/2022	18.50	7.9	3.0	18.50	136	164	3.6000	2.61
4/28/2022	17.25	<10.0	4.5	17.25	147	161.64	4.3500	<2
4/29/2022	16.72	<7.1	2.0	16.72	141	196.90	3.7500	<2
4/30/2022	16.51	<10.0	13.0	16.51	130	186.63	3.5000	<2
5/1/2022	16.36	12.5	33.0	16.36	132	172.17	2.9500	<2
5/2/2022	18.22	<7.1	<2.0	18.22	140	164.98	4.7500	<2
5/3/2022	21.95	<7.1	7.8	21.95	199	187.07	3.5500	<2
5/4/2022	21.81	<6.3	<3.0	21.81	139	168.40	3.9000	<2
5/5/2022	16.29	<7.1	11.0	16.29	142	184.85	2.8000	<2
5/6/2022	16.58	10.0	<2.0	16.58	149	162.61	2.8500	<2
5/7/2022	16.56	<14.3	4.5	16.56	138	187.29	3	<2
5/8/2022	15.46	<5.0	2.0	15.46	130	190.89	3.2000	<2
5/9/2022	15.56	<7.1	2.0	15.56	133	179.94	3.3000	<2
5/10/2022	15.45	5.0	2.0	15.45	159	137.61	3.8500	<2
5/11/2022	15.51	11.6	3.0	15.51	166	184.93	5.2000	<2
5/12/2022	15.00	7.1	4.0	15.00	180	192.06	3.2000	<2
5/13/2022	15.14	<7.1	<2.0	15.14	170	177.33	3.1500	<2
5/14/2022	15.04	<7.1	<2.0	15.04	177	188.97	2.3000	2.12
5/15/2022	15.08	<7.1	2.0	15.08	157.50	184.02	3.2000	<2
5/16/2022	16.62	<5.0	<2.0	16.62	155	98.98	2.9000	<2
5/17/2022	15.09	<7.1	6.8	15.09	237	206.43	3.1500	<2
5/18/2022	14.24	<5.0	4.5	14.24	163	241.22	3	<2
5/19/2022	15.77	<7.1	2.0	15.77	166	191.02	2.8000	<2
5/20/2022	14.51	<7.1	4.5	14.51	176	204.24	3.1000	<2
5/21/2022	17.59	12.4	4.5	17.59	182.50	174.49	3	<2
5/22/2022	13.73	<5.0	4.0	13.73	117.27	166.51	2.5500	<2
5/23/2022	13.63	<5.0	4.5	13.63	134	189.31	<2	<2
5/24/2022	13.96	<7.1	7.8	13.96	141.36	224.66	2.7500	<2
5/25/2022	14.01	<6.3	<2.0	14.01	155	223.22	2.1500	<2
5/26/2022	14.07	<5.0	7.8	14.07	211	239.37	2.9000	<2
5/27/2022	14.31	<5.0	11.0	14.31	188	213.51	4.7000	<2
5/28/2022	20.16	<7.1	23.0	20.16	127.73	159.89	3.1500	<2
5/29/2022	12.81	<5.0	2.0	12.81	141	215.97	2.3000	<2
5/30/2022	12.93	<5.0	<2.0	12.93	134.09	188	2.1000	<2
5/31/2022	13.14	<7.1	7.8	13.14	143.64	210.36	2.6000	<2
6/1/2022	13.90	<6.3	11.8	13.90	159.55	234.20	3.1500	<2
6/2/2022	14.02	<7.1	17.0	14.02	195	232.84	2.7778	<2
6/3/2022	13.38	<7.1	7.8	13.38	173	199.72	3.0500	2.03
6/4/2022	13.60	<7.1	4.5	13.60	180.77	195.30	3.1000	<2
6/5/2022	12.79	<5.0	4.5	12.79	152.73	210.62	2.7000	<2
6/6/2022	13.09	8.7	13.0	13.09	168	223.95	2.9500	<2
6/7/2022	13.48	<7.1	7.8	13.48	178.18	218.34	4.6500	<2
6/8/2022	24.19	23.7	40.2	28.82	387.50	309.20	5	2.54

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
6/9/2022	23.27	19.1	79.0	28.18	166.50	185.59	6.5555	2.38
6/10/2022	13.95	<7.1	17.0	13.95	130	211.48	2.8000	<2
6/11/2022	13.56	<7.1	4.5	13.56	148	189.40	2.9500	<2
6/12/2022	13.69	<5.0	7.8	13.69	150.50	213.66	4.2500	<2
6/13/2022	20.60	<5.0	4.5	20.60	159	184.33	5.2000	2.69
6/14/2022	12.95	<7.1	23.0	12.95	163.50	191.39	3.7000	2.15
6/15/2022	13.19	<6.3	5.9	13.19	168	216.11	3.1000	2.51
6/16/2022	13.72	<7.1	4.5	13.72	190.50	199.40	2.8500	<2
6/17/2022	17.92	<5.0	7.8	17.92	170	209.25	4.5500	2.45
6/18/2022	13.46	<7.1	33.0	13.46	164	182.90	3.3500	<2
6/19/2022	14.35	<5.0	23.0	14.35	125	188.90	4.2500	2.08
6/20/2022	12.67	<5.0	4.5	12.67	154	213.13	3.8000	2.14
6/21/2022	12.68	<7.1	4.5	12.68	171.50	235.25	3.1000	<2
6/22/2022	13.07	<6.3	11.0	13.07	191.50	242.09	2.9000	2.17
6/23/2022	13.73	<5.0	33.0	13.73	197	214.64	3.5000	2.16
6/24/2022	12.72	<7.1	<2.0	12.72	163	210.22	3.5000	2.09
6/25/2022	11.70	<7.1	7.8	11.70	176.50	236.31	3.2500	2.09
6/26/2022	12.08	<5.0	2.0	12.08	162.50	211	4.1000	2.21
6/27/2022	23.97	<5.0	6.8	31.69	184	226.58	6.9677	2.63
6/28/2022	13.28	<7.1	7.8	13.28	167.50	152.84	4.2500	2.54
6/29/2022	13.00	<5.0	22.2	13.00	168.50	200.58	4.1500	2.27
6/30/2022	12.60	12.4	14.0	12.60	183.50	228.53	3.9444	2.50
7/1/2022	12.97	<7.1	23.0	12.97	188	258.12	4.5500	2.59
7/2/2022	21.51	<7.1	7.8	21.51	194.50	175.83	5.4500	3.17
7/3/2022	12.25	<5.0	17.0	12.25	59	185.41	3.7000	2.45
7/4/2022	11.59	<5.0	14.0	11.59	133.50	158.88	2.8500	2.41
7/5/2022	13.26	<7.1	7.8	13.26	148	151.09	3.6000	2.45
7/6/2022	12.65	<6.3	26.9	12.65	177	212.71	3.8000	2.40
7/7/2022	12.55	<7.1	33.0	12.55	183	215.79	3.5500	2.31
7/8/2022	12.68	12.4	79.0	12.68	182	223.71	3.3500	2.22
7/9/2022	11.84	<7.1	33.0	11.84	183.50	244.52	4.5500	2.44
7/10/2022	11.70	<7.1	17.0	11.70	168	202.29	4.2500	2.75
7/11/2022	12.75	<5.0	13.0	12.75	169	205.01	3.9500	2.77
7/12/2022	13.08	<5.0	33.0	13.08	201	199.91	5	2.59
7/13/2022	10.86	<7.9	85.7	10.86	196	207.87	4.8125	2.64
7/14/2022	9.96	<5.0	17.0	9.96	188.50	238.37	5.5000	2.85
7/15/2022	9.39	<5.0	9.2	9.39	168	236.10	4.3000	2.53
7/16/2022	9.23	<5.0	13.0	9.23	174	199.25	4.9412	2.77
7/17/2022	9.37	<5.0	11.0	9.37	170	173.93	4.4000	2.40
7/18/2022	13.36	<5.0	7.8	13.36	176	196.44	4.9333	2.62
7/19/2022	10.65	<7.1	79.0	10.65	177	157.16	4.4000	3
7/20/2022	11.38	<6.3	32.1	11.38	171	200.51	3.9500	2.49
7/21/2022	11.35	<5.0	13.0	11.35	168	210.15	5	2.75
7/22/2022	11.13	<7.1	220.0	11.13	181	209.35	4.1500	2.81
7/23/2022	10.83	<7.1	110.0	10.83	173	256.14	5.0588	2.68
7/24/2022	10.75	<7.1	49.0	10.75	162	180.79	4.6000	2.43
7/25/2022	12.70	<5.0	11.0	12.70	159	202.32	4.8000	2.91
7/26/2022	12.79	<7.1	79.0	12.79	203.50	211.31	4	2.41
7/27/2022	12.05	<6.3	17.9	12.05	192	207.34	3.3500	2.23
7/28/2022	13.76	<5.0	17.0	13.76	118	166.42	4.0625	2.14
7/29/2022	13.86	<5.0	7.8	13.86	185	226.89	4.1500	2.27
7/30/2022	11.43	<5.0	33.0	11.43	152	190.53	4.0500	2.10
7/31/2022	9.88	<7.1	33.0	9.88	150	175	4.3750	2.05

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
8/1/2022	12.35	10.0	17.0	12.35	162	191.14	4.2000	2.28
8/2/2022	10.57	<7.1	7.8	10.57	174	252.74	4.1000	2.01
8/3/2022	10.15	<6.3	23.7	10.15	172	262.29	3.7000	2.11
8/4/2022	10.49	<7.1	7.8	10.49	187	223.73	8.6000	4.69
8/5/2022	10.00	<7.1	2.0	10.00	206	240.73	4	2.14
8/6/2022	10.13	<7.1	23.0	10.13	207	235.82	3.8000	2.01
8/7/2022	10.13	<5.0	<2.0	10.13	161	210.07	3	<2
8/8/2022	10.42	<5.0	17.0	10.42	183	231.87	3.5000	<2
8/9/2022	17.61	<5.0	4.0	17.61	188.75	276.86	5.8500	2.59
8/10/2022	10.76	7.9	27.5	10.76	265	266.51	5	2.69
8/11/2022	10.84	<7.1	13.0	10.84	181.50	220.50	6.5625	2.13
8/12/2022	13.53	<5.0	13.0	13.53	190.50	219.91	5.8750	2.69
8/13/2022	9.97	<10.0	50.5	9.97	163	193.96	5.4444	2.21
8/14/2022	9.64	<5.0	17.0	9.64	155	243.53	4.3500	2.42
8/15/2022	9.93	<5.0	17.0	9.93	173.50	269.12	4.7500	2.12
8/16/2022	10.22	<7.1	4.5	10.22	191	253.53	5.2000	2.43
8/17/2022	10.32	<6.3	7.3	10.32	205	264.54	5.7500	3.29
8/18/2022	9.95	<7.1	13.0	9.95	224	236.23	4.7500	2.53
8/19/2022	9.67	<7.1	4.5	9.67	214	224.52	6.6875	2.94
8/20/2022	9.62	<7.1	23.0	9.62	194	249.42	6.5000	3.37
8/21/2022	9.59	<5.0	33.0	9.59	176	263.22	6.9500	4.19
8/22/2022	22.24	<5.0	33.0	27.81	190	256.55	10.300	4.57
8/23/2022	22.53	10.0	79.0	30.96	133	168.28	8.5000	4.20
8/24/2022	12.30	<6.3	20.1	12.30	118	130.16	5.4000	3.26
8/25/2022	10.91	<7.1	14.0	10.91	163	191.90	5.3000	2.78
8/26/2022	19.29	<7.1	23.0	19.43	180	201.99	8.2500	4.67
8/27/2022	11.03	<7.1	23.0	11.03	142.27	163.33	5.6000	2.63
8/28/2022	10.46	<5.0	23.0	10.46	148.50	193.82	4.2500	2.07
8/29/2022	11.12	<7.1	11.0	11.12	158.50	224.34	4.6500	2.16
8/30/2022	11.22	<10.0	4.5	11.22	174	215.65	5.2500	2.42
8/31/2022	15.04	<6.3	40.2	15.04	171	210.74	6.2143	2.70
9/1/2022	10.46	<10.0	4.5	10.46	161.50	227.71	5.8750	2.49
9/2/2022	10.05	<7.1	13.0	10.05	174.50	208.22	6	2.75
9/3/2022	10.05	<7.1	7.8	10.05	181	214	6.5000	2.60
9/4/2022	9.92	<7.1	11.0	9.92	193	201.89	5.9500	2.23
9/5/2022	26.20	<5.0	79.0	53.88	193.50	205.49	8.6000	3.45
9/6/2022	36.29	<7.1	13.0	63.26	52.333	44.27	6.3750	3.65
9/7/2022	20.96	<6.3	26.9	20.96	85.666	91.58	7.6250	3.79
9/8/2022	17.45	<7.1	23.0	17.45	120.50	140.52	7.3125	7.53
9/9/2022	15.52	<7.1	330.0	15.52	123	127.70	6.4500	3.97
9/10/2022	14.57	<7.1	23.0	14.57	149.50	147.65	6.3000	3.05
9/11/2022	14.85	<5.0	23.0	14.85	111	135.68	5.7062	2.07
9/12/2022	16.46	<5.0	49.0	16.46	169	160.06	5	2.50
9/13/2022	21.85	<7.1	13.0	23.36	142	133.60	5.5618	2.56
9/14/2022	14.56	7.2	17.3	14.56	132	138.47	5	2.33
9/15/2022	13.64	<7.1	46.0	13.64	139	148.39	4.9333	2.44
9/16/2022	13.32	5.0	31.0	13.32	154.50	187.76	4.4375	2.13
9/17/2022	13.19	<5.0	4.5	13.19	126	151.74	7.4285	2.18
9/18/2022	13.41	<5.0	4.5	13.41	224.29	170.31	3.8500	2.17
9/19/2022	13.93	<5.0	7.8	13.93	147	166.65	4.2500	2.25
9/20/2022	13.42	<7.1	33.0	13.42	185	172.31	4.1500	<2
9/21/2022	13.20	<6.3	21.5	13.20	161.43	164.83	3.7500	<2
9/22/2022	26.19	<5.0	13.0	34.95	164.29	167.20	5.4667	2.81

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
9/23/2022	14.18	<7.1	4.0	14.18	103	113.45	4.7059	2.08
9/24/2022	13.34	<5.0	13.0	13.34	117	165.59	4.1500	<2
9/25/2022	13.92	<5.0	17.0	13.92	121.50	176.86	4.7000	2.13
9/26/2022	16.85	<7.1	49.0	16.85	158	165.71	3.9000	<2
9/27/2022	13.23	<5.0	9.3	13.23	140.50	165.39	4.5500	<2
9/28/2022	12.91	<5.0	3.9	12.91	150	164.55	4.1250	<2
9/29/2022	12.70	<7.1	49.0	12.70	148.46	149	4.1500	<2
9/30/2022	12.75	<7.1	2.0	12.75	154.29	186.01	4.2500	<2
10/1/2022	19.85	<5.0	4.5	19.85	196.50	208.22	6.4285	2.56
10/2/2022	13.19	<7.1	4.5	13.19	120	176.25	4.8000	2.06
10/3/2022	13.14	<7.1	11.0	13.14	128.50	183.06	4.7500	<2
10/4/2022	20.60	<7.1	2.0	24.03	151	197.39	5.6250	2.31
10/5/2022	20.98	<6.3	7.6	23.56	171	162.43	6.2000	2.23
10/6/2022	14.93	<7.1	11.0	14.93	156	140.06	5.3500	2.08
10/7/2022	13.38	<5.0	11.0	13.38	130.71	162.83	4.5000	2.04
10/8/2022	13.67	<5.0	23.0	13.67	99	172.79	4.3500	2.38
10/9/2022	12.56	<5.0	7.8	12.56	153.50	215.34	5.1500	2.03
10/10/2022	13.14	<5.0	4.0	13.14	119.50	192.73	3.7500	2.43
10/11/2022	12.52	<5.0	13.0	12.52	154.50	215.30	4.3750	7.55
10/12/2022	12.83	<5.0	10.1	12.83	171.66	229.22	4.3125	2.25
10/13/2022	23.35	<5.0	4.5	28.31	198	186.49	6.7647	2.49
10/14/2022	31.21	<17.5	11.0	44.02	124.50	106.08	15.400	4.56
10/15/2022	15.72	<7.1	14.0	15.72	110	141.95	4.0500	<2
10/16/2022	15.37	<7.1	17.0	15.37	114	157.24	4.1000	<2
10/17/2022	20.17	<7.1	4.5	20.17	132	181.54	4.3500	2.21
10/18/2022	18.54	<7.1	13.0	18.54	128.50	160.26	3.8000	2.27
10/19/2022	15.20	6.3	3.0	15.20	123.50	184.08	3.6111	<2
10/20/2022	14.89	<7.1	21.0	14.89	138	193.94	4.3750	<2
10/21/2022	14.41	<7.1	4.5	14.41	146	172.72	3.6875	<2
10/22/2022	14.11	<5.0	7.8	14.11	136	176.33	2.9000	<2
10/23/2022	15.27	<5.0	4.5	15.27	124	210.76	3.4500	<2
10/24/2022	21.01	<7.1	17.0	22.87	153	185.59	3.7500	<2
10/25/2022	19.94	<7.1	2.0	19.94	145	154.96	5.3333	2.34
10/26/2022	18.90	<6.3	19.5	18.90	127.14	147.24	3.5000	2.20
10/27/2022	14.40	<7.1	22.0	14.40	134.61	200.43	3.2000	<2
10/28/2022	14.34	<7.1	2.0	14.34	148.33	194.58	2.9500	<2
10/29/2022	13.87	<7.1	33.0	13.87	123	162.83	3	<2
10/30/2022	13.75	<7.1	9.2	13.75	122	197.89	3.2000	<2
10/31/2022	14.12	<7.1	7.8	14.12	135.62	170.03	3.0500	<2
11/1/2022	15.22	<7.1	17.0	15.22	153.57	202.76	2.7000	<2
11/2/2022	13.43	<6.3	13.4	13.43	154.17	197.89	2.9000	<2
11/3/2022	13.58	<5.0	13.0	13.58	155.83	219.17	3.5000	<2
11/4/2022	13.41	<7.1	23.0	13.41	149	199.68	2.8000	<2
11/5/2022	13.72	<5.0	4.5	13.72	172.14	239.12	2.8500	<2
11/6/2022	13.62	<5.0	4.5	13.62	159	197.32	2.8000	<2
11/7/2022	12.97	<5.0	2.0	12.97	140	217.62	2.2000	<2
11/8/2022	12.63	7.1	13.0	12.63	147	213.45	3.2000	<2
11/9/2022	12.41	<6.3	10.1	12.41	198.33	269.77	3	<2
11/10/2022	12.77	<5.0	49.0	12.77	195.50	276.36	3.6000	2.04
11/11/2022	21.32	<7.1	13.0	23.54	172.14	267.51	11.403	3.56
11/12/2022	21.76	<7.1	23.0	24.91	165.50	175.44	5.1500	2.94
11/13/2022	15.85	<7.1	2.0	15.85	126.50	181.81	4.5500	2.28
11/14/2022	13.29	<7.1	4.0	13.29	100	194.26	2.8500	6.42

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2022 Wastewater Treatment Plant
TSS, CBOD, and Bacteria Data

Date	Final Effluent Flow (MGD)	Effluent EnterococciBacteriaDailyGeometricMean(MPN/100mL)	Effluent Fecal Coliform Bacteria Daily Geometric Mean (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
11/15/2022	13.18	<7.1	11.0	13.18	151.87	192.48	10	3.91
11/16/2022	29.09	18.6	51.1	29.84	157	151.97	11.800	5.62
11/17/2022	14.45	<7.1	26.0	14.45	155	139.67	4.9500	2.77
11/18/2022	13.92	<5.0	4.0	13.92	128.75	207.62	4.4500	2.41
11/19/2022	13.92	<7.1	7.8	13.92	135	190.71	4.6500	2.39
11/20/2022	13.87	<5.0	7.8	13.87	123.50	191.65	4.2500	<2
11/21/2022	13.57	<7.1	7.8	13.57	142	225.74	4.8333	2.31
11/22/2022	13.47	<7.1	6.8	13.47	154	234.89	4.6250	2.10
11/23/2022	13.74	<6.3	7.8	13.74	147	153.65	4.3000	<2
11/24/2022	13.67	<7.1	2.0	13.67	159.29	257.10	4.2000	<2
11/25/2022	13.42	<7.1	7.8	13.42	148.33	253.90	3.6500	<2
11/26/2022	12.84	<7.1	<2.0	12.84	181.50	226.57	4.7000	<2
11/27/2022	21.94	<7.1	2.0	24.11	166.50	250.56	6.7500	2.72
11/28/2022	14.62	<12.4	4.5	14.62	157.50	189.02	5	2.01
11/29/2022	13.29	<5.0	7.8	13.29	172	205.59	4.8000	<2
11/30/2022	23.44	<10.0	13.4	31.87	132.50	195.83	9.5296	2.66
12/1/2022	14.94	<7.1	2.0	14.94	118	121.95	5.4500	<2
12/2/2022	14.40	<5.0	13.0	14.40	170.71	184.79	4.9000	<2
12/3/2022	22.32	<5.0	4.5	24.16	406.66	210.65	6.1500	2.49
12/4/2022	15.08	<7.1	4.5	15.08	196.50	142.99	6.3500	2.32
12/5/2022	14.87	<5.0	4.5	14.87	139	221.97	4.4500	<2
12/6/2022	15.17	<12.2	6.8	15.17	149	207.60	5.5000	2.02
12/7/2022	33.35	17.9	9.4	43.65	152	166.10	5	<2
12/8/2022	16.79	10.0	7.8	16.79	166.25	131.44	4.9000	<2
12/9/2022	16.29	<10.0	<2.0	16.29	143.12	170.61	4.0500	<2
12/10/2022	16.45	<7.1	4.5	16.45	213	174.02	5.5000	2.08
12/11/2022	16.34	5.0	2.0	16.34	137.50	208.86	5.3000	<2
12/12/2022	15.85	<7.1	4.5	15.85	142.50	204.04	4.1500	4.94
12/13/2022	15.59	<7.1	4.0	15.59	141.50	209.29	4.7500	2.18
12/14/2022	15.13	<6.3	<2.0	15.13	171.50	191.54	4.7000	<2
12/15/2022	15.58	<7.1	<2.0	15.58	208.57	171.85	5.5500	2.23
12/16/2022	35.98	<7.1	13.0	50.90	290.72	162.23	7.2000	2.25
12/17/2022	20.10	<7.1	2.0	20.10	102.50	139.63	8.2000	3.13
12/18/2022	18.05	<5.0	2.0	18.05	104	165.17	6.0500	2.24
12/19/2022	17.73	<5.0	6.8	17.73	105	204.10	4.4500	2.17
12/20/2022	17.00	<19.1	2.0	17.00	113	177.78	5.4000	2.18
12/21/2022	16.65	<10.0	3.0	16.65	135	227.97	5.7000	2.21
12/22/2022	22.80	7.1	7.8	22.80	145.50	213.98	6.0500	2.31
12/23/2022	31.75	<7.1	6.8	60.44	149.50	126.67	8.4286	2.45
12/24/2022	24.17	<7.1	2.0	24.17	59.500	127.61	7.5500	3.18
12/25/2022	21.25	<10.0	4.5	21.25	91	156.06	3.8500	<2
12/26/2022	20.32	<10.0	2.0	20.32	96	164.26	5.2000	<2
12/27/2022	20.24	<10.0	4.5	20.24	100	155.70	5.6875	2.08
12/28/2022	19.54	<6.3	3.0	19.54	134	166.98	6.2000	2.47
12/29/2022	18.77	<5.0	7.8	18.77	114.50	173.87	7.3000	3.05
12/30/2022	18.79	7.1	7.8	18.79	119	154.44	7.2666	2.86
12/31/2022	25.14	<7.1	4.5	25.14	135.50	171.12	6.6500	2.79

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
1/1/2022	Saturday	2.0				5.0		142.0		
1/2/2022	Sunday	2.0				15.5		5.0		
1/3/2022	Monday	1.0				5.0		15.0		
1/4/2022	Tuesday	2.0				10.0		15.5		
1/5/2022	Wednesday	2.0	1.0			<5.0	<5.0	<5.0		
1/6/2022	Thursday	<2.0				10.0		<5.0		
1/7/2022	Friday	1.0				15.5		31.5		
1/8/2022	Saturday	<2.0				20.5		15.5		
1/9/2022	Sunday	<2.0				10.0		5.0		
1/10/2022	Monday	<2.0				<5.0		5.0		
1/11/2022	Tuesday	<2.0				<5.0		10.0		
1/12/2022	Wednesday	<2.0	<2.0			5.0	5.0	10.0		
1/13/2022	Thursday	<2.0				15.5		<5.0		
1/14/2022	Friday	33.0		<2.0	<2.0	<5.0		<5.0	20.5	10.0
1/15/2022	Saturday	<2.0				5.0		<5.0		
1/16/2022	Sunday	<2.0				5.0		<5.0		
1/17/2022	Monday	4.5				31.5		43.0		
1/18/2022	Tuesday	4.5				20.5		15.5		
1/19/2022	Wednesday	<2.0	<2.0			15.5	15.0	37.5		
1/20/2022	Thursday	<2.0				5.0		20.5		
1/21/2022	Friday	<2.0				5.0		5.0		
1/22/2022	Saturday	<2.0				<5.0		<5.0		
1/23/2022	Sunday	2.0				<5.0		31.5		
1/24/2022	Monday	<2.0				<5.0		5.0		
1/25/2022	Tuesday	<2.0				10.0		<5.0		
1/26/2022	Wednesday	<2.0	<2.0			10.0	<5.0	<5.0		
1/27/2022	Thursday	<2.0				<5.0		5.0		
1/28/2022	Friday	<2.0				<5.0		<5.0		
1/29/2022	Saturday	<2.0				5.0		15.0		
1/30/2022	Sunday	<2.0				5.0		10.0		
1/31/2022	Monday	2.0				10.0		10.0		
2/1/2022	Tuesday	<2.0				<5.0		<5.0		
2/2/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	5.0		
2/3/2022	Thursday	<2.0				5.0		10.0		
2/4/2022	Friday	4.5				67.5		20.5		
2/5/2022	Saturday	<2.0				5.0		10.0		
2/6/2022	Sunday	<2.0				103.0		60.5		
2/7/2022	Monday	2.0				26.0		52.0		
2/8/2022	Tuesday	<2.0				42.5		43.0		
2/9/2022	Wednesday	<2.0	2.0			48.5	42.5	91.5		
2/10/2022	Thursday	<2.0				48.0		31.5		
2/11/2022	Friday	6.8				20.5		26.0		
2/12/2022	Saturday	<2.0				73.0		<5.0		
2/13/2022	Sunday	2.0				<5.0		5.0		
2/14/2022	Monday	2.0				5.0		10.0		
2/15/2022	Tuesday	2.0				<5.0		<5.0		
2/16/2022	Wednesday	<2.0	<2.0			10.0	15.0	41.0		
2/17/2022	Thursday	2.0				86.0		201.0		
2/18/2022	Friday	<2.0		<2.0		252.0		20.5	<10.0	
2/19/2022	Saturday	<2.0				5.0		31.5		
2/20/2022	Sunday	<2.0				5.0		37.0		
2/21/2022	Monday	<2.0				5.0		5.0		
2/22/2022	Tuesday	<2.0				5.0		41.0		
2/23/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	10.0		
2/24/2022	Thursday	<2.0				<5.0		10.0		
2/25/2022	Friday	2.0				20.0		48.5		
2/26/2022	Saturday	<2.0				26.0		15.0		
2/27/2022	Sunday	<2.0				10.0		5.0		
2/28/2022	Monday	<2.0				15.5		31.5		
3/1/2022	Tuesday	<2.0				10.0		10.0		
3/2/2022	Wednesday	<2.0	<2.0			<5.0	10.0	15.5		
3/3/2022	Thursday	<2.0				5.0		5.0		
3/4/2022	Friday	<2.0				<5.0		5.0		
3/5/2022	Saturday	4.5				<5.0		10.0		
3/6/2022	Sunday	<2.0				10.0		10.0		
3/7/2022	Monday	<2.0				<5.0		15.5		
3/8/2022	Tuesday	<2.0				15.5		30.0		
3/9/2022	Wednesday	<2.0	<2.0			5.0	15.0	<5.0		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
3/10/2022	Thursday	<2.0				<5.0		10.0		
3/11/2022	Friday	2.0				<5.0		<5.0		
3/12/2022	Saturday	<2.0				5.0		20.5		
3/13/2022	Sunday	<2.0				10.0		<5.0		
3/14/2022	Monday	<2.0				10.0		20.5		
3/15/2022	Tuesday	<2.0				<5.0		5.0		
3/16/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	10.0		
3/17/2022	Thursday	<2.0				15.0		5.0		
3/18/2022	Friday	<2.0				20.5		<5.0		
3/19/2022	Saturday	<2.0				<5.0		<5.0		
3/20/2022	Sunday	<2.0				15.5		5.0		
3/21/2022	Monday	<2.0				5.0		5.0		
3/22/2022	Tuesday	<2.0				15.5		10.0		
3/23/2022	Wednesday	<2.0	<2.0			5.0	15.5	<5.0		
3/24/2022	Thursday	<2.0				10.0		26.0		
3/25/2022	Friday	<2.0				20.5		<5.0		
3/26/2022	Saturday	<2.0				5.0		<5.0		
3/27/2022	Sunday	<2.0				<5.0		5.0		
3/28/2022	Monday	<2.0				<5.0		<5.0		
3/29/2022	Tuesday	<2.0				<5.0		5.0		
3/30/2022	Wednesday	2.0	<2.0			<5.0	15.5	5.0		
3/31/2022	Thursday	<2.0				<5.0		20.5		
4/1/2022	Friday	<2.0				26.0		<5.0		
4/2/2022	Saturday	<2.0				<5.0		5.0		
4/3/2022	Sunday	<2.0				<5.0		5.0		
4/4/2022	Monday	<2.0				<5.0		<5.0		
4/5/2022	Tuesday	<2.0				5.0		<5.0		
4/6/2022	Wednesday	<2.0	2.0			15.5	10.0	10.0		
4/7/2022	Thursday	<2.0				10.0		36.5		
4/8/2022	Friday	2.0				5.0		<5.0		
4/9/2022	Saturday	<2.0				<5.0		15.5		
4/10/2022	Sunday	<2.0				5.0		10.0		
4/11/2022	Monday	<2.0				<5.0		5.0		
4/12/2022	Tuesday	<2.0				5.0		5.0		
4/13/2022	Wednesday	<2.0	<2.0			5.0	<5.0	5.0		
4/14/2022	Thursday	<2.0				<5.0		<5.0		
4/15/2022	Friday	<2.0				<5.0		5.0		
4/16/2022	Saturday	<2.0				5.0		20.5		
4/17/2022	Sunday	2.0				<5.0		10.0		
4/18/2022	Monday	<2.0				<5.0		25.0		
4/19/2022	Tuesday	4.0				15.0		31.5		
4/20/2022	Wednesday	<2.0	<2.0			10.0	5.0	10.0		
4/21/2022	Thursday	<2.0				5.0		<5.0		
4/22/2022	Friday	<2.0				<5.0		<5.0		
4/23/2022	Saturday	<2.0				5.0		5.0		
4/24/2022	Sunday	<2.0				<5.0		5.0		
4/25/2022	Monday	<2.0				<5.0		5.0		
4/26/2022	Tuesday	<2.0				5.0		<5.0		
4/27/2022	Wednesday	<2.0	<2.0			5.0	5.0	5.0		
4/28/2022	Thursday	<2.0				5.0		5.0		
4/29/2022	Friday	<2.0				<5.0		5.0		
4/30/2022	Saturday	2.0				10.0		5.0		
5/1/2022	Sunday	<2.0				5.0		5.0		
5/2/2022	Monday	2.0				<5.0		20.5		
5/3/2022	Tuesday	<2.0				<5.0		5.0		
5/4/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
5/5/2022	Thursday	<2.0				<5.0		<5.0		
5/6/2022	Friday	<2.0				<5.0		<5.0		
5/7/2022	Saturday	<2.0				10.0		<5.0		
5/8/2022	Sunday	<2.0				5.0		<5.0		
5/9/2022	Monday	<2.0				<5.0		5.0		
5/10/2022	Tuesday	<2.0				<5.0		<5.0		
5/11/2022	Wednesday	<2.0	<2.0			5.0	<5.0	<5.0		
5/12/2022	Thursday	<2.0				5.0		5.0		
5/13/2022	Friday	<2.0				<5.0		<5.0		
5/14/2022	Saturday	<2.0				<5.0		5.0		
5/15/2022	Sunday	<2.0				<5.0		<5.0		
5/16/2022	Monday	<2.0				<5.0		<5.0		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
5/17/2022	Tuesday	<2.0				5.0		<5.0		
5/18/2022	Wednesday	<2.0	2.0			<5.0	<5.0	<5.0		
5/19/2022	Thursday	<2.0				<5.0		53.5		
5/20/2022	Friday	<2.0				5.0		<5.0		
5/21/2022	Saturday	<2.0				<5.0		<5.0		
5/22/2022	Sunday	2.0				<5.0		<5.0		
5/23/2022	Monday	2.0				<5.0		<5.0		
5/24/2022	Tuesday	<2.0				<5.0		<5.0		
5/25/2022	Wednesday	4.5	7.8			5.0	5.0	<5.0		
5/26/2022	Thursday	<2.0				5.0		5.0		
5/27/2022	Friday	6.8				5.0		15.0		
5/28/2022	Saturday	<2.0				5.0		<5.0		
5/29/2022	Sunday	2.0				<5.0		<5.0		
5/30/2022	Monday	<2.0				<5.0		<5.0		
5/31/2022	Tuesday	6.8				<5.0		<5.0		
6/1/2022	Wednesday	2.0	2.0			<5.0	<5.0	<5.0		
6/2/2022	Thursday	7.8				<5.0		<5.0		
6/3/2022	Friday	2.0				<5.0		<5.0		
6/4/2022	Saturday	4.5				<5.0		<5.0		
6/5/2022	Sunday	6.8				<5.0		10.0		
6/6/2022	Monday	<2.0				5.0		<5.0		
6/7/2022	Tuesday	4.5				<5.0		<5.0		
6/8/2022	Wednesday	2.0	7.8			5.0	20.5	<5.0		
6/9/2022	Thursday	13.0				<5.0		<5.0		
6/10/2022	Friday	<2.0				<5.0		<5.0		
6/11/2022	Saturday	2.0				<5.0		<5.0		
6/12/2022	Sunday	<2.0				<5.0		<5.0		
6/13/2022	Monday	2.0				5.0		<5.0		
6/14/2022	Tuesday	2.0				<5.0		<5.0		
6/15/2022	Wednesday	3.6	11.0			<5.0	<5.0	<5.0		
6/16/2022	Thursday	2.0				5.0		<5.0		
6/17/2022	Friday	<2.0				<5.0		<5.0		
6/18/2022	Saturday	2.0				5.0		<5.0		
6/19/2022	Sunday	<2.0				<5.0		5.0		
6/20/2022	Monday	<2.0				<5.0		<5.0		
6/21/2022	Tuesday	<2.0				<5.0		<5.0		
6/22/2022	Wednesday	2.0	<2.0			<5.0	<5.0	<5.0		
6/23/2022	Thursday	2.0				<5.0		<5.0		
6/24/2022	Friday	4.5				<5.0		<5.0		
6/25/2022	Saturday	<2.0				<5.0		<5.0		
6/26/2022	Sunday	<2.0				<10.0		<5.0		
6/27/2022	Monday	<2.0				<5.0		<5.0		
6/28/2022	Tuesday	4.5				<5.0		<5.0		
6/29/2022	Wednesday	2.0	<2.0			<10.0	<10.0	<5.0		
6/30/2022	Thursday	<2.0				<5.0		<5.0		
7/1/2022	Friday	<2.0				<5.0		<5.0		
7/2/2022	Saturday	<2.0				<5.0		<5.0		
7/3/2022	Sunday	2.0				<5.0		<5.0		
7/4/2022	Monday	2.0				<5.0		<5.0		
7/5/2022	Tuesday	2.0				<5.0		<5.0		
7/6/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
7/7/2022	Thursday	<2.0				<5.0		<5.0		
7/8/2022	Friday	<2.0				<5.0		<5.0		
7/9/2022	Saturday	<2.0				<5.0		<5.0		
7/10/2022	Sunday	<2.0				<5.0		<5.0		
7/11/2022	Monday	<2.0				<5.0		<5.0		
7/12/2022	Tuesday	<2.0				<5.0		<5.0		
7/13/2022	Wednesday	79.0	4.5			5.0	<5.0	5.0		
7/14/2022	Thursday	<2.0				<5.0		5.0		
7/15/2022	Friday	2.0				<5.0		<5.0		
7/16/2022	Saturday	<2.0				5.0		5.0		
7/17/2022	Sunday	<2.0				<5.0		<5.0		
7/18/2022	Monday	<2.0				<5.0		<5.0		
7/19/2022	Tuesday	<2.0				5.0		5.0		
7/20/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	5.0		
7/21/2022	Thursday	<2.0				<5.0		<5.0		
7/22/2022	Friday	4.5				<5.0		<5.0		
7/23/2022	Saturday	<2.0				<5.0		<5.0		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
7/24/2022	Sunday	<2.0				<5.0		<5.0		
7/25/2022	Monday	2.0				10.0		5.0		
7/26/2022	Tuesday	2.0				<5.0		<5.0		
7/27/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
7/28/2022	Thursday	<2.0				<5.0		<5.0		
7/29/2022	Friday	<2.0				<5.0		<5.0		
7/30/2022	Saturday	<2.0				<5.0		<5.0		
7/31/2022	Sunday	<2.0				5.0		5.0		
8/1/2022	Monday	<2.0				5.0		<5.0		
8/2/2022	Tuesday	2.0				<5.0		<5.0		
8/3/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	10.0		
8/4/2022	Thursday	<2.0				<5.0		10.0		
8/5/2022	Friday	<2.0				<5.0		<5.0		
8/6/2022	Saturday	<2.0				<5.0		<5.0		
8/7/2022	Sunday	<2.0				<5.0		<5.0		
8/8/2022	Monday	2.0				<5.0		<5.0		
8/9/2022	Tuesday	<2.0				5.0		5.0		
8/10/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
8/11/2022	Thursday	<2.0				<5.0		5.0		
8/12/2022	Friday	13.0				5.0		<5.0		
8/13/2022	Saturday	<20.0				<5.0		<5.0		
8/14/2022	Sunday	<2.0				5.0		<5.0		
8/15/2022	Monday	2.0				<5.0		<5.0		
8/16/2022	Tuesday	2.0				<5.0		<5.0		
8/17/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
8/18/2022	Thursday	23.0				10.0		<5.0		
8/19/2022	Friday	<2.0				<5.0		<5.0		
8/20/2022	Saturday	<2.0				<5.0		5.0		
8/21/2022	Sunday	<2.0				<5.0		10.0		
8/22/2022	Monday	2.0				<5.0		<5.0		
8/23/2022	Tuesday	23.0				<5.0		<5.0		
8/24/2022	Wednesday	<2.0	7.8			5.0	<5.0	10.0		
8/25/2022	Thursday	<2.0				5.0		<5.0		
8/26/2022	Friday	<2.0				<5.0		<5.0		
8/27/2022	Saturday	<2.0				<5.0		<5.0		
8/28/2022	Sunday	<2.0				<5.0		<5.0		
8/29/2022	Monday	2.0				<5.0		<5.0		
8/30/2022	Tuesday	<2.0				<5.0		<5.0		
8/31/2022	Wednesday	2.0	2.0			5.0	5.0	5.0		
9/1/2022	Thursday	<2.0				<5.0		<5.0		
9/2/2022	Friday	2.0				<5.0		<5.0		
9/3/2022	Saturday	<2.0				<5.0		<5.0		
9/4/2022	Sunday	2.0				5.0		<5.0		
9/5/2022	Monday	<2.0				<5.0		10.0		
9/6/2022	Tuesday	13.0				10.0		<5.0		
9/7/2022	Wednesday	2.0	<2.0			5.0	10.0	26.0		
9/8/2022	Thursday	2.0				20.5		<5.0		
9/9/2022	Friday	<2.0				<5.0		<5.0		
9/10/2022	Saturday	<2.0				<5.0		<5.0		
9/11/2022	Sunday	<2.0				5.0		<5.0		
9/12/2022	Monday	<2.0				15.5		20.5		
9/13/2022	Tuesday	<2.0				10.0		<5.0		
9/14/2022	Wednesday	4.5	<2.0			10.0	10.0	5.0		
9/15/2022	Thursday	<2.0				5.0		10.0		
9/16/2022	Friday	<2.0				5.0		<5.0		
9/17/2022	Saturday	2.0				5.0		10.0		
9/18/2022	Sunday	<2.0				<5.0		<5.0		
9/19/2022	Monday	2.0				<5.0		5.0		
9/20/2022	Tuesday	2.0				5.0		10.0		
9/21/2022	Wednesday	<2.0	<2.0			<5.0	5.0	15.0		
9/22/2022	Thursday	<2.0				<5.0		<5.0		
9/23/2022	Friday	4.5				<5.0		5.0		
9/24/2022	Saturday	<2.0				5.0		5.0		
9/25/2022	Sunday	7.8				<5.0		<5.0		
9/26/2022	Monday	2.0				5.0		<5.0		
9/27/2022	Tuesday	2.0				5.0		<5.0		
9/28/2022	Wednesday	<2.0	<2.0			<5.0	5.0	<5.0		
9/29/2022	Thursday	7.8				<5.0		<5.0		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
9/30/2022	Friday	49.0				<5.0		<5.0		
10/1/2022	Saturday	<2.0				<5.0		5.0		
10/2/2022	Sunday	6.8				<5.0		5.0		
10/3/2022	Monday	6.8				<5.0		<5.0		
10/4/2022	Tuesday	2.0				<5.0		<5.0		
10/5/2022	Wednesday	<2.0	<2.0			<5.0	<5.0	<5.0		
10/6/2022	Thursday	4.5				<5.0		<5.0		
10/7/2022	Friday	4.5				<5.0		<5.0		
10/8/2022	Saturday	<2.0				<5.0		<5.0		
10/9/2022	Sunday	<2.0				5.0		5.0		
10/10/2022	Monday	<2.0				<5.0		<5.0		
10/11/2022	Tuesday	<2.0				<5.0		5.0		
10/12/2022	Wednesday	4.5	2.0			<5.0	5.0	15.0		
10/13/2022	Thursday	4.5				<5.0		5.0		
10/14/2022	Friday	22.0				<5.0		<5.0		
10/15/2022	Saturday	13.0				<5.0		<5.0		
10/16/2022	Sunday	<2.0				<5.0		5.0		
10/17/2022	Monday	2.0				5.0		<5.0		
10/18/2022	Tuesday	<2.0				<5.0		<5.0		
10/19/2022	Wednesday	2.0	4.0			5.0	<5.0	<5.0		
10/20/2022	Thursday	<2.0				<5.0		<5.0		
10/21/2022	Friday	2.0				10.0		5.0		
10/22/2022	Saturday	<2.0				<5.0		<5.0		
10/23/2022	Sunday	<2.0				5.0		<5.0		
10/24/2022	Monday	<2.0				<5.0		5.0		
10/25/2022	Tuesday	<2.0				<5.0		<5.0		
10/26/2022	Wednesday	21.0	4.5			<5.0	<5.0	<5.0		
10/27/2022	Thursday	<2.0				<5.0		31.5		
10/28/2022	Friday	<2.0				5.0		<5.0		
10/29/2022	Saturday	<2.0				5.0		15.0		
10/30/2022	Sunday	<2.0				5.0		5.0		
10/31/2022	Monday	2.0				<5.0		<5.0		
11/1/2022	Tuesday	<2.0				<5.0		10.0		
11/2/2022	Wednesday	4.5	4.5			<5.0	<5.0	5.0		
11/3/2022	Thursday	4.5				<5.0		5.0		
11/4/2022	Friday	2.0				<5.0		<5.0		
11/5/2022	Saturday	4.5				<5.0		<5.0		
11/6/2022	Sunday	<2.0				5.0		20.5		
11/7/2022	Monday	2.0				10.0		<5.0		
11/8/2022	Tuesday	<2.0				5.0		<5.0		
11/9/2022	Wednesday	<2.0	<2.0			<5.0	5.0	<5.0		
11/10/2022	Thursday	<2.0				<5.0		<5.0		
11/11/2022	Friday	<2.0				<5.0		<5.0		
11/12/2022	Saturday	2.0				5.0		<5.0		
11/13/2022	Sunday	<2.0				<5.0		<5.0		
11/14/2022	Monday	<2.0				<5.0		<5.0		
11/15/2022	Tuesday	<2.0				10.0		20.5		
11/16/2022	Wednesday	4.0	2.0			15.0	15.0	<5.0		
11/17/2022	Thursday	<2.0				<5.0		5.0		
11/18/2022	Friday	4.5				<5.0		5.0		
11/19/2022	Saturday	<2.0				<5.0		<5.0		
11/20/2022	Sunday	<2.0				20.5		5.0		
11/21/2022	Monday	<2.0				<5.0		15.0		
11/22/2022	Tuesday	<2.0				<5.0		<5.0		
11/23/2022	Wednesday	<2.0	<2.0			5.0	5.0	<5.0		
11/24/2022	Thursday	<2.0				<5.0		<5.0		
11/25/2022	Friday	<2.0				<5.0		<5.0		
11/26/2022	Saturday	<2.0				<5.0		<5.0		
11/27/2022	Sunday	2.0				5.0		5.0		
11/28/2022	Monday	<2.0				<5.0		5.0		
11/29/2022	Tuesday	<2.0				5.0		5.0		
11/30/2022	Wednesday	2.0	<2.0			<5.0	<5.0	<5.0		
12/1/2022	Thursday	<2.0				<5.0		<5.0		
12/2/2022	Friday	2.0				5.0		<5.0		
12/3/2022	Saturday	<2.0				<5.0		<5.0		
12/4/2022	Sunday	<2.0				5.0		<5.0		
12/5/2022	Monday	<2.0				<5.0		<5.0		
12/6/2022	Tuesday	<2.0				5.0		31.5		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Field's Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform				Enterococci				
Date	**Day of the Week**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**	**Grab 1 (08:00*)**	**Grab 1 Duplicate (08:00*)**	**Grab 2 (04:00*)**	**Non-Routine Grabs 1**	**Non-Routine Grabs 2**
12/7/2022	Wednesday	13.0	6.8			134.0	75.0	<5.0		
12/8/2022	Thursday	<2.0				10.0		10.0		
12/9/2022	Friday	2.0				5.0		<5.0		
12/10/2022	Saturday	<2.0				<5.0		5.0		
12/11/2022	Sunday	<2.0				5.0		10.0		
12/12/2022	Monday	<2.0				<5.0		<5.0		
12/13/2022	Tuesday	<2.0				10.0		<5.0		
12/14/2022	Wednesday	<2.0	2.0			5.0	<5.0	<5.0		
12/15/2022	Thursday	<2.0				<5.0		20.0		
12/16/2022	Friday	<2.0				10.0		<5.0		
12/17/2022	Saturday	<2.0				<5.0		15.5		
12/18/2022	Sunday	<2.0				5.0		<5.0		
12/19/2022	Monday	<2.0				5.0		<5.0		
12/20/2022	Tuesday	<2.0				<5.0		<5.0		
12/21/2022	Wednesday	4.5	<2.0			5.0	5.0	5.0		
12/22/2022	Thursday	<2.0				<5.0		54.0		
12/23/2022	Friday	2.0				<5.0		<5.0		
12/24/2022	Saturday	4.5				<5.0		5.0		
12/25/2022	Sunday	<2.0				5.0		<10.0		
12/26/2022	Monday	2.0				5.0		26.0		
12/27/2022	Tuesday	<2.0				5.0		5.0		
12/28/2022	Wednesday	<2.0	<2.0			5.0	<5.0	<5.0		
12/29/2022	Thursday	2.0				<5.0		<5.0		
12/30/2022	Friday	<2.0				<5.0		5.0		
12/31/2022	Saturday	<2.0				5.0		5.0		

*Sample times are approximate

Table 3: Field's Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
1/1/2022	Saturday	4.0			<5.0	10.0		
1/2/2022	Sunday	4.5			10.0	5.0		
1/3/2022	Monday	2.0			<10.0	<5.0		
1/4/2022	Tuesday	7.8			5.0	5.0		
1/5/2022	Wednesday	3.5	2.9		5.0	5.0	<5.0	
1/6/2022	Thursday	<2.0			10.0	<5.0		
1/7/2022	Friday	2.4			5.0	5.0		
1/8/2022	Saturday	7.8			<5.0	5.0		
1/9/2022	Sunday	7.8			10.0	<5.0		
1/10/2022	Monday	7.8			5.0	15.5		
1/11/2022	Tuesday	<2.0			5.0	<5.0		
1/12/2022	Wednesday	4.5	4.0		<5.0	5.0	<5.0	
1/13/2022	Thursday	6.8			20.5	<5.0		
1/14/2022	Friday	11.0			10.0	15.0		
1/15/2022	Saturday	2.0			20.5	<5.0		
1/16/2022	Sunday	<2.0			5.0	<5.0		
1/17/2022	Monday	21.0			5.0	10.0		
1/18/2022	Tuesday	4.5			10.0	<5.0		
1/19/2022	Wednesday	<2.0	<2.0		5.0	5.0	10.0	
1/20/2022	Thursday	4.5			<5.0	<5.0		
1/21/2022	Friday	2.0			5.0	<5.0		
1/22/2022	Saturday	4.5			5.0	<5.0		
1/23/2022	Sunday	2.0			10.0	5.0		
1/24/2022	Monday	2.0			<5.0	5.0		
1/25/2022	Tuesday	2.0			<5.0	5.0		
1/26/2022	Wednesday	4.5	2.0		10.0	20.5	10.0	
1/27/2022	Thursday	4.5			10.0	5.0		
1/28/2022	Friday	6.8			10.0	<5.0		
1/29/2022	Saturday	13.0			<10.0	20.5		
1/30/2022	Sunday	<2.0			<10.0	5.0		
1/31/2022	Monday	2.0			10.0	<5.0		
2/1/2022	Tuesday	2.0			<5.0	<5.0		
2/2/2022	Wednesday	2.0	2.0		<10.0	<5.0	<5.0	
2/3/2022	Thursday	4.5			<10.0	<5.0		
2/4/2022	Friday	13.0			20.0	100.5		
2/5/2022	Saturday	13.0			<10.0	5.0		
2/6/2022	Sunday	4.5			10.0	10.0		
2/7/2022	Monday	<2.0			5.0	<5.0		
2/8/2022	Tuesday	<2.0			<10.0	10.0		
2/9/2022	Wednesday	<2.0	<2.0		<10.0	<5.0	<5.0	
2/10/2022	Thursday	13.0			<5.0	20.5		
2/11/2022	Friday	7.8			<5.0	<5.0		
2/12/2022	Saturday	4.5			<5.0	<5.0		
2/13/2022	Sunday	2.0			<5.0	10.0		
2/14/2022	Monday	<2.0			106.5	26.0		
2/15/2022	Tuesday	13.0			10.0	5.0		
2/16/2022	Wednesday	7.8	2.0		<10.0	<5.0	10.0	
2/17/2022	Thursday	2.0			10.0	<5.0		
2/18/2022	Friday	13.0			<10.0	<5.0		
2/19/2022	Saturday	6.8			10.0	<5.0		
2/20/2022	Sunday	<2.0			<10.0	15.5		
2/21/2022	Monday	9.3			<10.0	<5.0		
2/22/2022	Tuesday	7.8			<10.0	<5.0		
2/23/2022	Wednesday	2.0	4.5		<10.0	<5.0	10.0	

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
2/24/2022	Thursday	<2.0			<10.0	5.0		
2/25/2022	Friday	2.0			20.0	15.5		
2/26/2022	Saturday	<2.0			<10.0	<5.0		
2/27/2022	Sunday	2.0			10.0	5.0		
2/28/2022	Monday	4.5			66.0	15.0		
3/1/2022	Tuesday	<2.0			10.0	15.5		
3/2/2022	Wednesday	22.0	11.0		10.0	10.0	15.5	
3/3/2022	Thursday	2.0			5.0	<5.0		
3/4/2022	Friday	2.0			<5.0	<5.0		
3/5/2022	Saturday	<2.0			<5.0	<5.0		
3/6/2022	Sunday	<2.0			<10.0	5.0		
3/7/2022	Monday	2.0			<10.0	<5.0		
3/8/2022	Tuesday	<2.0			<10.0	5.0		
3/9/2022	Wednesday	2.0	2.0		<10.0	5.0	<5.0	
3/10/2022	Thursday	<2.0			<10.0	<5.0		
3/11/2022	Friday	7.8			<10.0	5.0		
3/12/2022	Saturday	4.5			20.0	10.0		
3/13/2022	Sunday	6.8			<10.0	15.5		
3/14/2022	Monday	<2.0			<10.0	5.0		
3/15/2022	Tuesday	2.0			<5.0	<5.0		
3/16/2022	Wednesday	<2.0	2.0		10.0	5.0	5.0	
3/17/2022	Thursday	2.0			<5.0	<5.0		
3/18/2022	Friday	4.0			<10.0	<5.0		
3/19/2022	Saturday	<2.0			5.0	<5.0		
3/20/2022	Sunday	4.5			<10.0	<5.0		
3/21/2022	Monday	4.0			<10.0	<5.0		
3/22/2022	Tuesday	4.5			<10.0	<5.0		
3/23/2022	Wednesday	4.5	2.0		<10.0	5.0	<5.0	
3/24/2022	Thursday	15.0			<10.0	5.0		
3/25/2022	Friday	6.8			<10.0	<5.0		
3/26/2022	Saturday	7.8			<10.0	<5.0		
3/27/2022	Sunday	4.5			5.0	<5.0		
3/28/2022	Monday	2.0			5.0	<5.0		
3/29/2022	Tuesday	<2.0			<10.0	<5.0		
3/30/2022	Wednesday	2.0	<2.0		10.0	<5.0	5.0	
3/31/2022	Thursday	4.5			52.0	5.0		
4/1/2022	Friday	4.5			<10.0	<5.0		
4/2/2022	Saturday	4.5			<10.0	<5.0		
4/3/2022	Sunday	4.5			5.0	10.0		
4/4/2022	Monday	11.0			<5.0	26.0		
4/5/2022	Tuesday	6.8			<10.0	15.5		
4/6/2022	Wednesday	13.0	7.8		10.0	10.0	<5.0	
4/7/2022	Thursday	4.5			10.0	10.0		
4/8/2022	Friday	4.5			<10.0	5.0		
4/9/2022	Saturday	7.8			<10.0	10.0		
4/10/2022	Sunday	2.0			5.0	5.0		
4/11/2022	Monday	<2.0			<5.0	5.0		
4/12/2022	Tuesday	2.0			<10.0	5.0		
4/13/2022	Wednesday	2.0	4.0		<10.0	<5.0	<5.0	
4/14/2022	Thursday	2.0			<10.0	<5.0		
4/15/2022	Friday	2.0			10.0	<5.0		
4/16/2022	Saturday	2.0			<10.0	5.0		
4/17/2022	Sunday	2.0			20.0	10.0		
4/18/2022	Monday	2.0			<5.0	5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
4/19/2022	Tuesday	4.5			<10.0	5.0		
4/20/2022	Wednesday	<2.0	4.0		31.0	5.0	5.0	
4/21/2022	Thursday	<2.0		<2.0	<10.0	5.0		<5.0
4/22/2022	Friday	4.5			20.0	<5.0		
4/23/2022	Saturday	2.0			<10.0	5.0		
4/24/2022	Sunday	4.5			10.0	<5.0		
4/25/2022	Monday	6.8			<5.0	5.0		
4/26/2022	Tuesday	2.0			<10.0	<5.0		
4/27/2022	Wednesday	2.0	4.5		10.0	5.0	10.0	
4/28/2022	Thursday	4.5			<10.0	10.0		
4/29/2022	Friday	2.0			10.0	<5.0		
4/30/2022	Saturday	13.0			<10.0	10.0		
5/1/2022	Sunday	33.0			5.0	31.5		
5/2/2022	Monday	<2.0			10.0	<5.0		
5/3/2022	Tuesday	7.8			<10.0	5.0		
5/4/2022	Wednesday	4.5	<2.0		<10.0	<5.0	<5.0	
5/5/2022	Thursday	11.0			10.0	<5.0		
5/6/2022	Friday	<2.0			10.0	10.0		
5/7/2022	Saturday	4.5			<10.0	20.5		
5/8/2022	Sunday	2.0			<5.0	<5.0		
5/9/2022	Monday	2.0			10.0	<5.0		
5/10/2022	Tuesday	2.0			5.0	5.0		
5/11/2022	Wednesday	4.5	2.0		31.0	5.0	10.0	
5/12/2022	Thursday	4.0			10.0	5.0		
5/13/2022	Friday	<2.0			10.0	<5.0		
5/14/2022	Saturday	<2.0			<10.0	<5.0		
5/15/2022	Sunday	2.0			<10.0	<5.0		
5/16/2022	Monday	<2.0			<5.0	<5.0		
5/17/2022	Tuesday	6.8			<10.0	5.0		
5/18/2022	Wednesday	4.5	4.5		5.0	<5.0	<5.0	
5/19/2022	Thursday	2.0			<10.0	5.0		
5/20/2022	Friday	4.5			10.0	<5.0		
5/21/2022	Saturday	4.5			10.0	15.5		
5/22/2022	Sunday	4.0			<5.0	<5.0		
5/23/2022	Monday	4.5			<5.0	<5.0		
5/24/2022	Tuesday	7.8			<10.0	<5.0		
5/25/2022	Wednesday	<2.0	2.0		<10.0	<5.0	<5.0	
5/26/2022	Thursday	7.8			<5.0	<5.0		
5/27/2022	Friday	11.0			<5.0	5.0		
5/28/2022	Saturday	23.0			10.0	<5.0		
5/29/2022	Sunday	2.0			<5.0	<5.0		
5/30/2022	Monday	<2.0			<5.0	5.0		
5/31/2022	Tuesday	7.8			<10.0	<5.0		
6/1/2022	Wednesday	2.0	70.0		<10.0	<5.0	<5.0	
6/2/2022	Thursday	17.0			<10.0	<5.0		
6/3/2022	Friday	7.8			<10.0	<5.0		
6/4/2022	Saturday	4.5			10.0	<5.0		
6/5/2022	Sunday	4.5			<5.0	5.0		
6/6/2022	Monday	13.0			15.0	5.0		
6/7/2022	Tuesday	7.8			<10.0	5.0		
6/8/2022	Wednesday	33.0	49.0		10.0	31.5	42.5	
6/9/2022	Thursday	79.0			10.0	36.5		
6/10/2022	Friday	17.0			<10.0	<5.0		
6/11/2022	Saturday	4.5			10.0	<5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
6/12/2022	Sunday	7.8			5.0	<5.0		
6/13/2022	Monday	4.5			<5.0	5.0		
6/14/2022	Tuesday	23.0			10.0	<5.0		
6/15/2022	Wednesday	4.5	7.8		<10.0	<5.0	<5.0	
6/16/2022	Thursday	4.5			<5.0	10.0		
6/17/2022	Friday	7.8			5.0	<5.0		
6/18/2022	Saturday	33.0			10.0	<5.0		
6/19/2022	Sunday	23.0			<5.0	<5.0		
6/20/2022	Monday	4.5			<5.0	<5.0		
6/21/2022	Tuesday	4.5			<10.0	<5.0		
6/22/2022	Wednesday	11.0	11.0		<10.0	<5.0	<5.0	
6/23/2022	Thursday	33.0			<5.0	5.0		
6/24/2022	Friday	<2.0			<10.0	<5.0		
6/25/2022	Saturday	7.8			<10.0	<5.0		
6/26/2022	Sunday	2.0			<5.0	<5.0		
6/27/2022	Monday	6.8			<5.0	<5.0		
6/28/2022	Tuesday	7.8			<10.0	5.0		
6/29/2022	Wednesday	7.8	63.0		<5.0	<5.0	<5.0	
6/30/2022	Thursday	14.0			10.0	15.5		
7/1/2022	Friday	23.0			<10.0	5.0		
7/2/2022	Saturday	7.8			<10.0	<5.0		
7/3/2022	Sunday	17.0			<5.0	<5.0		
7/4/2022	Monday	14.0			<5.0	<5.0		
7/5/2022	Tuesday	7.8			<10.0	<5.0		
7/6/2022	Wednesday	33.0	22.0		<10.0	<5.0	5.0	
7/7/2022	Thursday	33.0			<10.0	<5.0		
7/8/2022	Friday	79.0			10.0	15.5		
7/9/2022	Saturday	33.0			<10.0	<5.0		
7/10/2022	Sunday	17.0			<10.0	<5.0		
7/11/2022	Monday	13.0			<5.0	5.0		
7/12/2022	Tuesday	33.0			<5.0	<5.0		
7/13/2022	Wednesday	150.0	49.0		20.0	<5.0	5.0	
7/14/2022	Thursday	17.0			<5.0	<5.0		
7/15/2022	Friday	9.2			<5.0	<5.0		
7/16/2022	Saturday	13.0			<5.0	<5.0		
7/17/2022	Sunday	11.0			<5.0	<5.0		
7/18/2022	Monday	7.8			<5.0	<5.0		
7/19/2022	Tuesday	79.0			<10.0	5.0		
7/20/2022	Wednesday	21.0	49.0		<10.0	<5.0	<5.0	
7/21/2022	Thursday	13.0			5.0	<5.0		
7/22/2022	Friday	220.0			<10.0	5.0		
7/23/2022	Saturday	110.0			<10.0	<5.0		
7/24/2022	Sunday	49.0			<5.0	10.0		
7/25/2022	Monday	11.0			5.0	<5.0		
7/26/2022	Tuesday	79.0			<10.0	5.0		
7/27/2022	Wednesday	23.0	14.0		<10.0	5.0	<5.0	
7/28/2022	Thursday	17.0			<5.0	<5.0		
7/29/2022	Friday	7.8			5.0	<5.0		
7/30/2022	Saturday	33.0			<5.0	<5.0		
7/31/2022	Sunday	33.0			<10.0	<5.0		
8/1/2022	Monday	17.0			10.0	10.0		
8/2/2022	Tuesday	7.8			<10.0	<5.0		
8/3/2022	Wednesday	17.0	33.0		10.0	<5.0	5.0	
8/4/2022	Thursday	7.8			<10.0	<5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
8/5/2022	Friday	2.0			<10.0	<5.0		
8/6/2022	Saturday	23.0			<10.0	<5.0		
8/7/2022	Sunday	<2.0			<5.0	<5.0		
8/8/2022	Monday	17.0			5.0	<5.0		
8/9/2022	Tuesday	4.0			<5.0	<5.0		
8/10/2022	Wednesday	23.0	33.0		20.0	5.0	5.0	
8/11/2022	Thursday	13.0			<5.0	10.0		
8/12/2022	Friday	13.0			<5.0	5.0		
8/13/2022	Saturday	50.5			<10.0	10.0		
8/14/2022	Sunday	17.0			<5.0	<5.0		
8/15/2022	Monday	17.0			<5.0	<5.0		
8/16/2022	Tuesday	4.5			<10.0	5.0		
8/17/2022	Wednesday	7.8	6.8		<10.0	<5.0	<5.0	
8/18/2022	Thursday	13.0			<10.0	<5.0		
8/19/2022	Friday	4.5			10.0	<5.0		
8/20/2022	Saturday	23.0			<10.0	<5.0		
8/21/2022	Sunday	33.0			<5.0	<5.0		
8/22/2022	Monday	33.0			<5.0	<5.0		
8/23/2022	Tuesday	79.0			10.0	10.0		
8/24/2022	Wednesday	31.0	13.0		<10.0	5.0	<5.0	
8/25/2022	Thursday	14.0			<10.0	<5.0		
8/26/2022	Friday	23.0			<10.0	<5.0		
8/27/2022	Saturday	23.0			<10.0	5.0		
8/28/2022	Sunday	23.0			<5.0	<5.0		
8/29/2022	Monday	11.0			10.0	<5.0		
8/30/2022	Tuesday	4.5			20.0	<5.0		
8/31/2022	Wednesday	33.0	49.0		<10.0	<5.0	<5.0	
9/1/2022	Thursday	4.5			<10.0	10.0		
9/2/2022	Friday	13.0			<10.0	<5.0		
9/3/2022	Saturday	7.8			<10.0	<5.0		
9/4/2022	Sunday	11.0			<10.0	<5.0		
9/5/2022	Monday	79.0			<5.0	<5.0		
9/6/2022	Tuesday	13.0			<10.0	5.0		
9/7/2022	Wednesday	22.0	33.0		<10.0	5.0	5.0	
9/8/2022	Thursday	23.0			<10.0	<5.0		
9/9/2022	Friday	330.0			<10.0	5.0		
9/10/2022	Saturday	23.0			<10.0	<5.0		
9/11/2022	Sunday	23.0			<5.0	<5.0		
9/12/2022	Monday	49.0			<5.0	5.0		
9/13/2022	Tuesday	13.0			<10.0	<5.0		
9/14/2022	Wednesday	13.0	23.0		5.0	5.0	15.0	
9/15/2022	Thursday	46.0			10.0	<5.0		
9/16/2022	Friday	31.0			5.0	5.0		
9/17/2022	Saturday	4.5			<5.0	<5.0		
9/18/2022	Sunday	4.5			<5.0	<5.0		
9/19/2022	Monday	7.8			<5.0	<5.0		
9/20/2022	Tuesday	33.0			<10.0	<5.0		
9/21/2022	Wednesday	14.0	33.0		10.0	5.0	<5.0	
9/22/2022	Thursday	13.0			5.0	<5.0		
9/23/2022	Friday	4.0			<10.0	<5.0		
9/24/2022	Saturday	13.0			<5.0	<5.0		
9/25/2022	Sunday	17.0			5.0	<5.0		
9/26/2022	Monday	49.0			<10.0	5.0		
9/27/2022	Tuesday	9.3			<5.0	<5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
9/28/2022	Wednesday	2.0	7.8		<5.0	5.0	<5.0	
9/29/2022	Thursday	49.0			<10.0	<5.0		
9/30/2022	Friday	2.0			<10.0	<5.0		
10/1/2022	Saturday	4.5			<5.0	<5.0		
10/2/2022	Sunday	4.5			10.0	<5.0		
10/3/2022	Monday	11.0			<10.0	<5.0		
10/4/2022	Tuesday	2.0			10.0	<5.0		
10/5/2022	Wednesday	13.0	4.5		<10.0	<5.0	<5.0	
10/6/2022	Thursday	11.0			<10.0	<5.0		
10/7/2022	Friday	11.0			<5.0	<5.0		
10/8/2022	Saturday	23.0			<5.0	<5.0		
10/9/2022	Sunday	7.8			<5.0	<5.0		
10/10/2022	Monday	4.0			5.0	<5.0		
10/11/2022	Tuesday	13.0			<5.0	<5.0		
10/12/2022	Wednesday	13.0	7.8		<5.0	<5.0	<5.0	
10/13/2022	Thursday	4.5			<5.0	5.0		
10/14/2022	Friday	11.0			<10.0	30.5		
10/15/2022	Saturday	14.0			<10.0	<5.0		
10/16/2022	Sunday	17.0			<10.0	5.0		
10/17/2022	Monday	4.5			<10.0	<5.0		
10/18/2022	Tuesday	13.0			<10.0	<5.0		
10/19/2022	Wednesday	2.0	4.5		10.0	5.0	5.0	
10/20/2022	Thursday	21.0			<10.0	<5.0		
10/21/2022	Friday	4.5			10.0	<5.0		
10/22/2022	Saturday	7.8			5.0	<5.0		
10/23/2022	Sunday	4.5			<5.0	<5.0		
10/24/2022	Monday	17.0			10.0	<5.0		
10/25/2022	Tuesday	2.0			<10.0	<5.0		
10/26/2022	Wednesday	7.8	49.0		10.0	<5.0	<5.0	
10/27/2022	Thursday	22.0			10.0	<5.0		
10/28/2022	Friday	2.0			10.0	<5.0		
10/29/2022	Saturday	33.0			<10.0	<5.0		
10/30/2022	Sunday	9.2			<10.0	<5.0		
10/31/2022	Monday	7.8			<10.0	<5.0		
11/1/2022	Tuesday	17.0			<10.0	<5.0		
11/2/2022	Wednesday	23.0	7.8		<10.0	5.0	<5.0	
11/3/2022	Thursday	13.0			<5.0	<5.0		
11/4/2022	Friday	23.0			<5.0	10.0		
11/5/2022	Saturday	4.5			<5.0	<5.0		
11/6/2022	Sunday	4.5			<5.0	<5.0		
11/7/2022	Monday	2.0			<5.0	5.0		
11/8/2022	Tuesday	13.0			10.0	5.0		
11/9/2022	Wednesday	13.0	7.8		<10.0	<5.0	<5.0	
11/10/2022	Thursday	49.0			<5.0	<5.0		
11/11/2022	Friday	13.0			10.0	<5.0		
11/12/2022	Saturday	23.0			<10.0	<5.0		
11/13/2022	Sunday	2.0			<10.0	<5.0		
11/14/2022	Monday	4.0			<10.0	<5.0		
11/15/2022	Tuesday	11.0			<10.0	<5.0		
11/16/2022	Wednesday	33.0	79.0		10.0	31.5	20.5	
11/17/2022	Thursday	26.0			10.0	<5.0		
11/18/2022	Friday	4.0			<5.0	<5.0		
11/19/2022	Saturday	7.8			10.0	<5.0		
11/20/2022	Sunday	7.8			5.0	<5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Bucklin Point Effluent Bacteria Sample Data 2022

all results are in MPN/100 mL

		Fecal Coliform			Enterococci			
Date	**Day of the Week**	**Grab 1 (04:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**	**Grab 1 (04:00*)**	**Grab 2 (08:00*)**	**Grab 2 Duplicate (08:00*)**	**Non-Routine Grab 1**
11/21/2022	Monday	7.8			<10.0	5.0		
11/22/2022	Tuesday	6.8			<10.0	<5.0		
11/23/2022	Wednesday	7.8	7.8		<10.0	<5.0	<5.0	
11/24/2022	Thursday	2.0			<10.0	<5.0		
11/25/2022	Friday	7.8			<10.0	5.0		
11/26/2022	Saturday	<2.0			<10.0	<5.0		
11/27/2022	Sunday	2.0			<10.0	<5.0		
11/28/2022	Monday	4.5			31.0	<5.0		
11/29/2022	Tuesday	7.8			<5.0	<5.0		
11/30/2022	Wednesday	7.8	23.0		<10.0	10.0	10.0	
12/1/2022	Thursday	2.0			10.0	<5.0		
12/2/2022	Friday	13.0			<5.0	<5.0		
12/3/2022	Saturday	4.5			<5.0	<5.0		
12/4/2022	Sunday	4.5			<10.0	<5.0		
12/5/2022	Monday	4.5			<5.0	5.0		
12/6/2022	Tuesday	6.8			<10.0	15.0		
12/7/2022	Wednesday	13.0	6.8		231.0	5.0	5.0	
12/8/2022	Thursday	7.8			20.0	5.0		
12/9/2022	Friday	<2.0			20.0	<5.0		
12/10/2022	Saturday	4.5			<10.0	5.0		
12/11/2022	Sunday	2.0			5.0	5.0		
12/12/2022	Monday	4.5			<10.0	<5.0		
12/13/2022	Tuesday	4.0			<10.0	5.0		
12/14/2022	Wednesday	<2.0	2.0		<10.0	5.0	<5.0	
12/15/2022	Thursday	<2.0			<10.0	5.0		
12/16/2022	Friday	13.0			<10.0	5.0		
12/17/2022	Saturday	2.0			<10.0	<5.0		
12/18/2022	Sunday	2.0			<5.0	5.0		
12/19/2022	Monday	6.8			5.0	<5.0		
12/20/2022	Tuesday	2.0			73.0	<5.0		
12/21/2022	Wednesday	4.5	2.0		<10.0	10.0	10.0	
12/22/2022	Thursday	7.8			10.0	5.0		
12/23/2022	Friday	6.8			<10.0	5.0		
12/24/2022	Saturday	2.0			<10.0	<5.0		
12/25/2022	Sunday	4.5			<10.0	10.0		
12/26/2022	Monday	2.0			<10.0	10.0		
12/27/2022	Tuesday	4.5			<10.0	10.0		
12/28/2022	Wednesday	4.5	2.0		<10.0	<5.0	<5.0	
12/29/2022	Thursday	7.8			5.0	<5.0		
12/30/2022	Friday	7.8			10.0	5.0		
12/31/2022	Saturday	4.5			<10.0	<5.0		

*Sample times are approximate

*Additional grab samples, and non-reportable results, occured on April 21st, 2022

Table 4: Bucklin Point Effluent Bacteria Sample Data

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/4/2022	Tuesday	34.13	0.2200	10.96	27	28.39	<3	0.0135	24.10	0.6889	75.80	<4	<4
1/5/2022	Wednesday	42.43	0.2884	7.254		29.31	11.30		15.59	0.5441	96.71	4.68	<4
1/11/2022	Tuesday	33.82	<0.200	3.837		21.28	<3		20.55	0.5224	69.84	5.93	<4
1/12/2022	Wednesday	33.92	<0.200	4.339		39.12	<3		16.60	0.4120	78.48	5.36	<4
1/18/2022	Tuesday	53.37	0.1307	4.992		25.01	5.891		13.08	0.2452	62.30	5.11	<4
1/19/2022	Wednesday	54.62	0.1332	3.158		23.05	5.380		14.38	0.2303	60.46	6.06	<4
1/25/2022	Tuesday	33.44	0.1795	3.617		31.86	8.427		15.03	0.3765	87.59	17	<4
1/26/2022	Wednesday	33.31	0.1565	2.993		22.45	3.442		17.58	0.5867	70.96	7.95	<4
2/1/2022	Tuesday	31.76	0.1651	3.217		21.38	3.126		17.12	0.3262	79.70	4.56	<4
2/2/2022	Wednesday	36.79	0.2157	3.775		28.55	7.892		20.60	0.3863	110	6.87	<4
2/8/2022	Tuesday	65.49	0.1881	4	14	20.11	4.827	0.0132	12.62	0.4497	63.09	6.89	<4
2/9/2022	Wednesday	66.81	0.1634	2.621		15.72	3.948		14.06	0.3738	58.37	15.4	<4
2/15/2022	Tuesday	42.87	0.1842	3.024		17.76	3.554		10.30	0.3504	56.18	4.30	<4
2/16/2022	Wednesday	45.65	0.1933	2.655		14.58	4.866		9.513	0.2310	58.20	<4	<4
2/22/2022	Tuesday	53.71	0.1967	3.418		24.39	11.94		11.33	0.3120	76.32	6.85	<4
2/23/2022	Wednesday	48.78	0.1644	3.304		16.43	3.019		14.59	0.2532	54.94	<4	<4
3/1/2022	Tuesday	51.72	0.2110	3.228		20.17	10.50		14.19	0.3119	83.28	9.82	<4
3/2/2022	Wednesday	50.63	0.1861	2.602		15.41	3.671		11.67	0.1786	72.19	4	<4
3/8/2022	Tuesday	42.96	0.2375	2.991	15	28.08	8.032	0.00389	21.98	0.2805	64.68	9.95	<4
3/9/2022	Wednesday	49.48	0.1921	3.627		25.99	5.471		14.06	0.3699	66.90	15.3	<4
3/15/2022	Tuesday	42.11	0.1628	2.622		15.51	2.422		10.11	0.2285	54.93	<4	<4
3/16/2022	Wednesday	42.10	0.1814	2.893		17.21	3.641		11.51	0.2236	69.70	8.93	<4
3/22/2022	Tuesday	40.42	0.1711	6.550		22.29	2.995		14.73	0.1965	131.4	<4	<4
3/23/2022	Wednesday	45.06	0.2150	4.986		26.77	7.297		19.51	0.7292	82.06	4.95	<4
3/29/2022	Tuesday	39.85	0.1875	3.640		18.06	4.074		12.99	0.1704	57.33	5.59	<4
3/30/2022	Wednesday	39.56	0.1721	4.906		28.65	4.154		12.35	0.2319	82.67	10.1	<4
4/5/2022	Tuesday	38.55	0.2014	4.634	19	35	4.668	0.108	15.52	0.3851	74.44	4.90	<4
4/6/2022	Wednesday	55.90	0.1783	4.279		25.23	8.988		10.12	0.2992	87.94	4.01	<4
4/12/2022	Tuesday	40.20	0.1731	3.485		24.11	5.716		10.27	0.2279	66.48	5.63	<4
4/13/2022	Wednesday	36.03	0.2492	6.229		23.71	3.056		19.01	0.3000	75.83	5.05	<4
4/19/2022	Tuesday	72.25	0.1536	2.703		19.45	8.635		11.92	0.3271	54.84	<4	<4
4/20/2022	Wednesday	65.53	0.1423	2.497		18.21	3.384		11.09	0.1521	49.87	4.35	<4
4/26/2022	Tuesday	43.15	0.1745	3.288		18.50	3.518		9.808	0.2570	63.95	8.63	<4
4/27/2022	Wednesday	40.90	0.2186	3.061		18.02	2.379		10.69	0.3233	57.61	7.19	<4
5/3/2022	Tuesday	38.60	0.1664	2.418	26	30.82	2.897	0.0551	11.82	0.3159	69.58	<4	<4
5/4/2022	Wednesday	42.86	0.1669	2.980		19.64	5.646		9.688	0.2654	67.97	<4	<4
5/10/2022	Tuesday	32.81	0.1600	2.556		16.32	3.634		13.10	0.3158	75.36	<4	<4
5/11/2022	Wednesday	35.34	0.2006	3.588		22.12	3.412		13.22	0.3236	79.20	<4	<4
5/17/2022	Tuesday	34.91	0.1683	3.101		27.99	3.900		9.334	0.2593	70.85	4.89	<4
5/18/2022	Wednesday	35.18	0.1644	4.665		37.93	3.950		12.95	0.2275	78.45	4.97	<4
5/24/2022	Tuesday	32.61	0.2012	3.171		35.55	3.879		12.42	0.2904	78.84	10.3	<4
5/25/2022	Wednesday	32.17	0.2385	3.831		22.91	3.434		11.07	0.4021	76.86	7.35	<4

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

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
5/31/2022	Tuesday	30.83	0.2213	3.663		24.63	4.350		11.87	0.2900	82.24	5.47	<4
6/1/2022	Wednesday	31.19	0.2191	4.043		32.15	3.861		19.24	0.4764	87.22	4.44	<4
6/7/2022	Tuesday	34.93	0.2403	4.141	29	23.99	7.794	0.0199	18.50	0.3244	116.2	<4	<4
6/8/2022	Wednesday	59.95	0.2283	8.362		93.53	13.22		14.19	3.282	180.4	<4	<4
6/14/2022	Tuesday	48.69	0.1393	2.243		17.37	5.514		8.702	0.2355	58.36	4.74	<4
6/15/2022	Wednesday	32.28	0.1821	4.784		24.44	3.483		14.19	0.6977	81.88	4.84	<4
6/21/2022	Tuesday	30.82	0.1700	2.849		26.40	3.548		17.88	0.4210	94.29	<4	<4
6/22/2022	Wednesday	30.47	0.1792	4.067		31.81	3.767		19.23	0.3816	100.8	6.10	6.10
6/28/2022	Tuesday	55.85	0.1242	3.162		20.65	5.970		10.25	0.1907	59.79	10.9	<4
6/29/2022	Wednesday	40.99	0.1280	3.304		26.83	4.155		13.40	0.2622	70.57	4.17	<4
7/5/2022	Tuesday	30.60	0.1472	7.453		20.85	3.816		9.123	0.1430	97.19	<4	<4
7/6/2022	Wednesday	30.06	0.1927	3.761		23.42	3.967		15.27	0.1543	90.12	<4	<4
7/12/2022	Tuesday	36.57	0.2500	4.967	25	39	20.39	0.0202	14.33	1.168	141.8	4.98	<4
7/13/2022	Wednesday	33.03	0.1738	2.990		26.62	7.648		13.91	0.2912	100.2	4.25	<4
7/19/2022	Tuesday	34.15	0.1466	5.507		25.32	5.513		22.56	0.7726	88.85	<4	<4
7/20/2022	Wednesday	30.35	0.1748	2.904		41.42	3.690		17.74	0.2297	86.27	<4	<4
7/26/2022	Tuesday	29.34	0.2550	4.639		37.37	25.25		12.77	0.3923	127.3	7.43	<4
7/27/2022	Wednesday	28.69	0.1843	3.239		28.53	3.965		15.66	0.5815	95.54	4.57	<4
8/2/2022	Tuesday	28.37	0.1542	2.846	39	27.40	3.397	0.0221	13.20	0.3574	87.94	5.53	<4
8/3/2022	Wednesday	29.11	0.1596	2.430		36.95	3.589		24.95	0.2344	96.38	<4	<4
8/9/2022	Tuesday	32.26	0.2045	4.187		33.03	12.34		12.69	0.5206	147.6	<4	<4
8/10/2022	Wednesday	25.72	0.1591	2.999		20.22	4.555		10.96	0.1778	87.38	4.60	<4
8/16/2022	Tuesday	28.61	0.1715	4.017		26.38	3.808		18.62	0.2925	99.20	5.11	<4
8/17/2022	Wednesday	26.59	0.2663	3.258		25.07	5.192		18.29	0.2983	103.9	4.56	<4
8/23/2022	Tuesday	68.56	0.1854	8.958		26.74	26.34		14.46	0.3354	96.02	6.01	<4
8/24/2022	Wednesday	56.03	0.1167	2.679		19.55	8.737		10.15	0.2675	74.15	<4	<4
8/30/2022	Tuesday	31.19	0.1086	1.988		20.05	5.523		8.609	0.2719	66.68	<4	<4
8/31/2022	Wednesday	31.26	0.1732	3.868		37.17	7.020		13.06	0.3586	105.3	<4	<4
9/6/2022	Tuesday	113.57	0.1510	2.662		15.22	5.678		8.889	0.1387	44.16	<4	<4
9/7/2022	Wednesday	69.50	0.1779	2.195		16.24	4.952		13.12	0.1354	60.39	7.27	<4
9/13/2022	Tuesday	60.08	0.1450	3.607	15	18.91	6.749	0.0304	15.54	0.2662	66.73	6.10	<4
9/14/2022	Wednesday	41.31	0.1620	3.105		27.02	2.693		17.50	0.4156	70.26	4.34	<4
9/20/2022	Tuesday	36.06	0.1635	2.396		18.47	3.146		13.71	0.3500	68.68	<4	<4
9/21/2022	Wednesday	38.42	0.1930	2.623		21.30	3.263		11.19	0.3171	66.13	<4	<4
9/27/2022	Tuesday	35.88	0.1748	3.317		20.75	3.368		12.27	0.3121	67.52	7.43	<4
9/28/2022	Wednesday	31.07	0.1659	2.045		22.68	3.133		10.77	0.1894	56.39	<4	<4
10/4/2022	Tuesday	50.84	0.2008	2.768	17	27.51	12.95	0.0408	8.953	0.2800	76.84	<4	<4
10/5/2022	Wednesday	64.48	0.1238	2.252		17.32	19.51		7.456	0.1505	57.50	<4	<4
10/11/2022	Tuesday	30.25	0.1678	2.122		19.83	2.405		12.02	0.1314	58.87	<4	<4
10/12/2022	Wednesday	41.90	0.1891	4.253		28.41	13.25		15.53	0.2907	100.9	4.16	<4
10/18/2022	Tuesday	36.75	0.1545	5.365		16.84	6.796		8.532	0.2126	55.50	<4	<4
10/19/2022	Wednesday	45.76	0.2218	7.290		28.93	14.75		12.91	0.2870	76.01	<4	<4

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

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
10/25/2022	Tuesday	64.91	0.1148	2.950		20.58	13.89		10.35	0.2521	56.90	4.97	<4
10/26/2022	Wednesday	56.34	0.1289	2.971		20.86	7.625		10.53	0.2473	55.29	<4	<4
11/1/2022	Tuesday	36.44	0.2213	4.781		37.98	27.15		12.01	1.679	103.5	4.79	<4
11/2/2022	Wednesday	37.16	0.3809	8.935		57.27	59.98		15.22	1.857	164.3	4.98	<4
11/8/2022	Tuesday	34.30	0.1716	4.357		26.21	6.047	0.0194	12.67	0.2818	76.23	<4	<4
11/9/2022	Wednesday	32.95	0.1595	7.254		26.03	8.631		18.51	1.227	74.26	<4	<4
11/15/2022	Tuesday	45.54	0.1927	3.708	17	41.72	15.91		14.56	0.2533	94.45	6.04	<4
11/16/2022	Wednesday	52.95	0.1294	2.409		17.21	8.471		13.05	0.1208	55.34	4.93	<4
11/22/2022	Tuesday	35.29	0.1472	3.628		32.63	5.419		14.72	0.2765	69.48	4.22	<4
11/23/2022	Wednesday	34.89	0.1356	2.947		27.41	3.002		12	0.2497	65.97	4.04	<4
11/29/2022	Tuesday	34.71	0.1439	5.088		22.17	5.247		20.15	2.642	82.33	6.93	<4
11/30/2022	Wednesday	51.43	0.1579	4.224		29.23	12.75		14.76	0.4387	92.50	4.97	<4
12/6/2022	Tuesday	45.54	0.1800	5.500	26	24.31	9.129	0.0191	17.51	0.3588	87.70	6.21	<4
12/7/2022	Wednesday	64.77	0.1193	5.444		17.37	10.61		18.02	0.2435	65.73	<4	<4
12/13/2022	Tuesday	39.96	0.1532	7.056		20.88	2.143		8.888	0.3306	70.62	6.47	<4
12/14/2022	Wednesday	38.67	0.1594	6.519		17.80	2.592		10.26	0.3636	75.28	6.20	<4
12/20/2022	Tuesday	42.05	0.4502	4.428		25.81	3.630		12.57	0.2077	64.19	<4	<4
12/21/2022	Wednesday	41.62	0.1713	5.613		19.62	2.357		13.27	0.2016	66.21	<4	<4
12/27/2022	Tuesday	56.04	0.1479	3.454		16.41	3.440		7.639	0.1178	54.45	8.30	<4
12/28/2022	Wednesday	45.17	0.1448	3.902		13.21	2.754		10.72	0.1406	63.62	11.9	<4

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

Field's Point Influent Metals, Al-Mo, 2022
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo
1/4/2022	Tuesday	34.13	137.1	1189	<10	<5	11.36
1/5/2022	Wednesday	42.43	310.1		<10	<5	9.995
1/11/2022	Tuesday	33.82	175.3		<10	<5	5.326
1/12/2022	Wednesday	33.92	165.2		<10	<5	13.90
1/18/2022	Tuesday	53.37	212.3		1.275	2.147	9.468
1/19/2022	Wednesday	54.62	188		<1	2.090	4.560
1/25/2022	Tuesday	33.44	215.3		1.730	2.487	6.378
1/26/2022	Wednesday	33.31	166.6		1.556	2.444	6.671
2/1/2022	Tuesday	31.76	170.8		1.613	2.347	6.664
2/2/2022	Wednesday	36.79	266		<3	2.263	5.173
2/8/2022	Tuesday	65.49	228	1292	<1	2.030	3.444
2/9/2022	Wednesday	66.81	179.5		3.728	2.190	5.648
2/15/2022	Tuesday	42.87	155.1		1.423	2.486	4.761
2/16/2022	Wednesday	45.65	178.2		1.178	2.688	3.777
2/22/2022	Tuesday	53.71	357.2		1.052	2.899	7.078
2/23/2022	Wednesday	48.78	135.9		1.078	2.990	5.298
3/1/2022	Tuesday	51.72	364.3		1.382	2.659	6.257
3/2/2022	Wednesday	50.63	178.7		1.081	2.875	5.669
3/8/2022	Tuesday	42.96	157.2	1270	1.447	2.813	5.473
3/9/2022	Wednesday	49.48	249.5		1.190	2.910	3.447
3/15/2022	Tuesday	42.11	122.8		1.304	2.551	4.553
3/16/2022	Wednesday	42.10	180		1.498	2.960	7.192
3/22/2022	Tuesday	40.42	147		1.966	3.274	5.922
3/23/2022	Wednesday	45.06	252.5		2.112	3.417	4.820
3/29/2022	Tuesday	39.85	189		2.358	3.046	6.437
3/30/2022	Wednesday	39.56	184.8		1.877	3.126	3.945
4/5/2022	Tuesday	38.55	254.3	2322	1.767	2.830	5.137
4/6/2022	Wednesday	55.90	364.7		2.161	2.028	5.287
4/12/2022	Tuesday	40.20	221.6		1.283	2.926	3.686
4/13/2022	Wednesday	36.03	166.4		1.789	3.072	5.146
4/19/2022	Tuesday	72.25	306.2		1.937	1.778	7.810
4/20/2022	Wednesday	65.53	153.7		<1	2.153	6.687
4/26/2022	Tuesday	43.15	155.8		1.641	3.142	9.565
4/27/2022	Wednesday	40.90	153.4		1.719	3.227	7.416
5/3/2022	Tuesday	38.60	164.8	1219	1.368	2.368	6.639
5/4/2022	Wednesday	42.86	236.3		1.593	2.482	5.449
5/10/2022	Tuesday	32.81	157.2		1.330	1.953	5.101
5/11/2022	Wednesday	35.34	195.9		2.344	2.746	7.763
5/17/2022	Tuesday	34.91	193.4		1.683	2.217	9.504
5/18/2022	Wednesday	35.18	180.1		1.579	2.821	8.918
5/24/2022	Tuesday	32.61	175		2.064	1.957	10.52
5/25/2022	Wednesday	32.17	179.7		2.391	3.953	9.139
5/31/2022	Tuesday	30.83	238.7		1.929	2.129	9.079
6/1/2022	Wednesday	31.19	187.2		1.668	3.178	8.583
6/7/2022	Tuesday	34.93	254.6	1494	1.768	2.586	23.36
6/8/2022	Wednesday	59.95	629.8		<1	1.059	6.191
6/14/2022	Tuesday	48.69	172		1.264	1.967	16.02
6/15/2022	Wednesday	32.28	172.4		1.971	2.507	18.33
6/21/2022	Tuesday	30.82	177.1		1.409	2.536	16.82
6/22/2022	Wednesday	30.47	181.8		1.178	2.155	10.27
6/28/2022	Tuesday	55.85	198		1.092	2.035	7.289
6/29/2022	Wednesday	40.99	149.4		1.276	2.218	6.596
7/5/2022	Tuesday	30.60	163.1		<1	2.012	11.99
7/6/2022	Wednesday	30.06	146.7		<1	2.109	7.423
7/12/2022	Tuesday	36.57	595.8	2255	1.303	2.904	10.39
7/13/2022	Wednesday	33.03	270.2		1.360	2.656	10.58
7/19/2022	Tuesday	34.15	214.7		1.213	2.193	16.69

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

Field's Point Influent Metals, Al-Mo, 2022
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo
7/20/2022	Wednesday	30.35	205.3		1.506	2.414	11.26
7/26/2022	Tuesday	29.34	647.7		1.785	2.741	10.42
7/27/2022	Wednesday	28.69	217.5		1.942	2.042	11.20
8/2/2022	Tuesday	28.37	181.9	1215	1.614	2.054	13.20
8/3/2022	Wednesday	29.11	190.9		1.233	1.857	12.08
8/9/2022	Tuesday	32.26	362.7		<1	2.165	11.74
8/10/2022	Wednesday	25.72	248.5		4.131	2.179	10.86
8/16/2022	Tuesday	28.61	204.5		1.049	2.286	8.534
8/17/2022	Wednesday	26.59	255.8		1.554	2.610	15.58
8/23/2022	Tuesday	68.56	604.3		<1	2.302	5.229
8/24/2022	Wednesday	56.03	225.2		<1	1.665	4.493
8/30/2022	Tuesday	31.19	181.9		1.003	1.451	7.107
8/31/2022	Wednesday	31.26	269.4		1.861	2.370	12.43
9/6/2022	Tuesday	113.57	163.7		<1	1.940	2.761
9/7/2022	Wednesday	69.50	144.8		1.115	2.242	2.779
9/13/2022	Tuesday	60.08	221.1	1268	<1	2.440	3.987
9/14/2022	Wednesday	41.31	239.7		1.239	3.221	4.496
9/20/2022	Tuesday	36.06	168.5		1.275	2.406	6.552
9/21/2022	Wednesday	38.42	193.3		1.666	2.433	6.036
9/27/2022	Tuesday	35.88	154.8		1.168	2.346	9.298
9/28/2022	Wednesday	31.07	118.1		<1	1.885	7.759
10/4/2022	Tuesday	50.84	294.8	1327	1.321	1.978	15.26
10/5/2022	Wednesday	64.48	250.6		<1	1.992	4.028
10/11/2022	Tuesday	30.25	114.4		<1	2.272	5.725
10/12/2022	Wednesday	41.90	385.1		1.224	3.297	8.477
10/18/2022	Tuesday	36.75	191.4		1.209	2.148	6.614
10/19/2022	Wednesday	45.76	372.2		1.306	2.846	6.019
10/25/2022	Tuesday	64.91	334.8		<1	1.628	6.018
10/26/2022	Wednesday	56.34	231.4		1.014	2.062	7.020
11/1/2022	Tuesday	36.44	703		2.022	2.834	7.911
11/2/2022	Wednesday	37.16	1405		2.110	3.310	12.54
11/8/2022	Tuesday	34.30	210.6	1355	1.726	3.469	4.428
11/9/2022	Wednesday	32.95	298.2		1.504	3.050	6.231
11/15/2022	Tuesday	45.54	386.9		1.043	2.291	4.261
11/16/2022	Wednesday	52.95	223		<1	1.575	3.927
11/22/2022	Tuesday	35.29	230.8		1.270	2.568	5.359
11/23/2022	Wednesday	34.89	165.5		1.042	2.906	3.526
11/29/2022	Tuesday	34.71	209.8		1.438	2.191	5.092
11/30/2022	Wednesday	51.43	383.5		1.405	2.627	8.558
12/6/2022	Tuesday	45.54	251.2	1348	1.727	2.913	7.247
12/7/2022	Wednesday	64.77	295.3		<1	2.215	6.098
12/13/2022	Tuesday	39.96	136.2		1.494	2.446	13.80
12/14/2022	Wednesday	38.67	172.4		1.718	3.558	13.37
12/20/2022	Tuesday	42.05	201.3		1.197	2.158	6.803
12/21/2022	Wednesday	41.62	195.1		1.317	2.321	6.692
12/27/2022	Tuesday	56.04	150		<1	2.708	7.336
12/28/2022	Wednesday	45.17	177.4		<1	3.340	3.578

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/4/2022	Tuesday	34.13	<0.200	4.210	<10	3.846	<3	0.00184	13.47	<0.200	<50	4.25	<4
1/5/2022	Wednesday	42.43	0.02239	3.476		3.453	0.4023		10.77	0.03656	20.80	5.04	<4
1/11/2022	Tuesday	33.82	0.02011	1.182	<10	2.054	<0.300		10.28	0.02375	19.87	4.90	<4
1/12/2022	Wednesday	33.92	<0.020	1.231		2.421	<0.300		11.14	0.02000	21.42	5.24	<4
1/18/2022	Tuesday	53.37	0.02436	1.685		3.769	0.5624		8.533	0.03382	23.43	6.68	<4
1/19/2022	Wednesday	54.62	0.02857	1.407		4.672	0.6846		10.07	0.03801	28.59	5.73	<4
1/25/2022	Tuesday	33.44	0.02082	1.235		2.659	0.3665		11.47	0.03650	23.65	<4	<4
1/26/2022	Wednesday	33.31	<0.020	1.159		2.420	<0.300		11.96	0.03689	23.66	<4	<4
2/1/2022	Tuesday	31.76	<0.020	1.126		2.294	<0.300		11.36	0.02176	21.22	6.35	<4
2/2/2022	Wednesday	36.79	<0.020	1.054		3.491	0.4360		11.11	0.03239	22.65	7.06	<4
2/8/2022	Tuesday	63.62	0.02845	1.154	<10	2.740	0.4975	0.00182	7.749	0.02812	26.77	<4	<4
2/9/2022	Wednesday	66.81	0.03968	1.259		3.904	0.9849		9.156	0.05220	29.27	5.36	<4
2/15/2022	Tuesday	42.87	0.02298	1.125		2.808	0.3472		7.624	0.02008	23.27	6.95	<4
2/16/2022	Wednesday	45.65	0.04763	1.411		6.698	1.118		7.261	0.05800	24.18	6.03	<4
2/22/2022	Tuesday	53.71	0.03892	1.370		4.386	0.9256		8.404	0.04889	24.61	13.7	7.07
2/23/2022	Wednesday	48.78	0.02524	1.318		3.211	0.5257		9.695	0.03254	22.23	<4	<4
3/1/2022	Tuesday	51.72	0.03193	0.9903		2.851	0.3585		9.758	0.02728	24.33	<4	<4
3/2/2022	Wednesday	50.63	0.03256	0.9618		2.640	0.4180		8.600	0.04920	23	<4	<4
3/8/2022	Tuesday	42.96	0.02816	1.031	<10	3.031	0.6654	0.00306	13.27	0.03456	20.90	6.85	<4
3/9/2022	Wednesday	49.48	0.02027	0.9916		2.416	0.3412		11.01	0.02413	18.66	8.15	<4
3/15/2022	Tuesday	42.11	<0.020	1.077		2.050	<0.300		9.103	0.02214	17.83	<4	<4
3/16/2022	Wednesday	42.10	<0.020	1.045		2.440	<0.300		8.842	0.02046	18.76	<4	<4
3/22/2022	Tuesday	40.42	<0.020	1.237		1.826	<0.300		9.358	<0.020	19.61	4.22	<4
3/23/2022	Wednesday	45.06	<0.020	1.161		1.839	<0.300		9.407	<0.020	17.84	5.15	<4
3/29/2022	Tuesday	39.85	<0.020	0.9795		1.786	<0.300		8.948	<0.020	17.47	4.13	<4
3/30/2022	Wednesday	39.56	0.02140	1.208		1.863	<0.300		9.676	<0.020	21.58	<4	<4
4/5/2022	Tuesday	38.55	<0.020	1.298	<10	2.073	0.4946	0.00151	8.474	<0.020	20.83	5.88	<4
4/6/2022	Wednesday	55.90	<0.020	0.9116		1.862	<0.300		6.900	<0.020	20.41	<4	<4
4/12/2022	Tuesday	40.20	0.02138	1.196	<10	2.658	0.3032		8.355	<0.020	24.59	<4	<4
4/13/2022	Wednesday	36.03	0.02435	1.620		4.012	0.3343		11.87	<0.020	28.74	4.15	<4
4/19/2022	Tuesday	72.25	<0.020	0.6839		2.347	0.3412		6.262	<0.020	19.97	<4	<4
4/20/2022	Wednesday	65.53	<0.020	0.8281		2.050	<0.300		6.804	<0.020	18.81	4.67	<4
4/25/2022	Monday	40.84			<10								
4/26/2022	Tuesday	43.15	<0.020	1.586		1.936	<0.300		7.966	<0.020	24.98	7.75	<4
4/27/2022	Wednesday	40.90	<0.020	1.475		2.089	<0.300		8.028	<0.020	20.83	7.56	<4
5/3/2022	Tuesday	38.60	<0.020	0.8718	<10	1.923	<0.300	0.00146	7.382	<0.020	23.88	6.69	<4
5/4/2022	Wednesday	42.86	<0.020	0.9424		1.804	<0.300		7.152	<0.020	22.23	5.38	<4

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
5/10/2022	Tuesday	32.81	<0.020	0.9085		3.720	<0.300		8.809	<0.020	21.77	4.47	<4
5/11/2022	Wednesday	35.34	<0.020	1.034		1.982	<0.300		9.446	<0.020	22.78	<4	<4
5/17/2022	Tuesday	34.91	<0.020	0.9531		1.928	<0.300		7.688	<0.020	22.90	8.01	<4
5/18/2022	Wednesday	35.18	<0.020	1.030		2.409	<0.300		7.949	<0.020	20.82	4.34	<4
5/24/2022	Tuesday	32.61	<0.020	0.9479		2.184	<0.300		7.749	<0.020	20.12	<4	<4
5/25/2022	Wednesday	32.17	<0.020	1.413		2.280	<0.300		8.478	<0.020	19.65	<4	<4
5/31/2022	Tuesday	30.83	<0.020	0.8633		2.128	<0.300		8.030	<0.020	21.47	14.6	<4
6/1/2022	Wednesday	31.19	<0.020	1.151		2.309	<0.300		10.45	<0.020	22.27	6.19	<4
6/7/2022	Tuesday	34.93	<0.020	1.234	<10	3.923	0.4087	0.00147	10.11	0.02239	17.93	7.55	<4
6/8/2022	Wednesday	59.95	<0.020	0.9955		2.595	0.3620		7.966	<0.020	17.25	<4	<4
6/14/2022	Tuesday	48.69	<0.020	0.7576		1.699	<0.300		6.653	<0.020	18.65	<4	<4
6/15/2022	Wednesday	32.28	<0.020	0.9385		2.073	<0.300		8.365	<0.020	23.20	10.1	<4
6/21/2022	Tuesday	30.82	<0.020	0.9843		1.899	<0.300		10.36	<0.020	20.95	<4	<4
6/22/2022	Wednesday	30.47	<0.020	0.8588		1.723	<0.300		10.59	<0.020	19.21	<4	<4
6/28/2022	Tuesday	55.85	<0.020	0.9324		2.067	<0.300		7.169	<0.020	18.97	8.43	<4
6/29/2022	Wednesday	40.99	<0.020	0.9672		1.879	<0.300		8.079	<0.020	21.69	7.72	<4
7/5/2022	Tuesday	30.60	<0.020	2.536		2.484	<0.300		5.976	<0.020	20.75	4.25	<4
7/6/2022	Wednesday	30.06	<0.020	2.781		3.074	<0.300		8.143	<0.020	22.22	4.77	<4
7/12/2022	Tuesday	36.57	<0.020	1.179	<10	2.079	0.3240	0.00158	6.899	<0.020	15.82	8.24	<4
7/13/2022	Wednesday	33.03	<0.020	0.8548		1.326	<0.300		6.661	<0.020	17.86	6.73	<4
7/19/2022	Tuesday	34.15	<0.020	0.9168		1.870	<0.300		13.03	<0.020	20.68	4.01	<4
7/20/2022	Wednesday	30.35	<0.020	0.9118		2.150	<0.300		12.67	<0.020	20.66	4.65	<4
7/26/2022	Tuesday	29.34	<0.020	0.8082		1.459	<0.300		8.049	<0.020	19.96	4.10	<4
7/27/2022	Wednesday	28.69	<0.020	0.9258		1.755	<0.300		10.20	<0.020	22.20	5.90	<4
8/2/2022	Tuesday	28.37	<0.020	0.8307	<10	2.302	<0.300	<0.001	9.242	<0.020	20.62	<4	<4
8/3/2022	Wednesday	29.11	<0.020	0.7701		2.581	<0.300		11.29	<0.020	22.04	4.78	<4
8/9/2022	Tuesday	32.26	<0.020	0.8470		2.306	<0.300		8.009	<0.020	20.75	5.75	<4
8/10/2022	Wednesday	25.72	<0.020	0.8038		1.752	<0.300		8.012	<0.020	21.08	4.59	<4
8/16/2022	Tuesday	28.61	<0.020	1.480	<10	1.551	<0.300		13.03	<0.020	20.50	<4	<4
8/17/2022	Wednesday	26.59	<0.020	0.9606		1.460	<0.300		11.19	<0.020	19.28	7.14	<4
8/23/2022	Tuesday	61.04	<0.020	0.8056		2.569	0.4926		7.582	<0.020	17.46	8.04	<4
8/24/2022	Wednesday	56.03	<0.020	0.6818		1.892	0.3290		8.011	<0.020	19.38	5.63	<4
8/30/2022	Tuesday	31.19	<0.020	0.8060		2.982	0.3468		7.933	<0.020	20.27	<4	<4
8/31/2022	Wednesday	31.26	<0.020	0.9454		2.764	0.3305		8.197	<0.020	20.94	<4	<4
9/6/2022	Tuesday	74.53	<0.020	0.7318		2.610	0.4177		5.394	<0.020	18.52	6.42	6.42
9/7/2022	Wednesday	69.50	<0.020	0.7260		2.007	0.3052		6.850	<0.020	16.14	<4	<4
9/13/2022	Tuesday	60.08	<0.020	1.088	<10	2.650	<0.300	0.00116	10.25	<0.020	18.15	6.18	<4

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2022
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
9/14/2022	Wednesday	41.31	<0.020	1.329		2.011	<0.300		11.05	<0.020	19.45	<4	<4
9/20/2022	Tuesday	36.06	<0.020	0.9106		2.049	<0.300		8.322	<0.020	20.58	8.88	<4
9/21/2022	Wednesday	38.42	<0.020	0.8900		2.800	0.4238		7.429	0.02210	20.37	<4	<4
9/27/2022	Tuesday	35.88	<0.020	0.7890		2.447	<0.300		7.262	<0.020	17.05	<4	<4
9/28/2022	Wednesday	31.07	0.03263	0.9548		4.891	0.3826		5.916	0.05508	39.09	5.15	<4
10/4/2022	Tuesday	50.84	<0.020	0.8031	<10	1.752	<0.300	0.00136	5.006	<0.020	14.66	<4	<4
10/5/2022	Wednesday	64.48	<0.020	0.8356		1.679	0.3053		5.103	<0.020	16.99	<4	<4
10/11/2022	Tuesday	30.25	<0.020	0.8323		1.669	<0.300		6.529	<0.020	17.78	8.14	<4
10/12/2022	Wednesday	41.90	<0.020	1.080		1.444	<0.300		7.263	<0.020	13.43	5.82	<4
10/18/2022	Tuesday	36.75	<0.020	1.842		1.294	<0.300		6.084	<0.020	16.31	<4	<4
10/19/2022	Wednesday	45.76	<0.020	3.545		1.580	0.3212		7.474	<0.020	16.47	5.80	<4
10/25/2022	Tuesday	64.91	<0.020	0.7654		2.622	0.4753		6.002	<0.020	19.31	<4	<4
10/26/2022	Wednesday	56.34	<0.020	0.8215		1.814	0.3300		6.804	<0.020	17.51	4.04	<4
11/1/2022	Tuesday	36.44	<0.020	1.102		1.447	0.3146		7.919	<0.020	14.93	10	<4
11/2/2022	Wednesday	37.16	<0.020	1.323	<10	1.504	0.3810		7.482	<0.020	16.31	<4	<4
11/8/2022	Tuesday	34.30	<0.020	1.416		2.265	0.4067	0.00106	9.159	0.02041	23.72	<4	<4
11/9/2022	Wednesday	32.95	<0.020	1.905		1.875	<0.300		8.866	<0.020	21.03	<4	<4
11/15/2022	Tuesday	45.54	<0.020	0.9703	<10	1.916	0.4061		7.035	<0.020	19.61	8.12	<4
11/16/2022	Wednesday	52.95	0.02041	0.6983		1.965	0.4962		7.546	<0.020	21.17	6.83	<4
11/22/2022	Tuesday	35.29	<0.020	1.008		4.682	0.3055		7.554	<0.020	21.29	<4	<4
11/23/2022	Wednesday	34.89	<0.020	1.032		2.308	0.3025		7.813	<0.020	21.64	4.88	<4
11/29/2022	Tuesday	34.71	<0.020	1.236		2.254	<0.300		8.719	0.09541	23.85	<4	<4
11/30/2022	Wednesday	51.43	<0.020	1.192		2.888	0.4225		8.104	0.06038	24	<4	<4
12/6/2022	Tuesday	45.54	<0.020	1.798	<10	3.114	0.5448	0.00199	9.366	0.03853	23.67	<4	<4
12/7/2022	Wednesday	64.77	<0.020	1.296		2.179	0.3950		9.012	<0.020	21.95	<4	<4
12/13/2022	Tuesday	39.96	0.02027	2.833		1.900	<0.300		7.528	0.03160	25.08	8.24	<4
12/14/2022	Wednesday	38.67	0.02030	3.690		1.985	<0.300		7.865	0.02402	25.34	5.43	<4
12/20/2022	Tuesday	42.05	<0.020	1.391		3.373	0.3675		7.887	<0.020	22.75	<4	<4
12/21/2022	Wednesday	41.62	0.02861	0.5574		4.358	0.3400		9.787	0.06020	28.12	4.68	<4
12/27/2022	Tuesday	56.04	<0.020	1.261		1.951	0.3093		5.776	<0.020	21.09	5.59	<4
12/28/2022	Wednesday	45.17	<0.020	1.517		2.021	<0.300		6.692	<0.020	23.62	4.90	<4

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

Field's Point Effluent Metals, Al - Mo, 2022
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Al	Fe	Se	As	Mo
1/4/2022	Tuesday	34.13	<50	150.4	<10	<5	10.35
1/5/2022	Wednesday	42.43	<50		1.085	2.051	11.65
1/11/2022	Tuesday	33.82	<50		<1	2.041	6.187
1/12/2022	Wednesday	33.92	6.848		<1	2.164	12.44
1/18/2022	Tuesday	53.37	21.41		<1	1.626	9.006
1/19/2022	Wednesday	54.62	24.94		<1	1.652	6.345
1/25/2022	Tuesday	33.44	11.72		<1	2.101	7.334
1/26/2022	Wednesday	33.31	8.390		<1	2.113	6.448
2/1/2022	Tuesday	31.76	8.668		<1	2.015	8.437
2/2/2022	Wednesday	36.79	13.75		<1	1.818	5.149
2/8/2022	Tuesday	63.62	16.46	151.9	1.118	1.288	3.676
2/9/2022	Wednesday	66.81	35.57		1.092	1.542	3.743
2/15/2022	Tuesday	42.87	9.677		<1	1.965	4.708
2/16/2022	Wednesday	45.65	43.54		<1	1.760	3.761
2/22/2022	Tuesday	53.71	36.24		<1	2.361	5.359
2/23/2022	Wednesday	48.78	18.84		<1	2.653	5.467
3/1/2022	Tuesday	51.72	11.21		<1	2.300	6.301
3/2/2022	Wednesday	50.63	<15		<1	2.099	5.663
3/8/2022	Tuesday	42.96	<25	201.8	<1	2.634	4.710
3/9/2022	Wednesday	49.48	9.785		<1	2.306	3.829
3/15/2022	Tuesday	42.11	7.505		1.096	2.779	4.993
3/16/2022	Wednesday	42.10	6.247		1.037	2.620	6.289
3/22/2022	Tuesday	40.42	6.822		1.463	2.961	5.402
3/23/2022	Wednesday	45.06	8.080		1.230	2.733	4.618
3/29/2022	Tuesday	39.85	7.065		1.293	2.233	4.294
3/30/2022	Wednesday	39.56	6.960		1.297	2.326	3.607
4/5/2022	Tuesday	38.55	9.249	120.9	1.990	2.482	5.131
4/6/2022	Wednesday	55.90	7.686		1.788	1.640	5.533
4/12/2022	Tuesday	40.20	9.687		<1	2.369	3.457
4/13/2022	Wednesday	36.03	8.620		1.183	2.697	4.521
4/19/2022	Tuesday	72.25	10.45		<1	1.472	6.561
4/20/2022	Wednesday	65.53	8.356		<1	1.463	6.214
4/26/2022	Tuesday	43.15	7.148		<1	2.572	8.340
4/27/2022	Wednesday	40.90	6.772		<1	2.703	7.275
5/3/2022	Tuesday	38.60	6.201	92.74	<1	1.885	5.898
5/4/2022	Wednesday	42.86	5.409		<1	1.979	5.446
5/10/2022	Tuesday	32.81	5.492		<1	2.178	5.093
5/11/2022	Wednesday	35.34	5.869		1.037	2.209	6.682
5/17/2022	Tuesday	34.91	6.546		<1	1.745	7.477
5/18/2022	Wednesday	35.18	9.410		<1	1.942	9.348
5/24/2022	Tuesday	32.61	6.041		<1	1.818	8.169
5/25/2022	Wednesday	32.17	6.850		<1	2.403	9.101
5/31/2022	Tuesday	30.83	6.035		1.008	1.731	8.246
6/1/2022	Wednesday	31.19	8.020		<1	2.074	8.437
6/7/2022	Tuesday	34.93	12.83	317.6	<1	2.098	17.18
6/8/2022	Wednesday	59.95	10.59		<1	1.561	13.72
6/14/2022	Tuesday	48.69	5.479		<1	1.679	13.17
6/15/2022	Wednesday	32.28	6.460		<1	1.833	15.54
6/21/2022	Tuesday	30.82	6.031		<1	1.799	8.784
6/22/2022	Wednesday	30.47	5.386		<1	1.779	8.916
6/28/2022	Tuesday	55.85	7.878		<1	1.662	7.311
6/29/2022	Wednesday	40.99	5.791		<1	1.618	6.859
7/5/2022	Tuesday	30.60	5.408		<1	1.716	18.42
7/6/2022	Wednesday	30.06	5.600		<1	1.563	10.88
7/12/2022	Tuesday	36.57	8.327	329.9	<1	1.710	9.388
7/13/2022	Wednesday	33.03	6.247		<1	1.260	9.516
7/19/2022	Tuesday	34.15	9.926		<1	1.683	15.39
7/20/2022	Wednesday	30.35	6.122		<1	1.541	12.96

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

Field's Point Effluent Metals, Al - Mo, 2022
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Al	Fe	Se	As	Mo
7/26/2022	Tuesday	29.34	6.285		<1	1.114	7.295
7/27/2022	Wednesday	28.69	6.435		<1	1.445	8.787
8/2/2022	Tuesday	28.37	5.953	137.3	<1	1.625	9.655
8/3/2022	Wednesday	29.11	6.435		<1	1.674	10.75
8/9/2022	Tuesday	32.26	7.710		<1	1.541	9.882
8/10/2022	Wednesday	25.72	6.914		<1	1.581	10.53
8/16/2022	Tuesday	28.61	8.123		<1	1.542	7.943
8/17/2022	Wednesday	26.59	6.620		<1	1.768	12.14
8/23/2022	Tuesday	61.04	13.65		<1	1.314	4.048
8/24/2022	Wednesday	56.03	7.096		<1	1.464	4.288
8/30/2022	Tuesday	31.19	7.623		<1	1.585	8.946
8/31/2022	Wednesday	31.26	7.064		<1	1.472	10.96
9/6/2022	Tuesday	74.53	13.76		<1	1.505	2.816
9/7/2022	Wednesday	69.50	9.373		<1	1.824	4.255
9/13/2022	Tuesday	60.08	7.252	115.8	<1	2.303	3.883
9/14/2022	Wednesday	41.31	7.586		<1	2.602	4.139
9/20/2022	Tuesday	36.06	5.779		<1	2.023	6.368
9/21/2022	Wednesday	38.42	12.94		<1	1.981	5.541
9/27/2022	Tuesday	35.88	5.947		<1	1.705	7.328
9/28/2022	Wednesday	31.07	19.15		<1	0.5077	7.611
10/4/2022	Tuesday	50.84	8.413	126.6	<1	1.597	7.762
10/5/2022	Wednesday	64.48	7.360		<1	1.434	4.050
10/11/2022	Tuesday	30.25	5.470		<1	1.580	5.649
10/12/2022	Wednesday	41.90	5.830		<1	1.933	6.437
10/18/2022	Tuesday	36.75	7.001		<1	1.507	6.032
10/19/2022	Wednesday	45.76	8.480		<1	1.960	5.687
10/25/2022	Tuesday	64.91	8.780		<1	1.427	5.233
10/26/2022	Wednesday	56.34	8.882		<1	1.460	5.768
11/1/2022	Tuesday	36.44	5.899		1.159	2.053	6.952
11/2/2022	Wednesday	37.16	7.200		1.359	2.258	10.80
11/8/2022	Tuesday	34.30	8.011	123.2	<1	2.749	5.151
11/9/2022	Wednesday	32.95	6.307		<1	2.532	5.552
11/15/2022	Tuesday	45.54	9.039		<1	1.935	4.329
11/16/2022	Wednesday	52.95	9.155		<1	1.274	3.940
11/22/2022	Tuesday	35.29	6.399		<1	1.962	4.303
11/23/2022	Wednesday	34.89	6.245		<1	2.026	3.459
11/29/2022	Tuesday	34.71	6.934		<1	2.295	5.185
11/30/2022	Wednesday	51.43	9.814		1.182	1.960	7.214
12/6/2022	Tuesday	45.54	15.49	187.9	<1	2.418	6.853
12/7/2022	Wednesday	64.77	9.830		<1	1.690	6.126
12/13/2022	Tuesday	39.96	7.740		<1	2.089	14.12
12/14/2022	Wednesday	38.67	11.44		<1	2.494	11.49
12/20/2022	Tuesday	42.05	8.310		<1	2.540	7.644
12/21/2022	Wednesday	41.62	26.61		<1	<0.500	2.832
12/27/2022	Tuesday	56.04	9.413		<1	2.024	6.863
12/28/2022	Wednesday	45.17	7.869		<1	2.407	4.072

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/4/2022	Tuesday	14.59	<0.200	<3	40	47.66	<3	0.0192	18.11	2.037	82.10	<4	<4
1/5/2022	Wednesday	22.63	<0.200	<3		43.84	3.133		12.28	1.309	100.1	<4	<4
1/11/2022	Tuesday	14.99	<0.200	4.523		44.34	<3		13.05	3.208	88.74	4.17	<4
1/12/2022	Wednesday	15.70	<0.200	<3		36.45	<3		12.69	2.534	71.76	4.71	<4
1/18/2022	Tuesday	16.44	0.1204	1.983		37.47	2.815		11.06	2.356	78.37	4.47	<4
1/19/2022	Wednesday	16.20	0.1249	1.778		45.01	2.435		12.14	1.915	78.71	4.82	<4
1/25/2022	Tuesday	15.40	0.1199	2.760		47.38	2.185		10.64	3.501	72.20	6.19	<4
1/26/2022	Wednesday	14.25	0.1216	3.159		43.71	2.668		10.42	3.655	78.89	<4	<4
2/1/2022	Tuesday	15.01	0.1222	3.177		41.89	2.676		11.67	3.608	78.58	<4	<4
2/2/2022	Wednesday	15.54	0.1227	3.018		46.31	2.839		19.12	3.831	83.43	5.10	<4
2/8/2022	Tuesday	48.20	0.1119	2.786	16	20.90	8.333	0.0259	17.22	2.020	68.73	14.7	<4
2/9/2022	Wednesday	21.57	0.1302	3		29.47	2.610		20.42	1.397	65.32	9.99	<4
2/15/2022	Tuesday	18.94	0.1278	19.84		37.37	2.110		14.38	2.807	63.88	6.31	<4
2/16/2022	Wednesday	20.32	0.1207	19.89		31.03	1.948		13.34	1.706	68.25	4.99	<4
2/22/2022	Tuesday	33.13	0.1183	2.237		27.13	1.693		12.41	0.7247	57.91	5.40	<4
2/23/2022	Wednesday	24.37	0.1662	4.974		29.14	9.535		13.53	6.093	76.75	5.88	<4
3/1/2022	Tuesday	22.37	0.1305	16.46		28.94	1.917		13.82	0.8401	64.37	4.01	4.01
3/2/2022	Wednesday	23.27	0.1419	12.16		30.79	3.268		16.80	1.381	71.21	<4	<4
3/8/2022	Tuesday	20.20	0.1495	4.203	15	36.93	5.082	0.0166	11.50	2.294	85.45	7.82	<4
3/9/2022	Wednesday	23.69	0.1312	2.535		35.17	1.960		11.55	1.260	71.18	7.13	<4
3/15/2022	Tuesday	19.40	0.1567	4.266		39.21	2.211		11.14	3.531	86.05	5.21	5.21
3/16/2022	Wednesday	18.92	0.1421	4.998		34.75	1.928		13.11	1.612	72.69	4.47	<4
3/22/2022	Tuesday	17.66	0.1506	3.182		41.60	2.853		13.66	1.345	82.13	<4	<4
3/23/2022	Wednesday	17.75	0.1683	4.915		59.11	2.870		11.50	1.109	97.96	<4	<4
3/29/2022	Tuesday	18.38	0.2188	4.011		32.90	1.966		15.25	0.7812	70.58	5.52	<4
3/30/2022	Wednesday	18.38	0.1477	6.530		42.14	2.287		10.88	1.437	81.19	18.7	5.20
4/5/2022	Tuesday	17.38	0.1414	12.50	28	42.63	2.338	0.0204	10.18	1.153	87	<4	<4
4/6/2022	Wednesday	26.26	0.1338	7.935		42.70	3.681		8.757	0.6151	95.45	4.20	<4
4/12/2022	Tuesday	18.58	0.1332	5.910		42.63	2.276		10.98	0.5461	75.18	<4	<4
4/13/2022	Wednesday	17.94	0.1844	4.939		40.06	2.604		10.01	0.6022	86.18	<4	<4
4/19/2022	Tuesday	38.96	0.1529	9.736		40.71	6.620		20.27	3	101.2	8.73	<4
4/20/2022	Wednesday	19.70	0.1308	6.917		32.71	2.352		25.13	1.011	69.91	5.82	<4
4/26/2022	Tuesday	19.18	0.1299	7.929		40.69	2.138		7.075	0.8072	78.88	7.56	<4
4/27/2022	Wednesday	18.50	0.1609	4.893		43.73	3.047		15	1.037	89.94	4.90	<4
5/3/2022	Tuesday	21.95	0.1604	5.791	29	53.52	4.811	0.0234	8.639	1.147	111.2	6.21	<4
5/4/2022	Wednesday	21.81	0.1831	4.681		45.30	5.298		10.02	0.7169	101.8	<4	<4
5/10/2022	Tuesday	15.45	0.1672	4.197		41.78	3.104		7.503	1.021	98.41	8.12	<4
5/11/2022	Wednesday	15.51	0.1748	2.993		34.70	2.026		7.584	1.239	81.18	4.90	<4
5/17/2022	Tuesday	15.09	0.1977	5.155		64.70	8.852		9.733	2.055	160.2	5.59	<4
5/18/2022	Wednesday	14.24	0.1929	4.850		67.69	6.361		7.981	0.9126	153.9	20.7	<4
5/24/2022	Tuesday	13.96	0.1410	3.187		51.86	2.691		13.12	0.9355	97.91	4.89	4.89
5/25/2022	Wednesday	14.01	0.1687	4.351		48.75	3.433		9.213	0.6785	111.6	4.72	<4
5/31/2022	Tuesday	13.14	0.1363	1.701		46.71	2.593		7.483	0.4469	90.31	5.50	<4
6/1/2022	Wednesday	13.90	0.1592	4.564		66.79	3.684		12.70	2.274	112.7	<4	<4
6/7/2022	Tuesday	13.48	0.1471	6.895	35	47.03	4.219	0.0459	13.11	0.6163	99.83	6.67	<4
6/8/2022	Wednesday	28.82	0.2273	4.087		30.26	18.59		12.76	0.2980	103.4	4.80	<4

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
6/14/2022	Tuesday	12.95	0.1361	2.916		47.46	2.701		10.63	2.502	96.29	5.83	<4
6/15/2022	Wednesday	13.19	0.1384	3.345		52.42	2.856		7.733	1.928	162.4	4.18	<4
6/21/2022	Tuesday	12.68	0.1333	5.860		49.35	3.261		8.722	1.505	108.7	5.05	5.05
6/22/2022	Wednesday	13.07	0.1724	4.227		51.23	4.723		9.408	2.158	112.6	<4	<4
6/28/2022	Tuesday	13.28	0.1406	4.394		47.28	8.164		8.116	5.680	99.95	<4	<4
6/29/2022	Wednesday	13.00	0.1624	3.382		54.52	3.030		7.728	1.497	113.9	<4	<4
7/5/2022	Tuesday	13.26	0.09807	0.9082		42.09	2.373		3.437	0.1779	85.73	<4	<4
7/6/2022	Wednesday	12.65	0.1245	2.370		50.69	2.885		9.765	0.5056	102.5	<4	<4
7/12/2022	Tuesday	13.08	0.1677	6.092	36	68.18	4.030	0.0219	17.58	1.140	135.5	<4	<4
7/13/2022	Wednesday	10.86	0.1635	4.287		58.53	9.029		15.43	2.005	140.4	<4	<4
7/19/2022	Tuesday	10.65	0.1353	5.716		52.02	7.006		10.54	1.292	111	7.72	<4
7/20/2022	Wednesday	11.38	0.1249	4.242		42.64	3.035		8.124	0.7437	98.14	4.22	<4
7/26/2022	Tuesday	12.79	0.1717	7.142		67.34	7.489		16.45	1.995	156.7	4.99	<4
7/27/2022	Wednesday	12.05	0.1337	7.449		53.10	3.054		8.753	0.9939	114.9	4.62	<4
8/2/2022	Tuesday	10.57	0.1416	5.594	46	62.42	4.009	0.0129	11.94	1.316	115.1	4.52	<4
8/3/2022	Wednesday	10.15	0.1428	4.989		59.14	3.469		13.89	1.135	126.4	4.89	<4
8/9/2022	Tuesday	17.61	0.1332	2.582		51.19	3.583		5.936	0.5259	108.7		
8/10/2022	Wednesday	10.76	0.1932	6.427		65.44	14.99		12.63	4.742	174.9	6.40	<4
8/11/2022	Thursday	10.84										<4	<4
8/16/2022	Tuesday	10.22	0.1188	3.989		52.66	2.735		11.29	1.339	93.63	4.79	<4
8/17/2022	Wednesday	10.32	0.1644	4.492		72.10	4.197		10.93	1.771	136.1	5.10	<4
8/23/2022	Tuesday	30.96	0.1456	4.867		62.71	9.147		10.53	2.426	114.4	5.22	<4
8/24/2022	Wednesday	12.30	0.1500	4.054		35.40	13.75		6.457	1.126	87.02	<4	<4
8/30/2022	Tuesday	11.22	0.2430	7.035		67.11	4.098		14.61	0.8680	121.3	6.16	<4
8/31/2022	Wednesday	15.04	0.1722	5.333		61.95	6.476		19.29	1.056	129.7	5.26	<4
9/6/2022	Tuesday	63.26	0.07807	1.968		18.59	5.933		3.147	0.5939	49.39	<4	<4
9/7/2022	Wednesday	20.96	0.1151	2.305		28.19	2.867		7.195	0.6679	66.51	4.30	<4
9/13/2022	Tuesday	23.36	0.2383	4.699	37	63.90	5.432	0.0225	21.16	1.638	108.5	4.74	<4
9/14/2022	Wednesday	14.56	0.1654	2.743		47.82	2.642		15.59	0.6846	86.93	4.66	<4
9/20/2022	Tuesday	13.42	0.1440	4.619		38.75	3.949		8.547	0.6917	94.52	6.80	<4
9/21/2022	Wednesday	13.20	0.1506	5.476		54.86	3.219		13.36	0.8418	97.89	4.51	<4
9/27/2022	Tuesday	13.23	0.1494	4.252		44.63	2.358		6.916	0.8132	81.68	5.94	<4
9/28/2022	Wednesday	12.91	0.1448	3.979		35.40	2.246		11.95	0.9428	87.98	4.53	<4
10/4/2022	Tuesday	24.03	0.1511	4.899	45	44.22	2.443	0.0166	9.974	1.185	86.32	<4	<4
10/5/2022	Wednesday	23.56	0.1801	7.429		47.59	6.682		10.36	2.558	106.2	5.53	<4
10/11/2022	Tuesday	12.52	0.1121	1.026		31.37	2.059		15.57	0.4370	71.18	<4	<4
10/12/2022	Wednesday	12.83	0.1444	5.613		45.38	2.731		60.38	1.017	96.68	<4	<4
10/18/2022	Tuesday	18.54	0.1324	8.074		32.06	4.181		17.18	1.494	73.70	20.3	<4
10/19/2022	Wednesday	15.20	0.1580	4.856		57.46	2.514		12.10	0.8757	88.86	9.86	<4
10/25/2022	Tuesday	19.94	0.1606	6.242		43.36	8.819		18.85	2.297	93.47	4.89	<4
10/26/2022	Wednesday	18.90	0.1338	4.549		43.42	5.588		12.23	1.793	87.52	4.60	<4
11/1/2022	Tuesday	15.22	0.1725	4.053		57.10	3.143		27.52	1.292	102.9	4.73	<4
11/2/2022	Wednesday	13.43	0.1590	5.709		42.96	3.347		13.83	1.393	90.12	5.04	<4
11/8/2022	Tuesday	12.63	0.1327	6.585		61.37	2.576	0.0241	8.008	1.107	88.56	<4	<4
11/9/2022	Wednesday	12.41	0.1744	4.065		44.31	3.461		16.44	1.491	110.5	<4	<4

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
11/15/2022	Tuesday	13.18	0.1299	3.455	36	42.91	3.072		35.81	1.675	80.10	6.46	<4
11/16/2022	Wednesday	29.84	0.1199	3.878		39.56	4.425		17.96	1.196	86.23	5.41	<4
11/22/2022	Tuesday	13.47	0.1238	5.153		37.33	2.365		10.36	0.4471	84.70	<4	<4
11/23/2022	Wednesday	13.74	0.1273	4.276		35.22	2.180		18.16	0.7512	74.77	4.70	4.70
11/29/2022	Tuesday	13.29	0.1149	5.110		34.38	2.362		129.2	1.341	75.82	12.7	<4
11/30/2022	Wednesday	31.87	0.1066	6.103		33.82	2.268		20.08	1.026	67.11	6.74	<4
12/6/2022	Tuesday	15.17	0.1182	17.99	31	31.93	2.221	0.0131	9.684	1.239	69.28	5.08	<4
12/7/2022	Wednesday	43.65	0.1142	13.38		34.62	5.515		16.80	1.693	85.03	<4	<4
12/13/2022	Tuesday	15.59	0.1660	5.510		37.78	6.819		8.371	1.366	78.38	5.12	<4
12/14/2022	Wednesday	15.13	0.1723	6.444		71.74	5.726		9.689	1.418	88.78	7.80	<4
12/20/2022	Tuesday	17.00	0.1380	1.920		29.21	1.685		10.44	0.6810	65.97	4.53	<4
12/21/2022	Wednesday	16.65	0.1273	3.511		34.43	1.974		10.72	0.5186	65.89	<4	<4
12/27/2022	Tuesday	20.24	0.1104	1.068		23.71	1.568		18.51	0.4644	50.54	5.66	<4
12/28/2022	Wednesday	19.54	0.1254	4.167		29.98	2.263		15.30	0.4528	64.09	4.68	<4

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

Bucklin Point Influent Metals, Al-Sn, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
1/4/2022	Tuesday	14.59	174.7	899.6	<10	<5	6.523	<5
1/5/2022	Wednesday	22.63	194		<10	<5	23.98	
1/11/2022	Tuesday	14.99	952.1		<10	<5	5.979	
1/12/2022	Wednesday	15.70	180.3		<10	<5	<3	
1/18/2022	Tuesday	16.44	216		<1	0.8105	36.11	
1/19/2022	Wednesday	16.20	185.8		<1	0.7294	10.68	
1/25/2022	Tuesday	15.40	165.4		<1	0.6886	5.177	
1/26/2022	Wednesday	14.25	193.7		<1	0.6228	2.696	
2/1/2022	Tuesday	15.01	161.3		<1	0.5864	25.55	
2/2/2022	Wednesday	15.54	187.5		<1	0.6699	20.20	
2/8/2022	Tuesday	48.20	445.8	1041	<1	0.8191	2.163	<5
2/9/2022	Wednesday	21.57	214.1		<1	0.7524	2.816	
2/15/2022	Tuesday	18.94	195.5		<1	0.7258	3.063	
2/16/2022	Wednesday	20.32	174.8		<1	0.6197	4.418	
2/22/2022	Tuesday	33.13	140.2		<1	0.6346	21.08	
2/23/2022	Wednesday	24.37	366.4		<1	0.7857	4.867	
3/1/2022	Tuesday	22.37	153		<1	0.6964	2.488	
3/2/2022	Wednesday	23.27	269.4		<1	0.8897	2.622	
3/8/2022	Tuesday	20.20	462.3	957.3	<1	0.7902	4.383	<5
3/9/2022	Wednesday	23.69	190.1		<1	0.6287	4.953	
3/15/2022	Tuesday	19.40	258.9		<1	0.7523	2.979	
3/16/2022	Wednesday	18.92	199.6		<1	0.6539	2.721	
3/22/2022	Tuesday	17.66	234.9		<1	0.7090	22.83	
3/23/2022	Wednesday	17.75	273.3		<1	0.7639	4.979	
3/29/2022	Tuesday	18.38	182.2		<1	0.7731	2.252	
3/30/2022	Wednesday	18.38	337.8		<1	0.7325	3.725	
4/5/2022	Tuesday	17.38	847.5	875.4	<1	0.6868	3.252	<5
4/6/2022	Wednesday	26.26	817.5		<1	0.6892	3.487	
4/12/2022	Tuesday	18.58	351.6		<1	0.6533	18.19	
4/13/2022	Wednesday	17.94	367.8		<1	0.7037	6.637	
4/19/2022	Tuesday	38.96	407.2		<1	0.8216	2.337	
4/20/2022	Wednesday	19.70	370.7		<1	0.8833	3.727	
4/26/2022	Tuesday	19.18	330.5		<1	0.7047	4.044	
4/27/2022	Wednesday	18.50	388.6		<1	0.7307	11.41	
5/3/2022	Tuesday	21.95	431.6	1097	<1	0.7616	8	<5
5/4/2022	Wednesday	21.81	401		<1	0.7939	10.16	
5/10/2022	Tuesday	15.45	272.5		<1	0.7505	3.877	
5/11/2022	Wednesday	15.51	237.5		<1	0.6182	2.474	
5/17/2022	Tuesday	15.09	577.8		<1	0.9592	4.663	
5/18/2022	Wednesday	14.24	536.7		<1	0.8414	3.094	
5/24/2022	Tuesday	13.96	342.2		<1	0.6747	3.889	
5/25/2022	Wednesday	14.01	326.8		<1	0.8090	70.01	
5/31/2022	Tuesday	13.14	224.5		<1	0.7155	2.045	
6/1/2022	Wednesday	13.90	343.8		<1	0.7980	11.63	
6/7/2022	Tuesday	13.48	620.5	999.6	<1	0.8192	41.88	<5

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

Bucklin Point Influent Metals, Al-Sn, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
6/8/2022	Wednesday	28.82	462.9		<1	2.405	15.16	
6/14/2022	Tuesday	12.95	572.7		<1	0.7844	15.65	
6/15/2022	Wednesday	13.19	866.1		<1	0.7496	11.78	
6/21/2022	Tuesday	12.68	291.1		<1	0.8058	4.936	
6/22/2022	Wednesday	13.07	465.1		<1	0.8352	6.873	
6/28/2022	Tuesday	13.28	373.3		<1	1.242	9.369	
6/29/2022	Wednesday	13.00	389.7		<1	0.8883	7.687	
7/5/2022	Tuesday	13.26	205.9		<1	0.7453	3.176	
7/6/2022	Wednesday	12.65	235.5		<1	0.8388	8.441	
7/12/2022	Tuesday	13.08	1576	1204	<1	1.051	26.96	<5
7/13/2022	Wednesday	10.86	592.6		<1	1.056	19.11	
7/19/2022	Tuesday	10.65	520.1		<1	1.022	6.322	
7/20/2022	Wednesday	11.38	236.2		<1	0.9118	22.71	
7/26/2022	Tuesday	12.79	434.7		<1	1.065	11.47	
7/27/2022	Wednesday	12.05	256.8		<1	0.7132	8.117	
8/2/2022	Tuesday	10.57	304.3	910.6	<1	0.7560	11.15	<5
8/3/2022	Wednesday	10.15	304.5		<1	0.8456	11.29	
8/9/2022	Tuesday	17.61	699.1		<1	0.8514	3.562	
8/10/2022	Wednesday	10.76	673.2		<1	1.212	5.628	
8/16/2022	Tuesday	10.22	409.5		<1	0.7469	23.36	
8/17/2022	Wednesday	10.32	312.6		<1	1.023	37.95	
8/23/2022	Tuesday	30.96	504		<1	1.232	3.831	
8/24/2022	Wednesday	12.30	462.3		<1	1.473	19.71	
8/30/2022	Tuesday	11.22	368		<1	1.051	13.84	
8/31/2022	Wednesday	15.04	369.7		<1	1.095	9.718	
9/6/2022	Tuesday	63.26	227.1		<1	0.7183	1.606	
9/7/2022	Wednesday	20.96	181.7		<1	0.9811	2.897	
9/13/2022	Tuesday	23.36	388.1	936.6	<1	0.9365	7.290	7.645
9/14/2022	Wednesday	14.56	229.3		<1	0.8641	46.74	
9/20/2022	Tuesday	13.42	1237		<1	1	12.22	
9/21/2022	Wednesday	13.20	322.4		<1	0.7660	3.500	
9/27/2022	Tuesday	13.23	290.6		<1	0.7837	15.08	
9/28/2022	Wednesday	12.91	273.6		<1	0.7411	7.196	
10/4/2022	Tuesday	24.03	273.6	762.9	<1	0.9235	60.45	<5
10/5/2022	Wednesday	23.56	873		<1	1.068	68.64	
10/11/2022	Tuesday	12.52	210.5		<1	0.7158	5.069	
10/12/2022	Wednesday	12.83	384.3		<1	0.7974	9.309	
10/18/2022	Tuesday	18.54	378		<1	0.7185	6.036	
10/19/2022	Wednesday	15.20	317.7		<1	0.8336	4.196	
10/25/2022	Tuesday	19.94	645.6		<1	1.103	13.99	
10/26/2022	Wednesday	18.90	678.4		<1	0.9606	6.872	
11/1/2022	Tuesday	15.22	423.2		<1	0.8741	72.05	
11/2/2022	Wednesday	13.43	1551		<1	0.9335	46.57	
11/8/2022	Tuesday	12.63	356.7	878.8	<1	0.6909	8.450	<5
11/9/2022	Wednesday	12.41	435.2		<1	0.7967	3.968	

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

Bucklin Point Influent Metals, Al-Sn, 2022

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
11/15/2022	Tuesday	13.18	432.8		<1	0.8860	22.84	
11/16/2022	Wednesday	29.84	520.6		<1	0.6758	11.36	
11/22/2022	Tuesday	13.47	238.6		<1	0.8032	6.554	
11/23/2022	Wednesday	13.74	259.5		<1	0.7368	5.391	
11/29/2022	Tuesday	13.29	246.4		<1	0.7927	7.541	
11/30/2022	Wednesday	31.87	202.3		<1	0.6813	2.241	
12/6/2022	Tuesday	15.17	369.9	850.1	<1	1.027	18.57	<5
12/7/2022	Wednesday	43.65	650.8		<1	0.7348	4.460	
12/13/2022	Tuesday	15.59	362.1		<1	0.8940	62.45	
12/14/2022	Wednesday	15.13	666.6		<1	1.011	53.24	
12/20/2022	Tuesday	17.00	245.7		<1	0.7164	26.04	
12/21/2022	Wednesday	16.65	374.6		<1	0.6842	42.66	
12/27/2022	Tuesday	20.24	136.7		<1	0.6484	2.088	
12/28/2022	Wednesday	19.54	356.2		<1	0.7343	8.135	

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/4/2022	Tuesday	14.59	0.02288	0.5346	<10	5.189	0.4258	0.00144	9.887	0.1322	29.33	4.49	<4
1/5/2022	Wednesday	22.63	0.02338	0.6244		5.214	0.4455		9.104	0.1456	30.97	<4	<4
1/11/2022	Tuesday	14.99	0.02827	0.7164	<10	5.980	0.5149		8.487	0.1641	37.42	7.43	<4
1/12/2022	Wednesday	15.70	0.02279	0.6623		4.696	0.3944		9.149	0.1328	36.73	13.2	<4
1/18/2022	Tuesday	16.44	0.02160	0.6720		4.016	0.3832		9.029	0.1374	34.68	4.73	<4
1/19/2022	Wednesday	16.20	<0.020	0.5502		3.229	0.3829		9.449	0.1006	33.55	<4	<4
1/25/2022	Tuesday	15.40	0.1182	0.8984		7.587	0.5188		9.660	0.1873	51.38	<4	<4
1/26/2022	Wednesday	14.25	0.03585	0.9216		7.703	0.4884		9.251	0.1860	48.31	<4	<4
2/1/2022	Tuesday	15.01	0.03753	0.7504		6.088	0.4188		8.788	0.1493	40.59	7.32	<4
2/2/2022	Wednesday	15.54	0.03996	0.7033		5.515	0.3895		11.24	0.1262	45.33	4.75	<4
2/8/2022	Tuesday	33.51	0.02113	0.7426	<10	5.417	0.5456	0.00221	6.257	0.2492	32.93	10.6	<4
2/9/2022	Wednesday	21.57	<0.020	0.7000		4.009	0.3850		9.816	0.1841	34.83	7.61	<4
2/15/2022	Tuesday	18.94	0.02850	2.332		6.556	0.6382		9.936	0.2526	36.68	14.1	<4
2/16/2022	Wednesday	20.32	0.02719	2.053		4.289	0.4390		10.32	0.1500	38.99	22.3	<4
2/22/2022	Tuesday	29.17	0.03709	0.7246		4.830	0.4810		9.732	0.1810	34.97	<4	<4
2/23/2022	Wednesday	23.72	0.02815	1.146		4.496	0.3920		8.191	0.1660	33.97	<4	<4
3/1/2022	Tuesday	22.37	0.05943	2.784		10.60	1.077		10.38	0.4985	43.61	<4	<4
3/2/2022	Wednesday	23.27	0.04567	1.778		6.495	0.6872		10.22	0.2532	40.52	<4	<4
3/8/2022	Tuesday	20.20	0.03912	0.7682	<10	4.734	0.4527	0.00156	7.970	0.1574	36.83	5.93	<4
3/9/2022	Wednesday	23.69	0.04707	1.191		6.794	0.6626		8.270	0.2843	39.87	5.22	<4
3/15/2022	Tuesday	19.40	0.04707	1.234		5.970	0.5808		10.36	0.2292	43.03	<4	<4
3/16/2022	Wednesday	18.92	0.04220	1.293		5.824	0.5369		11.16	0.2222	41.57	<4	<4
3/22/2022	Tuesday	17.66	0.04573	0.8393		5.013	0.4009		12.42	0.1187	38.03	<4	<4
3/23/2022	Wednesday	17.75	0.04761	0.9271		5.716	0.4269		12.32	0.1186	41.97	<4	<4
3/29/2022	Tuesday	18.38	0.05012	1.053		5.829	0.4423		10.19	0.1060	39.28	<4	<4
3/30/2022	Wednesday	18.38	0.05672	11.24		5.656	0.4448		10.18	0.1266	37.15	4.08	<4
4/5/2022	Tuesday	17.38	0.03969	3.197	<10	3.924	0.4582	0.00132	7.319	0.08599	39.47	<4	<4
4/6/2022	Wednesday	26.26	0.03201	2.874		4.504	0.4647		6.904	0.1121	35.37	<4	<4
4/12/2022	Tuesday	18.58	0.03394	1.493	<10	3.771	0.3776		7.544	0.05673	32.20	<4	<4
4/13/2022	Wednesday	17.94	0.03703	1.444		4.210	0.3791		7.553	0.05518	35.85	<4	<4
4/19/2022	Tuesday	30.18	0.02863	1.582		4.113	0.3503		6.991	0.08976	32.23	<4	<4
4/20/2022	Wednesday	19.70	0.02996	1.250		4.259	0.3115		6.771	0.06315	33.62	4.22	<4
4/25/2022	Monday	18.10			<10								
4/26/2022	Tuesday	19.18	0.02743	2.015		3.496	0.3367		6.824	0.06499	33.34	<4	<4
4/27/2022	Wednesday	18.50	0.02451	1.255		3.129	0.3035		5.763	0.05222	29.29	7.67	<4
5/3/2022	Tuesday	21.95	0.08129	0.8067	<10	2.987	0.3525	0.00142	4.459	0.07141	31.40	5.97	<4
5/4/2022	Wednesday	21.81	<0.020	0.8183		2.978	0.3042		4.787	0.04633	30.86	<4	<4
5/10/2022	Tuesday	15.45	0.02080	0.8089		3.075	0.3393		5.057	0.04722	32.91	7.97	<4
5/11/2022	Wednesday	15.51	<0.020	0.8411		3.399	0.3547		5.932	0.05721	34.49	5.07	5.07
5/17/2022	Tuesday	15.09	<0.020	0.6611		3.088	0.3279		5.143	0.03562	34.19	<4	<4
5/18/2022	Wednesday	14.24	<0.020	0.9355		3.431	0.3566		6.563	0.03871	39.38	7.88	<4
5/24/2022	Tuesday	13.96	<0.020	0.6720		2.928	<0.300		5.671	0.02994	34.37	6.13	<4
5/25/2022	Wednesday	14.01	0.03063	0.8045		3.196	<0.300		6.200	0.02622	32.74	<4	<4
5/31/2022	Tuesday	13.14	0.02717	0.4330		3.679	<0.300		6.793	0.03979	36.26	7.45	<4

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
6/1/2022	Wednesday	13.90	<0.020	0.5717		3.751	<0.300		7.320	0.04686	40.18	5.21	<4
6/7/2022	Tuesday	13.48	0.03359	1.309	<10	4.166	0.3450	<0.001	9.487	0.04745	43.54	<4	<4
6/8/2022	Wednesday	24.19	0.02063	1.040		4.326	0.3453		7.063	0.08889	34.53	4.03	<4
6/14/2022	Tuesday	12.95	0.02355	0.5471		4.338	0.3021		6.496	0.05905	35.67	<4	<4
6/15/2022	Wednesday	13.19	0.02632	2.192		4.817	0.3134		6.933	0.05295	42.54	6.08	<4
6/21/2022	Tuesday	12.68	0.02253	0.8838		4.864	0.3842		7.412	0.05903	44.02	<4	<4
6/22/2022	Wednesday	13.07	0.02252	0.8646		5.459	0.3731		7.483	0.06537	42.34	5.74	5.74
6/28/2022	Tuesday	13.28	0.02237	0.7608		5.146	0.3557		5.435	0.09083	36.65	<4	<4
6/29/2022	Wednesday	13.00	0.02284	0.7727		5.571	0.5091		6.382	0.07833	40.74	<4	<4
7/5/2022	Tuesday	13.26	0.03385	0.4250		6.714	0.4172		4.812	0.06495	42.01	4.16	<4
7/6/2022	Wednesday	12.65	0.03605	0.5063		6.282	0.4237		5.337	0.05194	42.74	<4	<4
7/12/2022	Tuesday	13.08	0.03324	0.7948	10	6.062	0.5562	0.00131	8.276	0.05481	46.72	<4	<4
7/13/2022	Wednesday	10.86	0.02729	0.8199		5.902	0.7820		8.031	0.06149	42.94	<4	<4
7/19/2022	Tuesday	10.65	0.02922	1.065		5.292	0.4551		7.326	0.05332	41.81	<4	<4
7/20/2022	Wednesday	11.38	0.03104	1.070		5.298	0.4765		7.440	0.04542	45.76	5.71	<4
7/26/2022	Tuesday	12.79	0.02927	1.649		6.387	0.5761		7.495	0.05818	40.50	<4	<4
7/27/2022	Wednesday	12.05	0.03165	1.689		7.056	0.5818		8.662	0.05819	43.09	<4	<4
8/2/2022	Tuesday	10.57	<0.020	1.052	<10	5.372	0.5673	0.00143	6.913	0.07193	44.17	4.78	<4
8/3/2022	Wednesday	10.15	0.02074	1.252		5.078	0.5576		7.869	0.06134	41.10	<4	<4
8/9/2022	Tuesday	17.61	0.02057	0.7972		5.879	0.5403		6.881	0.07479	56.97		
8/10/2022	Wednesday	10.76	<0.020	1.163		4.942	0.4703		7.573	0.09758	37.16	<4	<4
8/11/2022	Thursday	10.84										<4	<4
8/16/2022	Tuesday	10.22	0.02393	1.050	<10	5.111	0.5336		7.014	0.06318	41.33	5.13	<4
8/17/2022	Wednesday	10.32	0.02310	1.061		5.555	0.5481		6.940	0.07681	37.96	5.49	<4
8/23/2022	Tuesday	22.53	0.02308	1.077		7.893	0.5253		5.735	0.1460	34.29	<4	<4
8/24/2022	Wednesday	12.30	0.02742	0.9958		7.177	0.4655		5.882	0.1004	39.68	8.94	<4
8/30/2022	Tuesday	11.22	0.03476	0.9341		10.08	0.4913		10.35	0.1084	43.03	<4	<4
8/31/2022	Wednesday	15.04	0.03035	1.020		9.199	0.5019		8.805	0.1178	39.63	4.15	<4
9/6/2022	Tuesday	36.29	0.02377	0.8709		8.304	0.4571		3.193	0.1189	29.94	4.99	4.99
9/7/2022	Wednesday	20.96	0.02846	0.8127		7.412	0.3915		4.772	0.09776	35.57	<4	<4
9/13/2022	Tuesday	21.85	0.03065	0.6157	<10	5.251	0.4030	0.00143	6.847	0.07094	31.16	<4	<4
9/14/2022	Wednesday	14.56	0.05496	0.6869		4.726	0.3698		7.269	0.05737	30.57	<4	<4
9/20/2022	Tuesday	13.42	0.03128	0.7028		4.764	0.3848		5.852	0.04780	32.50	4.13	<4
9/21/2022	Wednesday	13.20	0.02984	1.009		4.937	0.3444		5.773	0.03970	29.35	<4	<4
9/27/2022	Tuesday	13.23	0.03528	0.7589		4.852	0.3915		5.139	0.05153	33.32	<4	<4
9/28/2022	Wednesday	12.91	<0.020	0.7562		2.454	<0.300		8.013	<0.020	18.13	5.40	<4
10/4/2022	Tuesday	20.60	0.04237	1.044	<10	6.033	0.4535	0.00138	5.531	0.08539	36.20	<4	<4
10/5/2022	Wednesday	20.98	0.04575	0.9199		6.319	0.4132		5.288	0.08398	31.31	<4	<4
10/11/2022	Tuesday	12.52	0.02981	0.4650		5.725	0.4068		19.24	0.06949	35.83	4.41	<4
10/12/2022	Wednesday	12.83	0.02918	0.7670		5.161	0.3432		23.47	0.05452	32.56	<4	<4
10/18/2022	Tuesday	18.54	0.02239	1.264		4.626	0.3301		9.237	0.07872	31.30	<4	<4
10/19/2022	Wednesday	15.20	0.02318	1.134		4.015	0.3124		8.801	0.05228	29.55	<4	<4
10/25/2022	Tuesday	19.94	0.02096	1.110		4.331	0.3618		8.654	0.06572	30.16	<4	<4
10/26/2022	Wednesday	18.90	<0.020	0.9632		3.587	0.3192		8.529	0.05237	28.24	7.05	<4

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2022

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
11/1/2022	Tuesday	15.22	0.02385	0.7329		3.496	0.3856		9.342	0.06588	28.73	<4	<4
11/2/2022	Wednesday	13.43	0.02218	1.013	<10	3.215	0.3576		8.115	0.04866	27.37	<4	<4
11/8/2022	Tuesday	12.63	0.02332	0.9650		3.795	1.149	0.00153	5.787	0.05399	28.58	<4	<4
11/9/2022	Wednesday	12.41	<0.020	0.7864		3.546	0.5408		7.213	0.05457	29.58	<4	<4
11/15/2022	Tuesday	13.18	0.02389	1.067	<10	5.381	0.6221		18.30	0.1537	34.32	8	<4
11/16/2022	Wednesday	29.09	0.02140	1.015		5.727	0.5047		10.01	0.1680	28.58	33.5	<4
11/22/2022	Tuesday	13.47	0.08954	1.999		6.372	3.268		8.587	0.1899	66.48	<4	<4
11/23/2022	Wednesday	13.74	<0.020	1.264		3.898	0.3449		7.605	0.05773	28.38	4.15	<4
11/29/2022	Tuesday	13.29	<0.020	0.9759		4.148	0.3691		41.09	0.05068	32.20	4.19	<4
11/30/2022	Wednesday	23.44	0.02094	1.632		5.683	0.4608		22.66	0.1284	33.01	4.18	<4
12/6/2022	Tuesday	15.17	0.02122	2.411	<10	3.643	0.4608	0.00128	7.367	0.06474	31.40	<4	<4
12/7/2022	Wednesday	33.35	<0.020	1.568		4.366	0.3427		7.131	0.07688	28.31	<4	<4
12/13/2022	Tuesday	15.59	0.03657	1.093		4.429	0.3947		6.166	0.06944	33.04	4.62	<4
12/14/2022	Wednesday	15.13	0.04661	1.362		4.464	0.4732		6.387	0.05085	33.56	4.24	<4
12/20/2022	Tuesday	17.00	0.02141	0.6522		3.800	0.3768		5.300	0.07118	30.33	4.63	<4
12/21/2022	Wednesday	16.65	0.03162	0.8971		4.833	0.4042		6.918	0.06970	31.11	<4	<4
12/27/2022	Tuesday	20.24	<0.020	1.540		2.211	<0.300		8.376	<0.020	23.14	<4	<4
12/28/2022	Wednesday	19.54	0.02923	0.9580		4.503	0.3973		9.926	0.06503	29.10	5.17	<4

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

Bucklin Point Effluent Metals, Al-Sn, 2022

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
1/4/2022	Tuesday	14.59	49.94	134.8	<1	0.5072	5.371	<5
1/5/2022	Wednesday	22.63	52.34		<1	0.5445	16.20	
1/11/2022	Tuesday	14.99	62.81		<1	0.5843	4.998	
1/12/2022	Wednesday	15.70	<50		<1	0.5687	3.686	
1/18/2022	Tuesday	16.44	38.65		<1	0.6331	20.56	
1/19/2022	Wednesday	16.20	30.86		<1	0.5234	14.56	
1/25/2022	Tuesday	15.40	62.25		<1	0.6813	3.809	
1/26/2022	Wednesday	14.25	55.97		<1	0.5893	3.220	
2/1/2022	Tuesday	15.01	34.86		<1	0.5385	16.36	
2/2/2022	Wednesday	15.54	27.73		<1	0.5187	18.06	
2/8/2022	Tuesday	33.51	59.04	132.8	<1	0.5496	2.325	<5
2/9/2022	Wednesday	21.57	33.34		<1	0.5989	2.515	
2/15/2022	Tuesday	18.94	67.73		<1	0.5905	1.934	
2/16/2022	Wednesday	20.32	35.87		<1	0.5938	3.369	
2/22/2022	Tuesday	29.17	37.52		<1	0.5416	12.33	
2/23/2022	Wednesday	23.72	33.82		<1	0.5115	6.218	
3/1/2022	Tuesday	22.37	106.8		<1	0.5362	2.106	
3/2/2022	Wednesday	23.27	62.26		<1	0.6009	2.247	
3/8/2022	Tuesday	20.20	37.12	116.8	<1	0.5002	3.427	<5
3/9/2022	Wednesday	23.69	65.93		<1	0.5482	4.069	
3/15/2022	Tuesday	19.40	42.44		<1	0.5589	2.423	
3/16/2022	Wednesday	18.92	37.94		<1	0.5664	2.766	
3/22/2022	Tuesday	17.66	26.61		<1	0.5220	9.910	
3/23/2022	Wednesday	17.75	29.89		<1	0.5805	6.635	
3/29/2022	Tuesday	18.38	30.62		<1	0.5065	1.799	
3/30/2022	Wednesday	18.38	28.08		<1	0.5405	2.934	
4/5/2022	Tuesday	17.38	22.93	87.67	<1	0.5535	2.648	<5
4/6/2022	Wednesday	26.26	30.28		<1	0.5444	3.218	
4/12/2022	Tuesday	18.58	19.88		<1	<0.500	11.41	
4/13/2022	Wednesday	17.94	21.21		<1	0.5202	7.396	
4/19/2022	Tuesday	30.18	23.10		<1	0.5256	2.217	
4/20/2022	Wednesday	19.70	20.92		<1	0.5688	2.621	
4/26/2022	Tuesday	19.18	19.34		<1	0.5639	3.321	
4/27/2022	Wednesday	18.50	19.71		<1	0.5158	8.349	
5/3/2022	Tuesday	21.95	16.35	73.52	<1	0.5457	6.374	<5
5/4/2022	Wednesday	21.81	17.33		<1	<0.500	6.358	
5/10/2022	Tuesday	15.45	16.43		<1	0.5044	2.626	
5/11/2022	Wednesday	15.51	17.13		<1	0.5426	2.402	
5/17/2022	Tuesday	15.09	15.10		<1	0.5418	2.619	
5/18/2022	Wednesday	14.24	15.97		<1	0.6338	3.071	
5/24/2022	Tuesday	13.96	13.75		<1	<0.500	9.023	
5/25/2022	Wednesday	14.01	13.07		<1	<0.500	46.14	
5/31/2022	Tuesday	13.14	9.971		<1	<0.500	2.729	
6/1/2022	Wednesday	13.90	11.44		<1	<0.500	6.600	
6/7/2022	Tuesday	13.48	17.75	125.5	<1	<0.500	39.77	<5
6/8/2022	Wednesday	24.19	20.41		<1	<0.500	13.02	
6/14/2022	Tuesday	12.95	13.33		<1	<0.500	13.04	
6/15/2022	Wednesday	13.19	13.46		<1	0.5036	13.16	
6/21/2022	Tuesday	12.68	14.30		<1	0.5585	4.017	
6/22/2022	Wednesday	13.07	16.69		<1	0.5772	5.581	
6/28/2022	Tuesday	13.28	16.97		<1	0.6581	7.306	
6/29/2022	Wednesday	13.00	17.82		<1	0.6215	6.705	
7/5/2022	Tuesday	13.26	15.74		<1	0.5347	2.619	
7/6/2022	Wednesday	12.65	15.35		<1	0.5478	4.741	
7/12/2022	Tuesday	13.08	22.29	118.6	<1	0.5708	15.18	<5
7/13/2022	Wednesday	10.86	24.23		<1	0.6396	15.80	
7/19/2022	Tuesday	10.65	23.53		<1	0.6908	6.115	
7/20/2022	Wednesday	11.38	21.74		<1	0.7053	13.16	
7/26/2022	Tuesday	12.79	20.17		<1	0.5998	6.856	
7/27/2022	Wednesday	12.05	19.87		<1	0.6637	7.475	
8/2/2022	Tuesday	10.57	19.69	113.4	<1	0.6004	6.190	<5
8/3/2022	Wednesday	10.15	33.24		<1	0.5696	8.560	
8/9/2022	Tuesday	17.61	25.60		<1	0.5992	2.456	
8/10/2022	Wednesday	10.76	22.68		<1	0.6922	3.455	

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

Bucklin Point Effluent Metals, Al-Sn, 2022

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
8/16/2022	Tuesday	10.22	20.40		<1	0.6248	23.59	
8/17/2022	Wednesday	10.32	22.41		<1	0.6300	28.74	
8/23/2022	Tuesday	22.53	31.59		<1	0.7219	2.685	
8/24/2022	Wednesday	12.30	24.19		<1	0.8455	11.57	
8/30/2022	Tuesday	11.22	27.38		<1	0.7589	9.679	
8/31/2022	Wednesday	15.04	26.92		<1	0.7668	8.808	
9/6/2022	Tuesday	36.29	27.57		<1	0.6711	2.068	
9/7/2022	Wednesday	20.96	21.85		<1	0.8727	2.711	
9/13/2022	Tuesday	21.85	17.71	81.30	<1	0.6148	7.579	<5
9/14/2022	Wednesday	14.56	15.21		<1	0.6438	31.45	
9/20/2022	Tuesday	13.42	20.17		<1	0.6002	8.061	
9/21/2022	Wednesday	13.20	17.38		<1	0.5713	5.409	
9/27/2022	Tuesday	13.23	19.19		<1	0.5411	12.96	
9/28/2022	Wednesday	12.91	5.389		<1	1.901	8.565	
10/4/2022	Tuesday	20.60	27.60	88.38	<1	0.6186	30.49	<5
10/5/2022	Wednesday	20.98	30.45		<1	0.6170	41.29	
10/11/2022	Tuesday	12.52	21.85		<1	0.5669	4.281	
10/12/2022	Wednesday	12.83	19.52		<1	0.5840	6.685	
10/18/2022	Tuesday	18.54	21.38		<1	0.5768	4.916	
10/19/2022	Wednesday	15.20	19.97		<1	0.5555	3.681	
10/25/2022	Tuesday	19.94	20.27		<1	0.5797	6.923	
10/26/2022	Wednesday	18.90	16.82		<1	0.6036	5.174	
11/1/2022	Tuesday	15.22	18.94		<1	0.5866	52.61	
11/2/2022	Wednesday	13.43	18.99		<1	0.5734	45.06	
11/8/2022	Tuesday	12.63	17.96	62.68	<1	0.5461	6.501	<5
11/9/2022	Wednesday	12.41	19.74		<1	0.5276	4.430	
11/15/2022	Tuesday	13.18	40.52		<1	0.5908	16.62	
11/16/2022	Wednesday	29.09	51.88		<1	0.5121	8.875	
11/22/2022	Tuesday	13.47	51.70		<1	0.6767	5.106	
11/23/2022	Wednesday	13.74	18.15		<1	0.5126	8.065	
11/29/2022	Tuesday	13.29	21.33		<1	<0.500	5.532	
11/30/2022	Wednesday	23.44	33.56		<1	<0.500	2.900	
12/6/2022	Tuesday	15.17	31.01	80.38	<1	0.8078	11.64	<5
12/7/2022	Wednesday	33.35	32.56		<1	<0.500	5.935	
12/13/2022	Tuesday	15.59	31.29		<1	0.5811	41.95	
12/14/2022	Wednesday	15.13	26.14		<1	0.5971	47.05	
12/20/2022	Tuesday	17.00	30.03		<1	0.5593	20.07	
12/21/2022	Wednesday	16.65	30.04		<1	0.5935	35.06	
12/27/2022	Tuesday	20.24	6.885		<1	2.207	6.389	
12/28/2022	Wednesday	19.54	28.22		<1	0.5094	5.354	

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

Field's Point Influent and Effluent Nutrients 2022

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate+Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/03/22	0.437	1.37	1.81	19.2	33	3.80	34.8
01/04/22	0.326	1.41	1.74	18.4	32.2		33.9
01/05/22	0.273	2.02	2.29	14.6	29		31.3
01/10/22	0.411	1.75	2.16	18.4	30.4	3.63	32.6
01/11/22	0.271	1.37	1.64	18.8	31		32.6
01/12/22	0.330	1.25	1.58	18.4	33.5		35.1
01/17/22	0.118	1.74	1.86	8.87	16.8	2.24	18.7
01/18/22	0.158	2.58	2.74	12.8	20.9		23.6
01/19/22	0.191	2.37	2.56	11.6	20.3		22.9
01/24/22	0.247	2.20	2.45	17.7	32.2	3.97	34.6
01/25/22	0.324	1.63	1.95	18.2	36		37.9
01/26/22	0.380	1.34	1.72	20	33.2		34.9
01/31/22	0.335	0.935	1.27	19.7	34.7	4.03	36
02/01/22	0.359	1.24	1.60	20.2	35.5		37.1
02/02/22	0.300	1.01	1.31	18.9	30.5		31.8
02/07/22	0.339	2.10	2.44	9.28	13.7	2.03	16.1
02/08/22	0.195	3.37	3.57	9.52	16.6		20.2
02/09/22	0.230	3.54	3.77	11.7	19.7		23.5
02/14/22	0.279	3.21	3.49	15.1	24.4	3.24	27.9
02/15/22	0.306	2.93	3.24	15.9	26.2		29.4
02/16/22	0.271	3.23	3.50	14	28.2		31.7
02/21/22	0.347	3.68	4.03	13.9	24	2.80	28
02/22/22	0.259	3.33	3.59	12.6	22.1		25.7
02/23/22	0.266	4.34	4.61	13.6	23		27.6
02/28/22	0.349	2.69	3.04	15.2	25.6	3.09	28.6
03/01/22	0.344	2.93	3.27	14.3	26.7		30
03/02/22	0.339	3.46	3.80	14.3	24.6		28.4
03/07/22	0.494	2.98	3.47	14.5	26.5	3.09	30
03/08/22	0.320	3.30	3.62	15.7	29		32.6
03/09/22	0.224	3.46	3.68	14.6	22.6		26.3
03/14/22	0.326	3.80	4.13	15.8	24.4	3.16	28.5
03/15/22	0.278	2.99	3.27	15.9	24.1		27.4
03/16/22	0.322	2.22	2.54	17.5	26.7		29.2
03/21/22	0.372	2.61	2.98	19.1	28	3.68	31
03/22/22	0.373	2.28	2.65	18.4	29.5		32.1
03/23/22	0.182	2.62	2.80	18.5	31.5		34.3
03/28/22	0.350	2.76	3.11	15.8	30	3.64	33.1
03/29/22	0.360	2.33	2.69	16.9	29		31.7
03/30/22	0.364	2.60	2.96	15.6	29.5		32.5
04/04/22	0.492	3.66	4.15	17.1	33.4	4.30	37.5
04/05/22	0.348	1.79	2.14	19.4	35.5		37.6
04/06/22	0.180	1.47	1.65	14	24.7		26.3
04/11/22	0.310	2.05	2.36	16.8	32.7	3.19	35.1
04/12/22	0.300	2.75	3.05	16.6	29.5		32.5
04/13/22	0.412	1.83	2.24	17.2	31.5		33.7
04/18/22	0.250	0.970	1.22	15.5	25.8	3.29	27
04/19/22	0.106	1.23	1.34	9.64	16.7		18
04/20/22	0.149	1.49	1.64	11.3	18.6		20.2
04/25/22	0.208	0.264	0.472	16.4	27.7	3.52	28.2
04/26/22	0.196	0.531	0.727	15	24.9		25.6
04/27/22	0.203	0.410	0.613	17.4	22.7		23.3
05/02/22	0.0781	0.192	0.270	12.9	19.1	3.63	19.4
05/03/22	0.112	0.394	0.506	15.5	20.3		20.8
05/04/22	0.0795	0.204	0.284	13.8	18.2		18.5
05/09/22	0.0378	<0.100	0.133	19.2	28.6	4.03	28.7
05/10/22	0.0279	0.100	0.128	18.6	22.7		22.8
05/11/22	0.0282	<0.100	0.119	18.2	23.5		23.6
05/16/22	0.0579	0.400	0.458	16.6	30.2	4.67	30.7
05/17/22	0.0869	0.104	0.191	17.8	21.6		21.8
05/18/22	0.0593	<0.100	0.155	16.3	19		19.2
05/23/22	0.192	<0.100	0.201	16.8	27.8	3.71	28
05/24/22	0.161	<0.100	0.220	17.7	21.3		21.5
05/25/22	0.205	<0.100	0.201	17	20.5		20.7
05/30/22	0.478	<0.100	0.467	16.4	27.7	3.58	28.2
05/31/22	0.418	<0.100	0.434	17.4	20.9		21.3
06/01/22	0.412	<0.100	0.329	16.9	21.1		21.4
06/06/22	0.0699	<0.100	<0.100	18.1	22.3	4.24	22.3
06/07/22	0.0161	<0.100	<0.100	17.4	23.3		23.3
06/08/22	0.0731	0.181	0.254	8.75	10.9		11.2
06/13/22	0.0826	<0.100	0.173	9.34	16.6	2.38	16.8
06/14/22	0.0358	<0.100	<0.100	12	13.8		13.8
06/15/22	0.0693	<0.100	0.118	17.1	19		19.1
06/20/22	0.0293	<0.100	<0.100	18.3	21.4	3.59	21.4
06/21/22	0.253	<0.100	0.265	18	20.8		21.1
06/22/22	0.203	<0.100	0.148	18.3	26.2		26.3
06/27/22	0.265	<0.100	0.310	10.8	22.1	2.85	22.4
06/28/22	0.332	<0.100	0.407	9.92	11.1		11.5
06/29/22	0.321	<0.100	0.301	13.7	16.6		16.9
07/04/22	0.474	<0.100	0.399	17.4	21.5	3.13	21.9
07/05/22	0.451	<0.100	0.365	18	22.1		22.5
07/06/22	0.523	<0.100	0.418	17.6	31.7		32.1
07/11/22	0.412	<0.100	0.463	18.5	36.2	3.38	36.7
07/12/22	0.413	<0.100	0.390	15.1	27.2		27.6
07/13/22	0.379	<0.100	0.442	15.5	16.2		16.6

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate+Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/03/22	0.141	1.43	1.57	2.10	3.29	1.50	4.86
01/04/22	0.142	1.61	1.75	3.31	4.91		6.66
01/05/22	0.159	2.65	2.81	3.67	5.27		8.08
01/10/22	0.118	2.01	2.13	3.63	5.12	2.14	7.25
01/11/22	0.116	1.90	2.02	4.73	5.87		7.89
01/12/22	0.126	2.09	2.22	4.41	5.58		7.80
01/17/22	0.154	3.51	3.66	3.96	5.15	1.87	8.81
01/18/22	0.173	3.50	3.67	5.31	6.68		10.3
01/19/22	0.168	2.96	3.13	4.40	5.99		9.12
01/24/22	0.0679	0.402	0.470	5.16	7.18	1.04	7.65
01/25/22	0.0774	0.530	0.607	5.43	7.32		7.93
01/26/22	0.0716	0.606	0.678	7.25	9.04		9.72
01/31/22	0.0673	0.352	0.419	8.43	9.58	2.08	10
02/01/22	0.0723	0.405	0.477	7.27	8.55		9.03
02/02/22	0.0786	0.642	0.721	7.96	9.58		10.3
02/07/22	0.101	2.17	2.27	4.74	8.57	2.30	10.8
02/08/22	0.211	3.10	3.31	5.66	6.86		10.2
02/09/22	0.212	2.69	2.90	6.23	8.93		11.8
02/14/22	0.106	0.563	0.669	8.04	10	0.671	10.7
02/15/22	0.0737	0.460	0.534	8.48	10.8		11.3
02/16/22	0.120	1.23	1.35	6.14	10.5		11.8
02/21/22	0.150	2.59	2.74	5.36	7.48	0.586	10.2
02/22/22	0.115	2.81	2.93	5.21	7.41		10.3
02/23/22	0.120	2.62	2.74	5.97	7.85		10.6
02/28/22	0.252	2.45	2.70	7.22	8.53	1.83	11.2
03/01/22	0.348	3.15	3.50	7.66	8.89		12.4
03/02/22	0.401	3.71	4.11	7.44	9.23		13.3
03/07/22	0.203	0.756	0.959	5.88	7.12	1.22	8.08
03/08/22	0.150	0.920	1.07	7.62	9.72		10.8
03/09/22	0.184	2.23	2.41	7.81	8.99		11.4
03/14/22	0.130	1.27	1.40	6.52	7.67	1.72	9.07
03/15/22	0.111	0.979	1.09	7.34	8.43		9.52
03/16/22	0.0912	0.672	0.763	8.55	10		10.8
03/21/22	0.188	1.60	1.79	5.60	6.63	1.99	8.42
03/22/22	0.152	1.97	2.12	6.40	7.49		9.61
03/23/22	0.174	2.91	3.08	6.56	7.99		11.1
03/28/22	0.234	2.29	2.52	5.72	7.09	1.95	9.61
03/29/22	0.254	2.30	2.55	6.34	7.76		10.3
03/30/22	0.233	1.73	1.96	5.69	7.76		9.72
04/04/22	0.290	1.44	1.73	6.87	8.51	2.20	10.2
04/05/22	0.209	2.99	3.20	7.49	9		12.2
04/06/22	0.239	4.89	5.13	4.40	5.44		10.6
04/11/22	0.349	4.38	4.73	2.72	4.02	1.51	8.75
04/12/22	0.305	5.25	5.56	2.19	3.27		8.83
04/13/22	0.146	5.96	6.11	1.45	2.52		8.63
04/18/22	0.213	1.27	1.48	4.24	5.58	1.98	7.06
04/19/22	0.484	2.23	2.71	3.52	4.55		7.26
04/20/22	0.565	1.45	2.02	3.23	4.31		6.33
04/25/22	0.129	0.364	0.493	3.01	3.80	1.34	4.29
04/26/22	0.118	0.511	0.629	2.07	2.99		3.62
04/27/22	0.172	0.810	0.982	3	4.02		5
05/02/22	0.0563	0.684	0.740	1.28	2.35	2.27	3.09
05/03/22	0.0456	0.395	0.441	0.742	1.63		2.07
05/04/22	0.0646	0.302	0.367	1.05	2.01		2.38
05/09/22	0.0530	0.851	0.904	1.59	2.61	2.65	3.51
05/10/22	0.0259	1.03	1.06	0.786	1.90		2.96
05/11/22	0.0268	0.580	0.607	0.978	1.95		2.56
05/16/22	0.0170	0.182	0.199	0.918	1.90	2.43	2.10
05/17/22	<0.010	0.361	0.361	0.172	1.09		1.45
05/18/22	<0.010	0.445	0.445	<0.100	1.08		1.52
05/23/22	<0.010	<0.100	<0.100	0.847	1.91	2.67	1.91
05/24/22	<0.010	0.115	0.115	0.253	1.40		1.51
05/25/22	0.0160	0.623	0.639	0.468	1.83		2.47
05/30/22	<0.010	0.217	0.217	<0.100	1.20	2.39	1.42
05/31/22	<0.010	0.308	0.308	0.130	1.29		1.60
06/01/22	<0.010	0.373	0.373	<0.100	1.34		1.71
06/06/22	<0.010	0.133	0.133	<0.100	1.36	2.82	1.49
06/07/22	0.0195	0.610	0.630	0.659	2.25		2.88
06/08/22	<0.010	0.837	0.837	<0.100	1.14		1.98
06/13/22	<0.010	1.15	1.15	<0.100	1.07	1.54	2.22
06/14/22	<0.010	0.500	0.500	0.193	1		1.50
06/15/22	<0.010	0.306	0.306	<0.100	1.12		1.43
06/20/22	<0.010	0.119	0.119	<0.100	1.07	2.27	1.19
06/21/22	<0.010	0.138	0.138	<0.100	1.23		1.37
06/22/22	<0.010	0.323	0.323	<0.100	1.23		1.55
06/27/22	0.0189	1.11	1.13	0.674	2	1.99	3.13
06/28/22	0.0273	0.331	0.358	0.867	1.90		2.26
06/29/22	0.0144	0.158	0.172	0.565	1.39		1.56
07/04/22	0.0171	0.172	0.189	0.751	1.65	1.94	1.84
07/05/22	0.0243	0.146	0.170	1.51	2.76		2.93
07/06/22	0.0173	0.179	0.196	0.638	1.78		1.98
07/11/22	0.0253	<0.100	<0.100	1.48	2.42	2.74	2.42
07/12/22	0.0181	<0.100	<0.100	2.55	3.86		3.86
07/13/22	<0.010	<0.100	<0.100	0.795	1.85		1.85

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2022

Field's Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate+Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
07/18/22	0.0271	<0.100	<0.100	16.2	17.5	3.62	17.5
07/19/22	0.0203	<0.100	<0.100	16.8	17.3		17.3
07/20/22	0.0154	<0.100	<0.100	16.7	19.9		19.9
07/25/22	0.0286	<0.100	<0.100	16.1	32.6	3.52	32.6
07/26/22	0.129	<0.100	0.160	17.7	34		34.2
07/27/22	0.142	<0.100	0.132	17	43		43.1
08/01/22	0.0310	<0.100	0.112	17.6	35.2	3.78	35.3
08/02/22	<0.010	<0.100	<0.100	18	33.5		33.5
08/03/22	0.0143	<0.100	<0.100	17.6	23.2		23.2
08/08/22	0.0246	<0.100	<0.100	17	28.5	3.52	28.5
08/09/22	0.0150	<0.100	0.114	15.6	27.7		27.8
08/10/22	0.0150	<0.100	<0.100	17.6	33		33
08/15/22	0.0829	<0.100	<0.100	19.5	35	4.35	35
08/16/22	0.184	<0.100	0.220	18	33.7		33.9
08/17/22	0.543	<0.100	0.420	18.5	33.5		33.9
08/22/22	0.193	0.120	0.313	11.7	22.8	3.60	23.1
08/23/22	0.484	0.186	0.670	8.22	14.4		15.1
08/24/22	0.516	<0.100	0.583	9.25	16		16.6
08/29/22	0.464	0.148	0.612	16.2	26	5.67	26.6
08/30/22	0.499	0.205	0.704	17.6	27.7		28.4
08/31/22	0.409	0.291	0.700	17	33.5		34.2
09/05/22	0.303	0.575	0.878	9.27	20	2.57	20.9
09/06/22	0.341	2.38	2.72	3.30	8.20		10.9
09/07/22	0.511	1.69	2.20	6.53	14.1		16.3
09/12/22	0.174	0.245	0.419	12.3	22.5	2.90	22.9
09/13/22	0.0832	<0.100	0.169	9.18	17		17.2
09/14/22	0.0207	<0.100	0.106	13.9	25.2		25.3
09/19/22	0.0202	0.140	0.160	15	29.7	3.62	29.9
09/20/22	0.0755	<0.100	0.157	15.6	27.7		27.9
09/21/22	0.0335	<0.100	0.116	15.2	26		26.1
09/26/22	0.0781	0.131	0.209	14.9	27	3.52	27.2
09/27/22	0.0826	<0.100	0.124	15.1	28		28.1
09/28/22	0.0899	<0.100	0.154	16	27.5		27.7
10/03/22	0.159	<0.100	0.174	16.2	31.5	4.60	31.7
10/04/22	0.181	0.149	0.330	11.5	24.8		25.1
10/05/22	0.274	0.185	0.459	9.09	16.8		17.3
10/10/22	0.0194	<0.100	<0.100	14.7	31.5	3.60	31.5
10/11/22	0.0160	<0.100	<0.100	16.1	28.7		28.7
10/12/22	0.0161	<0.100	<0.100	15.8	26.2		26.2
10/17/22	0.0479	0.173	0.221	11.3	21.8	3.02	22
10/18/22	0.0365	0.108	0.145	13.8	23.3		23.4
10/19/22	0.0254	0.133	0.158	13.7	23.9		24.1
10/24/22	0.0929	0.199	0.292	12.1	20.9	2.72	21.2
10/25/22	0.0841	0.196	0.280	8.45	14.8		15.1
10/26/22	0.0892	0.211	0.300	10.3	18.7		19
10/31/22	0.0545	0.125	0.180	16.3	28.2	3.62	28.4
11/01/22	0.156	<0.100	0.233	16	28.2		28.4
11/02/22	0.228	<0.100	0.299	16.3	30		30.3
11/07/22	0.282	0.605	0.887	17.2	30	4.37	30.9
11/08/22	0.518	0.456	0.974	16.6	30.2		31.2
11/09/22	0.296	0.435	0.731	18.2	31.2		31.9
11/14/22	0.326	0.744	1.07	17.3	28.5	3.42	29.6
11/15/22	0.285	0.630	0.915	15.7	37.2		38.1
11/16/22	0.195	0.865	1.06	10.2	18.2		19.3
11/21/22	0.443	0.548	0.991	18.1	35	3.70	36
11/22/22	0.221	0.465	0.686	17.8	32.7		33.4
11/23/22	0.338	0.537	0.875	17.3	31.5		32.4
11/28/22	0.478	1.33	1.81	18.1	35.5	4.30	37.3
11/29/22	0.339	0.614	0.953	19.5	33.2		34.2
11/30/22	0.326	1.11	1.44	14.4	26.2		27.6
12/05/22	0.560	0.436	0.996	20.6	34.7	3.30	35.7
12/06/22	0.352	0.643	0.995	18.2	32.7		33.7
12/07/22	0.188	1.53	1.72	9.30	16.1		17.8
12/12/22	0.418	0.862	1.28	17.4	28.5	3.20	29.8
12/13/22	0.406	1.18	1.59	17.6	29.2		30.8
12/14/22	0.518	1.27	1.79	19.3	32.7		34.5
12/19/22	0.597	1.70	2.30	17.1	42.7	5.72	45
12/20/22	0.339	1.12	1.46	14.9	25.5		27
12/21/22	0.391	1.17	1.56	15.2	26.2		27.8
12/26/22	0.388	2.30	2.69	9.77	18.9	1.63	21.6
12/27/22	0.458	2.49	2.95	11.3	20.9		23.8
12/28/22	0.594	3.06	3.65	13.4	23.6		27.2

Field's Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate+Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
07/18/22	0.0185	<0.100	<0.100	2.62	3.86	2.92	3.86
07/19/22	0.0354	<0.100	0.135	1.23	2.49		2.62
07/20/22	0.0478	0.128	0.176	1.08	2.85		3.03
07/25/22	0.0262	0.113	0.139	2.35	4.23	3.90	4.37
07/26/22	0.0324	0.184	0.216	0.848	2.29		2.51
07/27/22	0.0232	<0.100	0.123	0.791	2.34		2.46
08/01/22	<0.010	0.276	0.276	0.567	2.38	2.42	2.66
08/02/22	0.0370	0.383	0.420	0.752	1.79		2.21
08/03/22	0.0282	<0.100	0.128	1.38	2.72		2.85
08/08/22	0.0682	0.164	0.232	2.03	3.19	3.08	3.42
08/09/22	0.0622	<0.100	<0.100	1.74	2.94		2.94
08/10/22	0.0772	<0.100	0.129	1.87	2.97		3.10
08/15/22	0.0245	0.278	0.303	2.37	3.44	1.95	3.74
08/16/22	0.0185	<0.100	0.106	1.58	2.54		2.65
08/17/22	0.0383	0.117	0.155	1.73	2.75		2.90
08/22/22	0.0274	<0.100	0.119	2.08	3.24	3.77	3.36
08/23/22	0.0281	0.654	0.682	1.46	2.15		2.83
08/24/22	0.0501	0.287	0.337	1.18	2.22		2.56
08/29/22	0.0406	<0.100	0.101	3.55	5.36	2.54	5.46
08/30/22	0.0481	<0.100	0.116	3.59	4.91		5.03
08/31/22	0.0493	<0.100	<0.100	2.53	3.94		3.94
09/05/22	0.0359	1.58	1.62	1.49	3.38	2.08	5
09/06/22	0.0770	3.69	3.77	0.851	1.57		5.34
09/07/22	0.312	1.83	2.14	2.25	3.38		5.52
09/12/22	0.239	1.18	1.42	1.67	2.88	1.08	4.30
09/13/22	0.131	1.96	2.09	0.736	1.82		3.91
09/14/22	0.0746	1.14	1.21	0.634	1.85		3.06
09/19/22	0.0297	<0.100	<0.100	2.38	3.54	2.67	3.54
09/20/22	0.0301	<0.100	0.124	1.42	2.46		2.58
09/21/22	0.0586	0.379	0.438	1.77	3.08		3.52
09/26/22	0.0302	0.494	0.524	0.840	2.07	2.13	2.59
09/27/22	0.0247	0.747	0.772	0.461	1.45		2.22
09/28/22	<0.010	1.28	1.28	<0.100	1.20		2.48
10/03/22	0.0185	1.11	1.13	0.228	1.39	2.26	2.52
10/04/22	0.0172	3.19	3.21	0.377	1.56		4.77
10/05/22	<0.010	3.42	3.42	<0.100	1.03		4.45
10/10/22	0.0216	0.151	0.173	0.998	2.03	2.60	2.20
10/11/22	<0.010	0.176	0.176	0.293	1.23		1.41
10/12/22	0.0379	0.323	0.361	1.41	2.48		2.84
10/17/22	0.0124	<0.100	0.106	1.28	2.20	1.89	2.31
10/18/22	<0.010	0.110	0.110	0.442	1.34		1.45
10/19/22	0.0231	<0.100	0.116	2.02	2.97		3.09
10/24/22	0.0557	1.40	1.46	1.09	1.90	1.59	3.36
10/25/22	0.0146	1.64	1.65	0.233	1.20		2.85
10/26/22	0.0459	1.44	1.49	0.599	1.70		3.19
10/31/22	0.0331	1.15	1.18	0.771	1.75	1.79	2.93
11/01/22	<0.010	1.59	1.59	<0.100	1.05		2.64
11/02/22	0.0102	1.54	1.55	0.306	1.35		2.90
11/07/22	0.0653	0.945	1.01	2.12	3.23	3.39	4.24
11/08/22	0.0730	0.399	0.472	2.63	3.74		4.21
11/09/22	0.0919	0.848	0.940	2.58	3.60		4.54
11/14/22	0.125	0.268	0.393	5.42	6.39	2.03	6.78
11/15/22	0.171	1.47	1.64	4.76	6.10		7.74
11/16/22	0.252	1.47	1.72	3.13	4.23		5.95
11/21/22	0.263	0.392	0.655	5.78	6.88	1.72	7.53
11/22/22	0.292	0.334	0.626	4.66	5.65		6.28
11/23/22	0.299	0.377	0.676	3.38	4.60		5.28
11/28/22	0.544	1.34	1.88	3.47	4.64	2.11	6.52
11/29/22	0.433	1.16	1.59	3.94	5.34		6.93
11/30/22	0.389	3.45	3.84	3.06	4.26		8.10
12/05/22	0.393	0.360	0.753	7.75	9.51	1.59	10.3
12/06/22	0.397	1.18	1.58	6.78	8.50		10.1
12/07/22	0.490	2.64	3.13	3.44	4.39		7.52
12/12/22	0.305	0.905	1.21	5.33	6.41	1.91	7.62
12/13/22	0.287	1.20	1.49	5.27	6.54		8.03
12/14/22	0.325	1.82	2.15	5.83	7.25		9.40
12/19/22	0.223	1.60	1.82	6.04	6.98	1.52	8.80
12/20/22	0.143	1.64	1.78	4.04	5.02		6.80
12/21/22	0.156	2.97	3.13	2.74	3.82		6.95
12/26/22	0.199	4.21	4.41	2.23	3.17	0.803	7.58
12/27/22	0.156	3.99	4.15	1.74	2.73		6.88
12/28/22	0.137	4.03	4.17	1.62	2.77		6.94

Table 13: Field's Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2022

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate + Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/03/22	0.110	<0.100	0.108	21.4	34.5		34.6
01/04/22	0.155	<0.100	0.122	22.2	35.2	3.77	35.3
01/05/22	0.0429	<0.100	<0.100	21.9	36.7		36.7
01/10/22	0.0935	0.204	0.298	18.4	31.2		31.5
01/11/22	0.0848	<0.100	<0.100	21.7	34.8	3.94	34.8
01/12/22	0.0953	<0.100	0.157	20.9	35.5		35.7
01/17/22	0.0436	0.198	0.242	16.3	28.7		28.9
01/18/22	0.0929	0.690	0.783	19	30.5	3.04	31.3
01/19/22	0.0929	0.522	0.615	20.3	30		30.6
01/24/22	0.158	0.210	0.368	19.7	40		40.4
01/25/22	0.0838	0.272	0.356	18.7	31.6	3.85	32
01/26/22	0.0832	0.247	0.330	19.4	33.5		33.8
01/31/22	0.0702	<0.100	0.147	21.8	37		37.1
02/01/22	0.0933	<0.100	0.158	23	38	4.26	38.2
02/02/22	0.0329	<0.100	0.110	22.5	36		36.1
02/07/22	0.124	0.735	0.859	17.8	27.5		28.4
02/08/22	0.0542	0.654	0.708	7.45	10.7	1.56	11.4
02/09/22	0.121	1.21	1.33	13.7	22.3		23.6
02/14/22	0.146	0.665	0.811	16.1	24.8		25.6
02/15/22	0.141	0.731	0.872	16.2	26.4	3.02	27.3
02/16/22	0.114	0.576	0.690	17	29.5		30.2
02/21/22	0.162	0.918	1.08	14.4	22.1		23.2
02/22/22	0.150	0.824	0.974	15.1	24.3	2.84	25.3
02/23/22	0.112	0.898	1.01	11.6	19.7		20.7
02/28/22	0.140	0.745	0.885	15.8	24.5		25.4
03/01/22	0.135	0.683	0.818	15.9	28	3.36	28.8
03/02/22	0.118	0.773	0.891	14.6	26		26.9
03/07/22	0.188	0.447	0.635	15.4	26.2		26.8
03/08/22	0.131	0.585	0.716	15.3	26.5	3.15	27.2
03/09/22	0.124	0.607	0.731	16.4	23.8		24.5
03/14/22	0.132	0.765	0.897	16	21		21.9
03/15/22	0.141	0.681	0.822	15.9	23.8	3	24.6
03/16/22	0.183	0.466	0.649	16.4	27		27.6
03/21/22	0.129	0.610	0.739	17.6	26.7		27.4
03/22/22	0.305	0.120	0.425	17.9	27.5	3.35	27.9
03/23/22	0.174	0.228	0.402	18.3	30.7		31.1
03/28/22	0.185	0.361	0.546	16.2	27.5		28
03/29/22	0.100	0.498	0.598	16.5	28.2	3.17	28.8
03/30/22	0.106	0.435	0.541	16.4	28.7		29.2
04/04/22	0.214	<0.100	0.265	18.3	31.2		31.5
04/05/22	0.193	<0.100	0.275	19.4	34	3.46	34.3
04/06/22	0.117	0.245	0.362	15.8	30		30.4
04/11/22	0.272	0.127	0.399	18.3	32.7		33.1
04/12/22	0.234	0.196	0.430	18.7	34.7	3.25	35.1
04/13/22	0.222	<0.100	0.228	18.2	28.7		28.9
04/18/22	0.175	<0.100	0.198	19.2	30.7		30.9
04/19/22	0.0817	0.509	0.591	13.1	26.2	3.09	26.8
04/20/22	0.112	0.822	0.934	14.5	23.4		24.3
04/25/22	0.193	<0.100	0.232	18.4	29.2		29.4
04/26/22	0.132	0.207	0.339	18.1	30.4	3.34	30.7
04/27/22	0.157	<0.100	0.202	16.9	24		24.2
05/02/22	0.0347	<0.100	<0.100	19.5	26.5		26.5
05/03/22	0.103	0.263	0.366	17.2	25	3.71	25.4
05/04/22	0.207	<0.100	0.244	18	23.4		23.6
05/09/22	0.0306	<0.100	<0.100	20.2	26.2		26.2
05/10/22	0.0288	<0.100	<0.100	20.1	31.6	4.06	31.6
05/11/22	0.0262	<0.100	<0.100	20.1	25.5		25.5
05/16/22	0.286	0.288	0.574	21.2	26.7		27.3
05/17/22	0.0280	<0.100	<0.100	21	28	4.50	28
05/18/22	0.0284	<0.100	<0.100	21.6	25.5		25.5
05/23/22	0.0229	<0.100	<0.100	21.4	26.5		26.5
05/24/22	0.0232	<0.100	<0.100	22.1	36.2	4.22	36.2
05/25/22	0.0261	<0.100	<0.100	23.2	27.7		27.7
05/30/22	0.0234	<0.100	<0.100	23.3	28		28
05/31/22	0.0217	<0.100	<0.100	22.6	35.2	3.91	35.2
06/01/22	0.0289	<0.100	<0.100	22.3	28		28
06/06/22	0.0250	<0.100	<0.100	23.2	27.7		27.7
06/07/22	0.0554	<0.100	<0.100	21.8	26.2	4.49	26.2
06/08/22	0.146	<0.100	0.129	18.2	25.7		25.8
06/13/22	0.240	<0.100	0.234	19.6	23.4		23.6
06/14/22	0.316	<0.100	0.293	20.8	33.6	4.09	33.9
06/15/22	0.494	<0.100	0.302	21.9	25		25.3
06/20/22	0.0245	<0.100	<0.100	23.4	38.7		38.7
06/21/22	0.598	<0.100	0.505	23.4	26	4.44	26.5
06/22/22	0.150	<0.100	<0.100	22.9	38.2		38.2
06/27/22	0.0280	<0.100	<0.100	22.9	27.7		27.7
06/28/22	0.106	<0.100	0.102	15.6	27.2	2.88	27.3
06/29/22	0.0257	<0.100	<0.100	21	25.8		25.8
07/04/22	0.0385	<0.100	<0.100	21.5	24.1		24.1
07/05/22	0.0354	<0.100	<0.100	23.3	25	3.52	25
07/06/22	0.0322	<0.100	<0.100	23.1	40		40
07/11/22	0.0282	<0.100	<0.100	23.7	37.5		37.5
07/12/22	0.0368	<0.100	<0.100	21.9	43.8	3.82	43.8
07/13/22	0.369	<0.100	0.185	19.8	25.2		25.4
07/18/22	0.0246	<0.100	<0.100	22	23.2		23.2
07/19/22	0.590	<0.100	0.407	18.6	21.5	4.06	21.9
07/20/22	0.0258	<0.100	<0.100	21.6	25.7		25.7
07/25/22	0.0251	<0.100	<0.100	23.8	45		45
07/26/22	0.0358	<0.100	<0.100	22.6	45.7	5.30	45.7
07/27/22	0.0387	<0.100	<0.100	20.5	42		42
08/01/22	0.0264	<0.100	<0.100	22.5	42.2		42.2
08/02/22	0.0331	<0.100	<0.100	24.2	45	4.70	45
08/03/22	0.0262	<0.100	<0.100	23.1	34.5		34.5
08/08/22	0.0311	<0.100	<0.100	23	30.5		30.5
08/09/22	0.0248	<0.100	<0.100	22.7	34.7	4.72	34.7
08/10/22	0.540	<0.100	0.316	18.2	38		38.3
08/15/22	0.0407	<0.100	<0.100	24.3	42		42
08/16/22	0.0203	<0.100	<0.100	25.1	45.5	5	45.5
08/17/22	0.0331	<0.100	<0.100	24.9	42.5		42.5
08/22/22	0.0290	<0.100	<0.100	27.3	43.5		43.5
08/23/22	0.120	<0.100	<0.100	17.3	28.7	3.07	28.7

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate + Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/03/22	0.0369	6.23	6.27	<0.100	1.47		7.74
01/04/22	0.0621	5.95	6.01	0.490	1.84	2.89	7.85
01/05/22	0.0501	5.07	5.12	0.501	1.98		7.10
01/10/22	0.0437	7.52	7.56	<0.100	1.39		8.95
01/11/22	0.0240	8.55	8.57	<0.100	1.30	3.15	9.87
01/12/22	0.0767	4.40	4.48	3.95	5.45		9.93
01/17/22	0.0912	3.51	3.60	0.828	2.49		6.09
01/18/22	0.120	4.01	4.13	0.644	1.73	2.24	5.86
01/19/22	0.0869	3.72	3.81	0.214	1.43		5.24
01/24/22	0.0495	8.17	8.22	<0.100	1.14		9.36
01/25/22	0.0435	9.59	9.63	0.132	1.60	4.60	11.2
01/26/22	0.0388	10.8	10.8	0.104	1.07		11.9
01/31/22	0.0472	8.17	8.22	0.211	1.28		9.50
02/01/22	0.0185	7.01	7.03	<0.100	1.20	3.30	8.23
02/02/22	0.0220	5.54	5.56	<0.100	1.31		6.87
02/07/22	0.0609	4.60	4.66	0.303	1.45		6.11
02/08/22	0.0748	3.82	3.89	1.62	2.68	1.46	6.57
02/09/22	0.0853	2.95	3.04	3	4.36		7.40
02/14/22	0.0206	5.14	5.16	<0.100	1.59		6.75
02/15/22	0.0349	5.43	5.46	0.167	2.01	2.08	7.47
02/16/22	0.0441	4.30	4.34	0.857	2.47		6.81
02/21/22	0.0285	5.41	5.44	<0.100	1.52		6.96
02/22/22	0.0340	4.39	4.42	0.159	1.52	1.86	5.94
02/23/22	0.0379	4.43	4.47	0.566	1.45		5.92
02/28/22	0.0235	3.94	3.96	<0.100	1.59		5.55
03/01/22	0.0401	4	4.04	0.176	2.96	2.59	7
03/02/22	0.0537	4.65	4.70	1.21	3.04		7.74
03/07/22	0.0340	5.42	5.45	<0.100	1.32		6.77
03/08/22	0.0315	4.54	4.57	<0.100	1.38	2.37	5.95
03/09/22	0.0481	4.60	4.65	0.450	1.84		6.49
03/14/22	0.0401	5.88	5.92	0.113	0.990		6.91
03/15/22	0.0388	5.02	5.06	<0.100	1.29	2.17	6.35
03/16/22	0.0300	3.91	3.94	<0.100	1.66		5.60
03/21/22	0.0316	5.81	5.84	<0.100	1.04		6.88
03/22/22	0.0261	6.56	6.59	0.157	1.29	2.26	7.88
03/23/22	0.0220	7.26	7.28	<0.100	1.45		8.73
03/28/22	0.0219	5.01	5.03	<0.100	1.10		6.13
03/29/22	0.0306	5.82	5.85	<0.100	1.39	2.30	7.24
03/30/22	0.0572	5.01	5.07	0.120	1.45		6.52
04/04/22	0.0558	1.39	1.45	0.143	1.52		2.97
04/05/22	0.0661	1.81	1.88	0.322	1.64	2.14	3.52
04/06/22	0.0749	1.61	1.68	0.624	2.02		3.70
04/11/22	0.0485	3.01	3.06	<0.100	1.29		4.35
04/12/22	0.0379	4.45	4.49	<0.100	1.45	1.82	5.94
04/13/22	0.0395	5.13	5.17	<0.100	1.20		6.37
04/18/22	0.0200	1.80	1.82	<0.100	1.07		2.89
04/19/22	0.0768	2.88	2.96	0.256	1.33	1.30	4.29
04/20/22	0.0276	3.92	3.95	<0.100	0.880		4.83
04/25/22	0.0311	2.37	2.40	<0.100	1.15		3.55
04/26/22	0.0627	2.09	2.15	0.664	1.79	2.20	3.94
04/27/22	0.0557	1.96	2.02	0.218	1.18		3.20
05/02/22	0.0599	1.61	1.67	0.269	1.34		3.01
05/03/22	0.0486	0.904	0.953	<0.100	1	1.97	1.95
05/04/22	0.0628	1.16	1.22	0.282	1.16		2.38
05/09/22	0.0386	1.48	1.52	<0.100	1.06		2.58
05/10/22	0.0497	1.47	1.52	0.121	1.21	2.59	2.73
05/11/22	0.0444	0.735	0.779	0.217	1.30		2.08
05/16/22	0.0371	0.552	0.589	0.110	1.04		1.63
05/17/22	0.0332	0.136	0.169	<0.100	1.10	2.33	1.27
05/18/22	0.0381	0.636	0.674	<0.100	0.968		1.64
05/23/22	0.0229	0.608	0.631	<0.100	1.08		1.71
05/24/22	0.0200	0.625	0.645	<0.100	1.07	2.28	1.71
05/25/22	0.0268	1.14	1.17	<0.100	1.02		2.19
05/30/22	0.0311	1.64	1.67	<0.100	1.11		2.78
05/31/22	0.0218	0.713	0.735	0.112	1	2.58	1.73
06/01/22	0.0188	0.759	0.778	<0.100	1.17		1.95
06/06/22	0.0165	0.799	0.816	<0.100	1.18		2
06/07/22	0.0206	0.799	0.820	<0.100	1.37	2.72	2.19
06/08/22	0.0211	0.767	0.788	<0.100	1.27		2.06
06/13/22	0.0203	0.568	0.588	0.507	1.52		2.11
06/14/22	0.0198	0.523	0.543	<0.100	1.13	1.78	1.67
06/15/22	0.0272	1.06	1.09	<0.100	1.11		2.20
06/20/22	0.0199	0.498	0.518	0.110	1.26		1.78
06/21/22	0.0163	0.394	0.410	0.168	1.32	2.23	1.73
06/22/22	0.0271	0.634	0.661	0.149	1.41		2.07
06/27/22	0.0126	0.226	0.239	0.459	2.05		2.29
06/28/22	0.0181	0.309	0.327	0.197	1.57	2.27	1.90
06/29/22	0.0216	0.251	0.273	0.149	1.52		1.79
07/04/22	0.0686	0.879	0.948	0.203	1.42		2.37
07/05/22	0.0566	0.973	1.03	0.202	1.40	3.01	2.43
07/06/22	0.0503	0.698	0.748	0.126	1.65		2.40
07/11/22	0.0441	0.457	0.501	0.189	1.55		2.05
07/12/22	0.0578	0.443	0.501	0.243	1.76	2.70	2.26
07/13/22	0.0323	0.125	0.157	0.194	1.38		1.54
07/18/22	0.0501	0.571	0.621	0.460	1.74		2.36
07/19/22	0.0466	0.552	0.599	0.297	1.61	4.80	2.21
07/20/22	0.0412	0.649	0.690	0.249	1.67		2.36
07/25/22	0.0587	0.932	0.991	0.289	1.65		2.64
07/26/22	0.0834	0.886	0.969	0.353	1.78	3.48	2.75
07/27/22	0.0788	1.28	1.36	0.117	1.58		2.94
08/01/22	0.0891	0.641	0.730	0.163	1.55		2.28
08/02/22	0.0308	0.196	0.227	0.119	1.58	2.87	1.81
08/03/22	0.0426	0.330	0.373	0.121	1.36		1.73
08/08/22	0.0761	0.855	0.931	0.119	1.56		2.49
08/09/22	0.0711	0.516	0.587	0.321	1.71	3.44	2.30
08/10/22	0.0372	0.133	0.170	0.123	1.47		1.64
08/15/22	0.0383	0.455	0.493	0.134	1.50		1.99
08/16/22	0.0371	0.535	0.572	0.193	1.61	3.09	2.18
08/17/22	0.0400	0.725	0.765	<0.100	1.78		2.54
08/22/22	0.0730	1.05	1.12	0.384	2.46		3.58
08/23/22	0.0688	0.894	0.963	0.288	1.89	2.65	2.85

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2022

Bucklin Point Influent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate + Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
08/24/22	0.170	<0.100	0.259	14.2	25.2		25.5
08/29/22	0.0282	<0.100	<0.100	24.9	44.5		44.5
08/30/22	<0.010	<0.100	<0.100	25	48	5.55	48
08/31/22	0.0375	<0.100	<0.100	22.3	39.5		39.5
09/05/22	0.0293	<0.100	<0.100	22.2	43.5		43.5
09/06/22	0.284	0.462	0.746	3.26	7.07	0.657	7.82
09/07/22	0.652	0.728	1.38	9.25	16.5		17.9
09/12/22	0.0386	<0.100	<0.100	15.5	30.2		30.2
09/13/22	0.0353	<0.100	<0.100	14.2	28.5	3.75	28.5
09/14/22	0.0477	<0.100	<0.100	15.5	28.5		28.5
09/19/22	0.0283	<0.100	<0.100	20.6	37.5		37.5
09/20/22	0.0217	<0.100	<0.100	20.8	37.7	3.82	37.7
09/21/22	0.0277	<0.100	<0.100	20.4	34.2		34.2
09/26/22	0.0436	<0.100	<0.100	17.1	32.7		32.7
09/27/22	0.0236	<0.100	<0.100	18.7	32.5	3.97	32.5
09/28/22	0.0290	<0.100	<0.100	18.8	32.7		32.7
10/03/22	0.0367	<0.100	<0.100	19.8	34.7		34.7
10/04/22	0.0329	<0.100	<0.100	19.8	35.2	4.37	35.2
10/05/22	0.251	0.141	0.392	14.9	27.7		28.1
10/10/22	0.338	<0.100	0.268	18.7	30.5		30.8
10/11/22	0.345	<0.100	0.274	18.3	32.2	3.67	32.5
10/12/22	0.452	<0.100	0.224	18.9	33.2		33.4
10/17/22	0.643	<0.100	0.601	16.5	28		28.6
10/18/22	0.0850	0.263	0.348	14.5	23.5	2.95	23.8
10/19/22	0.0419	<0.100	0.129	17.4	28.7		28.8
10/24/22	0.0317	<0.100	<0.100	18.4	31		31
10/25/22	0.101	0.429	0.530	15.5	27.7	3.15	28.2
10/26/22	0.0720	0.382	0.454	13.6	26		26.5
10/31/22	0.0172	<0.100	0.104	18.9	31.5		31.6
11/01/22	0.0139	<0.100	<0.100	19.1	32.5	3.85	32.5
11/02/22	0.0260	<0.100	<0.100	19.2	33.5		33.5
11/07/22	0.0286	<0.100	<0.100	20.3	33.7		33.7
11/08/22	0.0247	<0.100	0.119	19.2	33.2	4.02	33.3
11/09/22	0.0318	<0.100	0.123	21.2	44.7		44.8
11/14/22	0.338	<0.100	0.307	20.3	33		33.3
11/15/22	0.254	<0.100	0.212	21.4	33.5	3.87	33.7
11/16/22	0.279	0.196	0.475	13.4	26		26.5
11/21/22	0.334	<0.100	0.320	22.4	35.5		35.8
11/22/22	0.252	0.131	0.383	21.6	39.5	4.07	39.9
11/23/22	0.0284	<0.100	<0.100	22	41.2		41.2
11/28/22	0.0499	0.340	0.390	17	30.5		30.9
11/29/22	0.0802	0.217	0.297	22.2	36.7	3.55	37
11/30/22	0.0518	<0.100	<0.100	22.9	35.7		35.7
12/05/22	0.0975	0.201	0.299	21	34		34.3
12/06/22	0.0591	0.193	0.252	20.3	33	3.52	33.3
12/07/22	0.0304	0.245	0.275	13	22.9		23.2
12/12/22	0.104	0.138	0.242	19.6	31		31.2
12/13/22	0.0738	0.249	0.323	21.7	34.2	3.75	34.5
12/14/22	0.0624	0.186	0.248	19.6	33		33.2
12/19/22	0.171	0.476	0.647	16.9	28.5		29.1
12/20/22	0.150	0.560	0.710	17.2	28.5	2.97	29.2
12/21/22	0.106	0.380	0.486	18.6	32.5		33
12/26/22	0.246	0.774	1.02	15.7	26.7		27.7
12/27/22	0.190	0.705	0.895	15.6	26	2.60	26.9
12/28/22	0.151	0.669	0.820	16	26.2		27

Bucklin Point Effluent Nutrients

Date	Nitrite $N\text{-}NO_2$ ppm	Nitrate $N\text{-}NO_3$ ppm	Nitrate + Nitrite $N\text{-}NO_3NO_2$ ppm	Ammonia $N\text{-}NH_3$ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
08/24/22	0.0729	1.35	1.42	0.152	1.33		2.75
08/29/22	0.0992	3.52	3.62	<0.100	2.07		5.69
08/30/22	0.0987	4.11	4.21	0.159	3.04	4.72	7.25
08/31/22	0.0910	2.40	2.49	0.131	2.24		4.73
09/05/22	0.0859	1.30	1.39	0.735	2.49		3.88
09/06/22	0.0867	2.09	2.18	0.139	1.60	1.21	3.78
09/07/22	0.112	2.57	2.68	0.295	1.72		4.40
09/12/22	0.0465	0.928	0.975	<0.100	1.33		2.30
09/13/22	0.0529	1.15	1.20	0.189	1.49	1.77	2.69
09/14/22	0.0491	1.07	1.12	<0.100	1.18		2.30
09/19/22	0.0404	0.874	0.914	<0.100	1.61		2.52
09/20/22	0.0457	1.72	1.77	<0.100	2	1.53	3.77
09/21/22	0.0509	2.01	2.06	<0.100	1.66		3.72
09/26/22	0.0444	0.669	0.713	<0.100	1.05		1.76
09/27/22	0.0572	1.18	1.24	<0.100	1.18	1.59	2.42
09/28/22	0.0566	1.67	1.73	<0.100	1.10		2.83
10/03/22	0.0543	1.17	1.22	<0.100	1.22		2.44
10/04/22	0.0618	1.41	1.47	0.175	1.58	1.96	3.05
10/05/22	0.0646	2.55	2.61	0.190	1.38		3.99
10/10/22	0.0606	1.09	1.15	<0.100	1.16		2.31
10/11/22	0.0666	1.45	1.52	<0.100	1.17	1.61	2.69
10/12/22	0.0672	1.99	2.06	<0.100	1.33		3.39
10/17/22	0.0589	1.31	1.37	0.158	1.27		2.64
10/18/22	0.0479	1.83	1.88	<0.100	1	1.42	2.88
10/19/22	0.0369	1.98	2.02	<0.100	1.07		3.09
10/24/22	0.0417	1.39	1.43	0.176	1.31		2.74
10/25/22	0.0726	1.64	1.71	1.01	2.68	1.78	4.39
10/26/22	0.0763	1.67	1.75	0.818	1.86		3.61
10/31/22	0.0346	1.57	1.60	0.232	1.15		2.75
11/01/22	0.0290	1.52	1.55	0.148	1.25	1.35	2.80
11/02/22	0.0373	1.58	1.62	<0.100	1.59		3.21
11/07/22	0.0347	1.53	1.56	<0.100	1.19		2.75
11/08/22	0.0455	1.89	1.94	<0.100	1.73	1.58	3.67
11/09/22	0.0350	1.48	1.52	<0.100	3.76		5.28
11/14/22	0.0585	0.713	0.772	0.904	2.36		3.13
11/15/22	0.0597	1.05	1.11	1.63	3.46	0.935	4.57
11/16/22	0.0483	3.55	3.60	1.86	4.12		7.72
11/21/22	0.0628	1.81	1.87	0.240	1.49		3.36
11/22/22	0.0628	1.73	1.79	0.159	1.21	1.46	3
11/23/22	0.0553	2.15	2.21	0.122	1.30		3.51
11/28/22	0.0774	2.59	2.67	0.425	1.74		4.41
11/29/22	0.0591	3.82	3.88	<0.100	1.30	1.19	5.18
11/30/22	0.0472	4.34	4.39	0.504	2.07		6.46
12/05/22	0.0643	2.13	2.19	0.637	1.75		3.94
12/06/22	0.0691	3.01	3.08	0.791	2.02	2.47	5.10
12/07/22	0.0278	3.19	3.22	<0.100	0.881		4.10
12/12/22	0.0435	1.69	1.73	0.315	1.38		3.11
12/13/22	0.0530	3.08	3.13	0.436	1.46	2.13	4.59
12/14/22	0.0475	4.05	4.10	0.371	1.46		5.56
12/19/22	0.0631	1.09	1.15	0.367	1.48		2.63
12/20/22	0.106	2.78	2.89	0.565	1.86	1.37	4.75
12/21/22	0.0640	3.13	3.19	0.387	1.63		4.82
12/26/22	0.0689	1.79	1.86	0.441	1.58		3.44
12/27/22	0.0833	2.97	3.05	0.176	1.33	1.11	4.38
12/28/22	0.119	3.41	3.53	1.22	2.60		6.13

Table 14: Bucklin Point Influent and Effluent Nutrients

Oil and Grease Data 2021
Field's Point and Bucklin Point

Field's Point Oil and Grease 2022

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/4/2022	34.13	34.13	20.5	<4.000
2/8/2022	65.49	63.62	12.57	<4.000
3/8/2022	42.96	42.96	18.24	1.727
4/5/2022	38.55	38.55	16.12	<4.000
5/3/2022	38.60	38.60	17.82	<4.000
6/7/2022	34.93	34.93	30.61	<4.000
7/12/2022	36.57	36.57	35.49	<4.000
8/2/2022	28.37	28.37	30.82	<4.000
9/13/2022	60.08	60.08	12.19	<4.000
10/4/2022	50.84	50.84	13.01	<4.000
11/8/2022	34.30	34.30	21.44	<4.000
12/6/2022	45.54	45.54	18.85	<4.000

Bucklin Point Oil and Grease 2022

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/4/2022	14.59	14.59	23.07	<4.00
2/8/2022	48.20	33.51	8.58	<4.00
3/8/2022	20.20	20.20	25.65	<4.00
4/5/2022	17.38	17.38	22.29	<4.00
5/3/2022	21.95	21.95	33.88	<4.00
6/7/2022	13.48	13.48	35.79	<4.00
7/12/2022	13.08	13.08	32.83	<4.00
8/2/2022	10.57	10.57	29.32	<4.00
9/13/2022	23.36	21.85	20.53	<4.00
10/4/2022	24.03	20.60	26.19	<4.00
11/8/2022	12.63	12.63	24.7	<4.00
12/6/2022	15.17	15.17	25.89	<4.00

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

Field's Point Dissolved Metals 2022

all analyses 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
01/04/2022	0.02046	0.02	3.817	0.30	2.546	0.30	<3	3.00	13.15	0.30	<0.200	0.20	22.14	5.00	<50	50.00	62.07	5.00
02/08/2022	0.02546	0.02	1.043	0.30	2.514	0.30	<0.900	0.90	7.808	0.30	<0.060	0.06	28.43	5.00	<15	15.00	58.29	5.00
03/08/2022	0.02351	0.02	0.8690	0.30	2.363	0.30	0.3400	0.30	13.25	0.30	<0.020	0.02	20.65	5.00	<5	5.00	63.45	5.00
04/05/2022	<0.020	0.02	1.307	0.30	1.949	0.30	<0.300	0.30	8.195	0.30	<0.020	0.02	21.45	5.00	<5	5.00	61.41	5.00
05/03/2022	<0.020	0.02	0.8531	0.30	2.083	0.30	<0.300	0.30	7.766	0.30	<0.020	0.02	27.51	5.00	<5	5.00	53.52	5.00
06/07/2022	<0.020	0.02	1.100	0.30	3.190	0.30	<0.300	0.30	10.57	0.30	<0.020	0.02	18.51	5.00	<5	5.00	55.92	5.00
07/12/2022	<0.020	0.02	1.292	0.30	1.879	0.30	<0.300	0.30	7.074	0.30	<0.020	0.02	17.06	5.00	<5	5.00	58.57	5.00
08/02/2022	<0.020	0.02	1.124	0.30	2.284	0.30	<0.300	0.30	9.723	0.30	<0.020	0.02	23.24	5.00	<5	5.00	54.01	5.00
09/13/2022	<0.020	0.02	1.164	0.30	1.804	0.30	<0.300	0.30	10.70	0.30	<0.020	0.02	18.93	5.00	<5	5.00	40.30	5.00
10/04/2022	<0.020	0.02	0.9521	0.30	1.660	0.30	<0.300	0.30	5.186	0.30	<0.020	0.02	17.04	5.00	<5	5.00	41.10	5.00
11/08/2022	<0.020	0.02	1.304	0.30	1.998	0.30	<0.300	0.30	8.631	0.30	<0.020	0.02	23.64	5.00	<5	5.00	55.02	5.00
12/06/2022	<0.020	0.02	1.842	0.30	2.319	0.30	<0.300	0.30	9.543	0.30	<0.020	0.02	23	5.00	<5	5.00	62.50	5.00

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly mean concentration	<0.02	1.39	2.22	<0.58	9.30	<0.04	21.80	<9.58	55.51
yearly median concentration	<0.02	1.14	2.18	<0.30	9.09	<0.02	21.80	<5.00	57.11
yearly minimum concentration	<0.020	0.8531	1.660	<0.300	5.186	<0.020	17.04	<5	40.30
yearly maximum concentration	0.02546	3.817	3.190	<3	13.25	<0.200	28.43	<50	63.45

Table 16: Field's Point Effluent Dissolved Metals

Bucklin Point Dissolved Metals 2022

all analyses 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
01/04/2022	<0.020	0.02	0.3538	0.30	3.200	0.30	<0.300	0.30	10.21	0.30	0.03915	0.02	31.82	5.00	<50	50.00	41.81	5.00
02/08/2022	<0.020	0.02	0.4159	0.30	1.979	0.30	<0.300	0.30	5.832	0.30	0.02037	0.02	31.62	5.00	9.724	5.00	34.14	5.00
03/08/2022	0.03318	0.02	0.6889	0.30	3.181	0.30	<0.300	0.30	8.390	0.30	0.03396	0.02	40.15	5.00	11.34	5.00	59.86	5.00
04/05/2022	0.03086	0.02	2.497	0.30	2.535	0.30	0.3210	0.30	6.761	0.30	0.02787	0.02	37.89	5.00	9.030	5.00	48.14	5.00
05/03/2022	<0.020	0.02	0.6532	0.30	2.293	0.30	<0.300	0.30	4.593	0.30	<0.020	0.02	33.82	5.00	9.058	5.00	51.72	5.00
06/07/2022	0.02674	0.02	0.6701	0.30	3.432	0.30	<0.300	0.30	7.061	0.30	<0.020	0.02	44.71	5.00	8.320	5.00	61.06	5.00
07/12/2022	0.02900	0.02	0.9031	0.30	4.718	0.30	0.3738	0.30	8.159	0.30	0.02425	0.02	46.32	5.00	11.12	5.00	46.03	5.00
08/02/2022	<0.020	0.02	1.188	0.30	4.311	0.30	0.3901	0.30	7.079	0.30	0.03547	0.02	46.39	5.00	11.57	5.00	38.58	5.00
09/13/2022	0.02395	0.02	0.6688	0.30	3.658	0.30	<0.300	0.30	6.952	0.30	<0.020	0.02	32.30	5.00	6.747	5.00	37.78	5.00
10/04/2022	0.03407	0.02	1.164	0.30	4.157	0.30	<0.300	0.30	5.459	0.30	0.02512	0.02	37.38	5.00	10.64	5.00	38.57	5.00
11/08/2022	0.02800	0.02	1.040	0.30	3.181	0.30	<0.300	0.30	6.062	0.30	0.03565	0.02	32.23	5.00	15.07	5.00	42.91	5.00
12/06/2022	<0.020	0.02	2.643	0.30	2.527	0.30	0.3251	0.30	6.871	0.30	<0.020	0.02	30.98	5.00	13.68	5.00	36.45	5.00

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average concentration	<0.025	1.07	3.26	<0.32	6.95	<0.03	37.13	<13.86	44.75
yearly median concentration	0.025	0.80	3.19	<0.30	6.91	0.02	35.60	10.18	42.36
yearly minimum concentration	<0.020	0.3538	1.979	<0.300	4.593	<0.020	30.98	6.747	34.14
yearly maximum concentration	0.03407	2.643	4.718	0.3901	10.21	0.03915	46.39	15.07	61.06

Table 17: Bucklin Point Effluent Dissolved Metals

Field's Point Bioassay Data 2022

Field's Point WWTF Bioassay Results - 2022 *Americamysis bahia*						
Acute	**1st Quarter, 2022**			**2nd Quarter, 2022**		
Test	**Result (%)**	**(%)**	**Pass Y/N**	**Result (%)**	**(%)**	**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, 2022			**4th Quarter, 2022**		
Test	**Result (%)**	**(%)**	**Pass Y/N**	**Result (%)**	**(%)**	**Pass Y/N**
LC 50	>100	>100	Y	>100	>100	N
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
NC	Not Calculated

Field's Point WWTF Bioassay Results - 2022 *Arbacia punctulata*						
Chronic	**1st Quarter, 2022**			**2nd Quarter, 2022**		
Test	**Result (%)**	**Permit Limit**	**Pass Y/N**	**Result (%)**	**Permit Limit**	**Pass Y/N**
C-NOEC	50	Required monitoring: No Limit	N/A	100	Required monitoring: No Limit	N/A
	3rd Quarter, 2022			**4th Quarter, 2022**		
Test	**Result (%)**	**Permit Limit**	**Pass Y/N**	**Result (%)**	**Permit Limit**	**Pass Y/N**
C-NOEC	100	Required monitoring: No Limit	N/A	50	Required monitoring: No Limit	N/A

* 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. punctulata eggs. Exposure rate is 60 minutes

Table 18: Field's Point Bioassay Data

Bucklin Point WWTF Bioassay Results - 2022 ***Americamysis bahia***						
Acute	**1st Quarter, 2022**			**2nd Quarter, 2022**		
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, 2022			**4th Quarter, 2022**		
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 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

NC Not Calculated

Bucklin Point WWTF Bioassay Results - 2022 ***Arbacia punctulata***						
Chronic	**1st Quarter, 2022**			**2nd Quarter, 2022**		
Test	**Result (%)**	**Permit Limit (%)**	**Pass Y/N**	**Result (%)**	**Permit Limit (%)**	**Pass Y/N**
C-NOEC	100	50	Y	100	50	Y
	3rd Quarter, 2022			**4th Quarter, 2022**		
Test	**Result (%)**	**Permit Limit (%)**	**Pass Y/N**	**Result (%)**	**Permit Limit (%)**	**Pass Y/N**
C-NOEC	100	50	Y	100	50	Y

* NOTE - % indicates Percent Effluent

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

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

Field's Point Metals in Final Sludge, 2022

Field's Point sludge monthly mean concentration (mg/kg)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
January	4.01	2.02	3.03	22.40	142.50	39.70	1.09	10.09	25.85	3.80	5.04	352.50	5.73
February	5.18	2.02	3.03	25.70	151.00	46.40	0.40	10.09	26.00	4.11	5.05	368.00	11.57
March	6.00	1.70	2.55	29.30	148.50	75.60	0.36	8.51	24.55	2.92	4.26	390.50	11.40
April	5.74	1.35	2.06	27.85	162.00	68.00	1.40	6.79	25.65	4.46	3.36	386.00	6.61
May	4.24	1.29	1.93	20.05	155.50	41.70	1.82	6.59	20.20	5.35	3.21	340.50	2.98
June	5.01	1.11	1.83	25.15	191.00	69.15	1.69	7.42	27.35	5.92	3.13	462.00	4.02
July	4.84	1.27	1.91	24.80	188.50	78.00	1.09	8.73	32.50	4.59	3.18	497.00	4.46
August	5.15	1.60	2.40	30.90	221.50	100.05	0.37	10.86	36.45	4.96	3.99	573.50	3.77
September	4.86	1.38	2.52	31.60	220.50	79.30	0.53	7.89	33.95	4.33	3.46	529.50	3.33
October	5.93	1.29	2.52	37.95	230.00	153.00	0.91	8.46	40.50	2.98	3.56	569.00	3.86
November	5.06	1.50	2.24	32.75	197.50	153.70	0.45	8.50	35.20	3.43	3.79	487.50	3.07
December	4.85	1.70	2.54	28.15	188.00	64.35	0.20	8.48	30.30	3.49	4.24	367.00	2.69

Field's Point sludge monthly total load (lbs/month)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide	Sludge
January	4.90	2.47	3.70	27.39	174.23	48.54	1.34	12.33	31.61	4.64	6.17	430.99	7.00	1,222,660
February	5.82	2.27	3.40	28.87	169.65	52.13	0.44	11.34	29.21	4.61	5.67	413.44	12.99	1,123,480
March	9.85	2.80	4.20	48.15	244.03	124.23	0.60	13.99	40.34	4.80	6.99	641.71	18.73	1,643,300
April	8.51	2.00	3.06	41.34	240.48	100.94	2.08	10.08	38.08	6.61	4.99	573.00	9.81	1,484,460
May	5.92	1.80	2.70	28.02	217.31	58.28	2.54	9.22	28.23	7.48	4.49	475.85	4.16	1,397,500
June	6.27	1.39	2.29	31.46	238.94	86.51	2.11	9.28	34.21	7.40	3.91	577.95	5.03	1,250,980
July	5.65	1.49	2.23	28.98	220.25	91.14	1.27	10.20	37.97	5.36	3.72	580.72	5.21	1,168,460
August	5.91	1.83	2.75	35.48	254.34	114.88	0.43	12.47	41.85	5.69	4.58	658.53	4.33	1,148,260
September	5.57	1.59	2.89	36.25	252.93	90.96	0.60	9.05	38.94	4.97	3.96	607.38	3.82	1,147,080
October	8.84	1.92	3.76	56.63	343.21	228.31	1.36	12.62	60.43	4.45	5.30	849.07	5.76	1,492,220
November	8.08	2.39	3.59	52.35	315.72	245.70	0.72	13.58	56.27	5.48	6.05	779.32	4.90	1,598,600
December	6.66	2.33	3.49	38.65	258.14	88.36	0.27	11.64	41.60	4.79	5.82	503.93	3.69	1,373,100
Yearly Total (lbs/year):	**81.99**	**24.26**	**38.05**	**453.58**	**2,929.24**	**1,329.99**	**13.77**	**135.79**	**478.76**	**66.26**	**61.66**	**7,091.89**	**85.43**	**16,050,100**

Table 20: Field's Point Sludge Analysis

Field's Point Metals in Final Sludge, 2022

Date	Sludge Dry Tons	Arsenic mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Zinc mg/kg	Cyanide mg/kg
01/04/2022	27.96	3.90	<1.934	<2.902	22.6	143	44	<1.72	<9.672	26.2	3.65	<4.836	363	3.99
01/25/2022	25.79	4.12	<2.100	<3.150	22.2	142	35.4	<0.469	<10.500	25.5	3.94	<5.250	342	7.46
02/01/2022	30.99	4.45	<2.093	<3.139	22.8	156	33.6	<0.476	<10.464	29.4	4.81	<5.232	380	9.73
02/22/2022	16.57	5.91	<1.944	<2.915	28.6	146	59.2	0.314	<9.718	22.6	3.40	<4.859	356	13.4
03/01/2022	22.93	6.03	<1.886	<2.829	28	153	54	0.303	<9.431	25	3.30	<4.716	364	11.4
03/29/2022	15.84	5.96	<1.518	<2.277	30.6	144	97.2	<0.425	<7.591	24.1	2.54	<3.795	417	11.4
04/05/2022	38.80	5.38	<1.221	<1.832	28.2	142	80.1	<0.499	<6.106	24.4	2.45	<3.053	392	9.33
04/26/2022	21.48	6.09	<1.469	2.29	27.5	182	55.9	<2.31	7.48	26.9	6.46	<3.674	380	<3.89
05/03/2022	25.63	4.47	<1.132	1.71	20.3	148	45	<1.74	6	20.8	4.79	<2.831	332	<3.95
05/24/2022	21.89	4	<1.438	<2.157	19.8	163	38.4	<1.90	<7.189	19.6	5.91	<3.595	349	<2
06/01/2022	22.99	4.68	<1.033	1.68	21.1	185	38.3	<1.66	7.01	21.8	7.24	<2.583	412	<1.79
06/28/2022	34.18	5.34	<1.182	1.98	29.2	197	100	<1.71	7.82	32.9	4.59	3.67	512	6.25
07/05/2022	19.17	5.01	<1.274	<1.911	25.3	207	62.2	<1.90	8.55	28.5	5.34	<3.185	475	4.96
07/26/2022	24.45	4.66	<1.271	<1.907	24.3	170	93.8	0.276	8.91	36.5	3.83	<3.178	519	<3.96
08/02/2022	26.80	4.65	<1.460	<2.190	22.1	161	80.1	0.274	8.32	31.7	4.36	<3.649	479	<3.42
08/30/2022	18.26	5.64	<1.734	<2.601	39.7	282	120	<0.470	13.4	41.2	5.55	<4.335	668	<4.12
09/06/2022	20.56	4.33	<1.388	<2.081	31.8	232	83.1	0.537	8.90	32.7	5.05	<3.469	554	<4.09
09/27/2022	25.98	5.39	<1.377	2.95	31.4	209	75.5	0.513	<6.883	35.2	3.61	<3.441	505	2.57
10/04/2022	23.28	5.77	<1.504	3.04	34.9	241	122	0.891	8.49	39.8	3.37	<3.760	565	3.93
10/25/2022	41.48	6.08	<1.071	2	41	219	184	0.928	8.42	41.2	2.59	3.35	573	3.79
11/01/2022	46.47	5.89	<1.252	<1.877	40.6	206	229	0.643	8.29	39.4	3.27	3.22	584	3.05
11/29/2022	36.12	4.22	<1.740	<2.610	24.9	189	78.4	0.26	<8.700	31	3.58	<4.350	391	3.08
12/06/2022	14.91	4.80	<1.541	<2.311	28.4	179	67.8	0.20	<7.705	31.3	3.61	<3.852	384	4.04
12/27/2022	35.45	4.90	<1.850	<2.776	27.9	197	60.9	<0.193	<9.252	29.3	3.36	<4.626	350	1.33

Table 21: Field's Point Sludge Samples

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

Year	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
1994			202.7	2628.1	13386.0	4297.2	74.0		4626.2		1113.9	15683.7	281.0
1995			203.5	2824.5	14962.8	3700.2	55.0		4202.3		818.1	13071.5	189.3
1996	132.3	4.9	186.4	3473.3	12461.8	3389.6	47.8	205.1	3860.3		757.7	11615.1	239.8
1997			189.7	3654.7	13674.5	4122.1	53.9		3400.3		867.9	12323.5	189.6
1998	44.6		208.7	2655.5	11207.8	2879.9	36.9		2188.6		698.3	10101.5	127.1
1999	35.4		233.3	2315.0	13490.2	2516.8	28.8	164.7	1887.7	74.9	677.4	11549.1	90.1
2000	42.4	32.3	352.8	1747.7	15019.4	2544.9	12.0	84.1	1191.9	23.5	384.0	6482.0	49.6
2001	88.1	16.9	205.7	2379.0	15120.0	2611.1	26.3	204.6	2008.3	282.0	634.9	13297.6	111.0
2002	84.9	7.6	154.5	1757.0	15758.0	3156.0	27.9	190.1	1555.0	190.4	651.5	15148.0	79.6
2003	53.6	9.7	183.8	1976.2	12993.4	3008.8	28.4	98.1	1485.4	118.2	466.3	12773.9	60.8
2004	43.4	12.1	221.0	3774.2	20910.1	2608.5	23.8	103.2	2472.9	163.4	501.2	14645.1	95.9
2005	79.5	13.9	250.7	4970.6	30477.9	2867.9	29.6	190.3	3092.9	167.2	478.5	20592.3	78.6
2006	85.2	11.7	131.8	1448.6	5889.2	2616.6	16.7	193.4	1181.6	136.4	452.8	12290.6	56.9
2007	18.5	12.2	64.5	612.1	3862.6	1033.7	6.8	157.1	526.2	41.8	173.4	6833.0	67.5
2008	32.9	48.3	66.7	856.5	5426.0	1793.2	74.0	294.3	841.1	39.2	195.7	9914.5	113.8
2009	38.0	33.0	82.5	919.6	4792.0	1771.9	8.4	300.2	769.1	26.5	132.2	10442.8	121.1
2010	44.8	27.6	73.5	928.9	6111.0	1770.2	60.6	276.2	874.0	33.0	151.0	9897.7	94.6
2011	40.8	26.1	123.7	1156.0	3795.4	1613.2	7.5	261.0	790.7	43.0	115.9	9026.6	71.5
2012	33.8	28.5	78.3	995.0	3892.6	1269.2	8.1	285.5	818.7	114.5	185.3	8760.1	199.1
2013	75.1	3.6	48.0	1006.5	4202.2	1454.2	8.0	99.9	757.9	168.3	189.9	8772.9	83.2
2014	82.3	3.9	41.3	847.6	3881.0	1155.1	6.7	100.7	710.8	181.8	132.3	7470.7	59.8
2015	86.3	2.4	41.3	781.1	3608.5	969.9	6.3	96.3	638.5	150.9	103.2	8008.2	69.3
2016	67.2	2.1	22.2	713.9	3385.4	1048.0	6.8	96.7	604.5	113.7	75.6	7542.4	51.3
2017	70.1	3.0	28.3	965.8	3838.7	1126.3	6.4	92.4	662.0	118.3	77.1	8073.0	38.4
2018	83.1	32.2	49.8	713.9	3828.7	1320.0	6.8	163.3	659.4	103.0	112.2	7833.8	142.8
2019	91.8	31.9	47.9	587.8	3641.3	1324.9	11.4	159.6	676.1	98.0	84.8	7917.0	51.3
2020	68.3	28.6	42.9	441.8	3331.5	1097.1	5.2	148.6	456.2	80.6	81.8	6636.2	43.5
2021	79.7	33.3	50.0	485.0	3542.0	926.2	12.6	171.0	480.0	84.0	83.4	6820.5	60.1
2022	82.0	24.3	38.1	453.6	2929.2	1330.0	13.8	135.8	478.8	66.3	61.7	7091.9	85.4

*Laboratory calculation methodology was changed in 2018; 2017 data and earlier were slightly underestimated by previous method.

Table 22: Field's Point Sludge Summary

Bucklin Point Metals Loading in Final Sludge, 2022

Bucklin Point sludge monthly mean concentrations (mg/kg)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
January	4.17	2.43	3.64	96.05	601.00	65.05	1.36	13.90	63.80	5.14	27.70	748.00	4.53
February	4.28	2.45	3.67	91.30	621.50	65.30	0.56	13.95	68.85	5.01	33.95	766.50	5.36
March	4.87	2.06	3.09	89.25	597.00	75.75	0.72	13.10	81.50	4.49	34.95	723.50	14.80
April	4.69	1.64	2.58	139.50	576.50	77.70	1.37	11.50	81.70	5.30	29.30	648.50	14.07
May	4.35	1.55	2.50	134.00	567.50	69.40	2.36	12.00	73.10	7.21	23.15	665.00	6.37
June	3.67	1.51	2.31	85.05	522.00	59.20	2.50	12.07	55.85	6.14	20.90	670.50	5.12
July	3.93	1.61	2.72	70.50	558.00	66.20	1.30	13.75	47.90	6.02	22.20	741.00	6.13
August	4.16	1.87	2.81	77.00	642.00	79.05	0.61	17.65	54.40	6.75	24.15	886.50	4.10
September	4.64	1.37	3.16	81.80	700.50	94.95	0.86	16.35	71.15	5.73	22.90	975.50	4.87
October	4.66	1.41	3.00	77.35	687.50	86.40	0.85	16.30	79.55	4.73	22.35	925.00	5.20
November	5.29	1.55	2.32	82.40	641.00	74.90	0.61	17.40	90.75	5.68	23.50	804.50	5.07
December	4.97	1.69	2.54	59.45	453.00	43.45	0.67	10.87	62.75	3.07	13.45	463.00	3.55

Bucklin Point sludge monthly total load (lbs/month)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide	Sludge
January	1.16	0.67	1.01	26.71	167.10	18.09	0.38	3.86	17.74	1.43	7.70	207.97	1.26	278,040
February	1.30	0.74	1.12	27.78	189.09	19.87	0.17	4.24	20.95	1.52	10.33	233.20	1.63	304,240
March	2.35	0.99	1.49	42.98	287.49	36.48	0.35	6.31	39.25	2.16	16.83	348.41	7.13	481,560
April	1.93	0.68	1.06	57.47	237.52	32.01	0.57	4.74	33.66	2.18	12.07	267.18	5.80	412,000
May	1.24	0.44	0.71	38.28	162.11	19.82	0.67	3.43	20.88	2.06	6.61	189.96	1.82	285,660
June	1.04	0.43	0.66	24.23	148.70	16.86	0.71	3.44	15.91	1.75	5.95	191.00	1.46	284,860
July	1.35	0.55	0.93	24.15	191.16	22.68	0.45	4.71	16.41	2.06	7.61	253.85	2.10	342,580
August	1.37	0.62	0.93	25.47	212.34	26.14	0.20	5.84	17.99	2.23	7.99	293.20	1.35	330,740
September	1.34	0.40	0.91	23.63	202.32	27.42	0.25	4.72	20.55	1.65	6.61	281.74	1.41	288,820
October	1.53	0.46	0.98	25.34	225.25	28.31	0.28	5.34	26.06	1.55	7.32	303.07	1.70	327,640
November	1.91	0.56	0.84	29.79	231.72	27.08	0.22	6.29	32.81	2.05	8.50	290.83	1.83	361,500
December	2.23	0.76	1.14	26.73	203.66	19.53	0.30	4.89	28.21	1.38	6.05	208.16	1.60	449,580
Annual Total (lbs/year):	**18.75**	**7.31**	**11.79**	**372.54**	**2,458.45**	**294.30**	**4.54**	**57.81**	**290.42**	**22.03**	**103.57**	**3,068.57**	**29.08**	**4,147,220**

Table 23: Bucklin Point Sludge Analysis

Bucklin Point Metals in Final Sludge, 2022

Date	Sludge Dry Tons	Arsenic mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Zinc mg/kg	Cyanide mg/kg
01/04/2022	6.57	4.24	<2.391	<3.586	94.2	574	64.5	<2.15	13.3	62.2	5.24	26.4	710	3.87
01/25/2022	6.21	4.09	<2.462	<3.693	97.9	628	65.6	0.575	14.5	65.4	5.04	29	786	5.19
02/01/2022		4.09	<2.511	<3.767	88.1	597	62.4	0.649	13.8	61.5	5.28	29.4	749	4.34
02/22/2022	5.74	4.46	<2.383	<3.575	94.5	646	68.2	0.467	14.1	76.2	4.74	38.5	784	6.37
03/01/2022	6.72	4.77	<2.367	<3.551	93.6	655	70.8	0.684	14.3	78.8	4.67	38.7	790	10.6
03/29/2022	7.26	4.97	<1.753	<2.629	84.9	539	80.7	0.762	11.9	84.2	4.30	31.2	657	19
04/05/2022	14.01	4.44	<1.726	<2.589	115	521	76.3	0.604	11.3	79.6	3.91	28.3	640	20.6
04/26/2022	6.80	4.93	<1.560	2.57	164	632	79.1	<2.14	11.7	83.8	6.68	30.3	657	7.54
05/03/2022	6.64	4.55	<1.404	2.44	153	582	73.1	<2.54	11.3	78.3	6.74	24.8	619	6.90
05/24/2022	6.03	4.15	<1.703	<2.555	115	553	65.7	<2.18	12.7	67.9	7.67	21.5	711	5.84
06/01/2022	5.61	2.96	<1.561	<2.341	75	410	47.8	<1.93	9.13	47.9	5.57	16.3	539	<2.14
06/28/2022		4.37	<1.468	2.28	95.1	634	70.6	3.06	15	63.8	6.71	25.5	802	8.09
07/05/2022	2.71	4.42	<1.481	2.84	86.5	636	69.6	<2.01	15.1	57.1	6.50	25.9	815	7.93
07/26/2022		3.44	<1.737	<2.605	54.5	480	62.8	0.595	12.4	38.7	5.54	18.5	667	<4.33
08/02/2022	12.41	4.34	<1.713	2.58	78	661	75.9	0.542	18.9	53	6.93	25.4	868	<4.41
08/30/2022	6.25	3.97	<2.026	<3.039	76	623	82.2	0.679	16.4	55.8	6.56	22.9	905	<3.78
09/06/2022	5.40	5.01	<1.481	2.70	84.2	713	93.3	0.697	18.7	65.8	6.77	26.1	995	<3.73
09/27/2022	5.76	4.27	<1.257	3.61	79.4	688	96.6	1.02	14	76.5	4.68	19.7	956	6
10/04/2022	4.99	4.93	<1.338	3.70	82.8	678	92.5	1.01	17	76.1	4.91	19.9	997	5.61
10/25/2022	6.52	4.39	<1.479	2.29	71.9	697	80.3	0.688	15.6	83	4.55	24.8	853	4.79
11/01/2022	6.83	4.54	<1.735	<2.602	71.1	633	78.3	0.900	17.2	85.7	5.51	23.1	851	5.27
11/29/2022	7.39	6.04	<1.362	<2.042	93.7	649	71.5	0.32	17.6	95.8	5.85	23.9	758	4.87
12/06/2022	7.26	5.07	<1.863	<2.794	62.3	565	47.4	0.72	12.2	68.5	3.23	15.6	542	3.46
12/27/2022	5.15	4.87	<1.521	<2.282	56.6	341	39.5	0.620	9.54	57	2.91	11.3	384	3.64

Table 24: Bucklin Point Sludge Samples

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

Year	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
1994	16.2		35.4	655.5	3839.7	723.4	84.2		627.6		171.3	4234.5	64.3
1995			35.8	681.0	4306.7	551.8	55.9		539.8		126.2	3495.8	57.6
1996													
1997	16.0		52.9	1177.6	4589.3	1183.6	16.0		1074.4		339.8	4349.4	58.9
1998	12.2		44.8	1263.0	4743.4	1128.3	12.2		977.8		463.4	5838.9	27.7
1999	11.1		44.4	993.6	3906.8	930.3	11.1		716.9		473.0	5945.8	24.3
2000	38.3		60.8	1304.1	5164.7	1073.2	16.8	171.8	1345.4		467.7	7104.0	24.8
2001	57.8	13.6	38.6	1003.3	4132.9	900.1	12.0	167.4	985.3	44.4	371.2	6336.5	33.6
2002	43.7	6.1	27.1	755.0	4565.0	1034.3	18.0	148.9	840.7	37.6	385.8	7226.0	13.3
2003	30.2	6.6	29.2	2669.3	3439.4	772.3	10.0	69.3	868.1	32.1	273.0	5973.1	8.9
2004	27.6	7.3	45.5	851.5	3733.7	739.0	11.6	62.0	794.7	36.1	225.0	6759.2	7.6
2005	18.8	5.9	30.9	969.5	4468.6	682.1	8.9	77.4	781.5	32.5	153.0	5469.7	10.3
2006	25.5	2.0	24.4	2398.8	3657.0	713.0	6.8	37.1	1089.2	33.9	165.4	4953.9	12.0
2007	11.2	5.2	25.7	4143.3	4676.1	633.5	9.3	70.7	1389.7	14.4	177.5	5635.0	22.8
2008	8.9	14.1	23.3	5594.6	4209.5	585.4	36.0	84.7	1568.6	17.4	116.8	5519.0	27.4
2009	18.1	8.2	20.6	1054.3	3132.4	516.6	4.6	79.6	438.2	14.6	62.5	4895.0	19.3
2010	20.7	7.0	17.5	619.0	3075.2	445.7	14.4	74.3	318.1	14.6	58.1	3949.5	17.1
2011	19.3	9.0	13.9	499.9	2159.5	474.2	4.9	90.0	294.1	15.1	66.4	3583.1	14.5
2012	18.2	8.4	13.5	370.6	2502.2	370.7	4.3	84.3	269.2	16.0	56.8	3388.8	24.9
2013	21.1	1.9	11.7	349.5	2493.6	381.4	4.0	45.4	271.9	21.2	54.1	3264.5	19.6
2014	26.7	2.6	11.1	434.6	3278.0	374.7	2.9	51.7	336.3	30.4	58.0	3510.2	19.2
2015	25.4	2.3	7.4	422.7	3125.3	367.9	3.3	49.2	346.2	31.9	54.6	3620.0	21.8
2016	24.1	2.2	5.8	397.5	2872.2	365.9	3.9	54.1	347.5	28.4	80.7	3620.5	17.9
2017	19.5	2.2	7.2	682.3	2508.7	326.0	2.3	45.5	524.6	27.1	61.5	3205.9	10.5
2018	22.2	6.0	14.1	369.7	2333.5	360.7	1.5	46.9	272.7	25.4	62.8	3149.7	14.4
2019	22.7	10.1	15.2	388.1	2819.8	416.4	3.5	56.5	332.2	30.2	63.8	3429.2	19.2
2020	18.9	9.5	14.3	278.4	2641.5	400.5	2.9	54.0	242.4	27.5	87.5	3270.1	18.4
2021	19.3	9.9	14.9	284.7	2823.6	312.9	3.2	54.1	217.3	24.4	93.6	3139.0	20.3
2022	18.8	7.3	11.8	372.5	2458.5	294.3	4.5	57.8	290.4	22.0	103.6	3068.6	29.1

*Laboratory calculation methodology was changed in 2018; 2017 data and earlier may be slightly underestimated by previous method.

Table 25: Bucklin Point Sludge Summary

Bucklin Point and Field's Point 2022
Quarterly Filter Cake Data

Plant:	Bucklin Point				Field's Point			
Quarter:	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Sample Date:	2/1/2022	4/12/2022	7/19/2022	10/18/2022	2/1/2022	4/12/2022	7/19/2022	10/18/2022
(TCLP) Arsenic (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(TCLP) Barium (mg/L)	1.45	0.052	0.095	0.077	1.05	0.173	0.448	0.106
(TCLP) Cadmium (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Chromium (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Lead (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Mercury (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
(TCLP) Selenium (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(TCLP) Silver (mg/L)	<0.025	<0.200	<0.025	<0.025	<0.025	<0.200	<0.025	<0.025
Aluminum (mg/kg)	10500	7200	6370	9670	1240	1670	2180	4440
Arsenic (mg/kg)	<3.48	4.85	5.4	<4.38	2.99	5.04	5.14	4.37
Beryllium (mg/kg)	<1.15	0.73	<1.10	<1.44	<0.98	0.18	<0.96	<1.09
Cadmium (mg/kg)	2.44	2.72	<1.67	3.4	1.54	1.88	<1.46	2.34
Chromium (mg/kg)	78.2	136	77.3	82.4	16.6	17.8	20.5	35.4
Copper (mg/kg)	603	592	712	688	130	130	189	197
Iron (mg/kg)	14800	13000	15600	18000	9460	9480	12500	16500
Lead (mg/kg)	64.5	82.8	87.3	88.9	30.7	59.9	81.5	140
Mercury (mg/kg)	0.95	0.433	0.654	0.805	1.89	0.197	0.351	<0.469
Nickel (mg/kg)	62.5	85.7	57	92.8	24.6	19	44.7	37.7
Phosphorus (mg/kg)	18200	12900	22600	17900	11800	8280	14000	9960
Selenium (mg/kg)	<3.48	<0.45	<3.34	4.39	<2.96	<0.41	<2.92	4.52
Zinc (mg/kg)	781	679	958	994	358	332	555	529
Total PCBs (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1221 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1232 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1016 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1242 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1248 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1254 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1260 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1262 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Arachlor 1268 (ug/kg)	<286	<278	<278	<272	<245	<235	<245	<200
Percent Total Solids (%)	22.3	22.5	22.7	23.9	26	27	26.4	32.3
Percent Fixed Solids (%)	26	25	6	24	12	15	5	26
Percent Volatile Solids (%)	74	75	94	76	88	85	95	74
Paint Filter/Free Liquids (Present/Absent)	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
(TCLP) Benzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Carbon tetrachloride (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Chlordane (mg/L) *	<0.005	NA	NA	NA	<0.005	NA	NA	NA
(TCLP) Chlorobenzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Chloroform (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) o-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) m-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) p-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4-D (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) 1,4-Dichlorobenzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 1,2-Dichloroethane (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 1,1-Dichloroethylene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA

Table 26: Quarterly Filter Cake Data

Bucklin Point and Field's Point 2022
Quarterly Filter Cake Data

Plant:	Bucklin Point				Field's Point			
Quarter:	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Sample Date:	2/1/2022	4/12/2022	7/19/2022	10/18/2022	2/1/2022	4/12/2022	7/19/2022	10/18/2022
(TCLP) 2,4-Dinitrotoluene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Endrin (mg/L) *	<0.001	NA	NA	NA	<0.002	NA	NA	NA
(TCLP) Heptachlor (and its hydroxide/epoxide) (mg/L) *	<0.05	NA	NA	NA	<0.001	NA	NA	NA
(TCLP) Hexachlorobenzene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Hexachlorobutadiene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Hexachloroethane (mg/L) *	<0.001	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Lindane (mg/L) *	<0.010	NA	NA	NA	<0.001	NA	NA	NA
(TCLP) Methoxychlor (mg/L) *	<0.10	NA	NA	NA	<0.010	NA	NA	NA
(TCLP) Methyl ethyl ketone (mg/L) *	<0.05	NA	NA	NA	<2.00	NA	NA	NA
(TCLP) Nitrobenzene (mg/L) *	<0.10	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Pentachlorophenol (mg/L) *	<0.05	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) Pyridine (mg/L) *	<0.02	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Tetrachloroethylene (mg/L) *	<0.100	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Toxaphene (mg/L) *	<0.02	NA	NA	NA	<0.100	NA	NA	NA
(TCLP) Trichloroethylene (mg/L) *	<0.10	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 2,4,5-Trichlorophenol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4,6-Trichlorophenol (mg/L) *	<0.01	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4,5-TP (Silvex) (mg/L) *	<0.02	NA	NA	NA	<0.01	NA	NA	NA
(TCLP) Vinyl chloride (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
Corrosivity/pH (SU)	7.7	7.7	8.1	8.2	5.3	5.2	5.1	5.1
Flash Point/Ignitability (°F) *	>200	NA	NA	NA	>200	NA	NA	NA
Reactive Cyanide (mg/kg) *	<0.9	NA	NA	NA	<0.8	NA	NA	NA
Reactive Sulfide (mg/kg) *	<0.4	NA	NA	NA	<0.4	NA	NA	NA
Percent Total Sulfur (%) *	0.933	NA	NA	NA	0.479	NA	NA	NA

*Parameter analysis required annually

NA = Not Analyzed

All samples analyzed by R.I. Analytical Laboratories, Inc, Warwick, Rhode Island

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2022	(m & p) Xylene	<0.002	ppm
1/4/2022	(o) Xylene	<0.001	ppm
1/4/2022	1,1,1-Trichloroethane	<0.001	ppm
1/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/4/2022	1,1,2-Trichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethene	<0.001	ppm
1/4/2022	1,2-Dichlorobenzene	<0.001	ppm
1/4/2022	1,2-Dichloroethane	<0.001	ppm
1/4/2022	1,2-Dichloropropane	<0.001	ppm
1/4/2022	1,3-Dichlorobenzene	<0.001	ppm
1/4/2022	1,4-Dichlorobenzene	<0.001	ppm
1/4/2022	2-Chloroethylvinylether	<0.001	ppm
1/4/2022	Acetone	0.138	ppm
1/4/2022	Acrolein	<0.001	ppm
1/4/2022	Acrylonitrile	<0.001	ppm
1/4/2022	Benzene	<0.001	ppm
1/4/2022	Bromodichloromethane	<0.001	ppm
1/4/2022	Bromoform	<0.001	ppm
1/4/2022	Bromomethane	<0.002	ppm
1/4/2022	Carbon Tetrachloride	<0.001	ppm
1/4/2022	Chlorobenzene	<0.001	ppm
1/4/2022	Chloroethane	<0.001	ppm
1/4/2022	Chloroform	0.00356	ppm
1/4/2022	Chloromethane	<0.001	ppm
1/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Dibromochloromethane	<0.001	ppm
1/4/2022	Ethylbenzene	<0.001	ppm
1/4/2022	Methylene Chloride	<0.001	ppm
1/4/2022	Tetrachloroethene	0.00137	ppm
1/4/2022	Toluene	0.00138	ppm
1/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
1/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Trichloroethene	<0.001	ppm
1/4/2022	Trichlorofluoromethane	<0.001	ppm
1/4/2022	Vinyl Chloride	<0.001	ppm
2/8/2022	(m & p) Xylene	<0.002	ppm
2/8/2022	(o) Xylene	<0.001	ppm
2/8/2022	1,1,1-Trichloroethane	<0.001	ppm
2/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/8/2022	1,1,2-Trichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethene	<0.001	ppm
2/8/2022	1,2-Dichlorobenzene	<0.001	ppm
2/8/2022	1,2-Dichloroethane	<0.001	ppm
2/8/2022	1,2-Dichloropropane	<0.001	ppm
2/8/2022	1,3-Dichlorobenzene	<0.001	ppm
2/8/2022	1,4-Dichlorobenzene	<0.001	ppm
2/8/2022	2-Chloroethylvinylether	<0.001	ppm
2/8/2022	Acetone	0.141	ppm
2/8/2022	Acrolein	<0.001	ppm
2/8/2022	Acrylonitrile	<0.001	ppm
2/8/2022	Benzene	<0.001	ppm
2/8/2022	Bromodichloromethane	<0.001	ppm
2/8/2022	Bromoform	<0.001	ppm
2/8/2022	Bromomethane	<0.002	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2022	(m & p) Xylene	<0.002	ppm
1/4/2022	(o) Xylene	<0.001	ppm
1/4/2022	1,1,1-Trichloroethane	<0.001	ppm
1/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/4/2022	1,1,2-Trichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethene	<0.001	ppm
1/4/2022	1,2-Dichlorobenzene	<0.001	ppm
1/4/2022	1,2-Dichloroethane	<0.001	ppm
1/4/2022	1,2-Dichloropropane	<0.001	ppm
1/4/2022	1,3-Dichlorobenzene	<0.001	ppm
1/4/2022	1,4-Dichlorobenzene	<0.001	ppm
1/4/2022	2-Chloroethylvinylether	<0.001	ppm
1/4/2022	Acetone	<0.001	ppm
1/4/2022	Acrolein	<0.001	ppm
1/4/2022	Acrylonitrile	<0.001	ppm
1/4/2022	Benzene	<0.001	ppm
1/4/2022	Bromodichloromethane	<0.001	ppm
1/4/2022	Bromoform	<0.001	ppm
1/4/2022	Bromomethane	<0.002	ppm
1/4/2022	Carbon Tetrachloride	<0.001	ppm
1/4/2022	Chlorobenzene	<0.001	ppm
1/4/2022	Chloroethane	<0.001	ppm
1/4/2022	Chloroform	0.00115	ppm
1/4/2022	Chloromethane	<0.001	ppm
1/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Dibromochloromethane	<0.001	ppm
1/4/2022	Ethylbenzene	<0.001	ppm
1/4/2022	Methylene Chloride	<0.001	ppm
1/4/2022	Tetrachloroethene	<0.001	ppm
1/4/2022	Toluene	<0.001	ppm
1/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
1/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Trichloroethene	<0.001	ppm
1/4/2022	Trichlorofluoromethane	<0.001	ppm
1/4/2022	Vinyl Chloride	<0.001	ppm
2/8/2022	(m & p) Xylene	<0.002	ppm
2/8/2022	(o) Xylene	<0.001	ppm
2/8/2022	1,2-Dichlorobenzene	<0.001	ppm
2/8/2022	1,3-Dichlorobenzene	<0.001	ppm
2/8/2022	1,4-Dichlorobenzene	<0.001	ppm
2/8/2022	2-Chloroethylvinylether	<0.001	ppm
2/8/2022	Acetone	<0.001	ppm
2/8/2022	Acrolein	<0.001	ppm
2/8/2022	Acrylonitrile	<0.001	ppm
2/8/2022	Benzene	<0.001	ppm
2/8/2022	Chlorobenzene	<0.001	ppm
2/8/2022	Ethylbenzene	<0.001	ppm
2/8/2022	Toluene	<0.001	ppm
2/8/2022	1,1,1-Trichloroethane	0.00106	ppm
2/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/8/2022	1,1,2-Trichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethene	<0.001	ppm
2/8/2022	1,2-Dichloroethane	<0.001	ppm
2/8/2022	1,2-Dichloropropane	<0.002	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2022	Carbon Tetrachloride	<0.001	ppm
2/8/2022	Chlorobenzene	<0.001	ppm
2/8/2022	Chloroethane	<0.001	ppm
2/8/2022	Chloroform	0.00290	ppm
2/8/2022	Chloromethane	<0.001	ppm
2/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Dibromochloromethane	<0.001	ppm
2/8/2022	Ethylbenzene	<0.001	ppm
2/8/2022	Methylene Chloride	<0.001	ppm
2/8/2022	Tetrachloroethene	0.00120	ppm
2/8/2022	Toluene	0.00129	ppm
2/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
2/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Trichloroethene	<0.001	ppm
2/8/2022	Trichlorofluoromethane	<0.001	ppm
2/8/2022	Vinyl Chloride	<0.001	ppm
3/8/2022	(m & p) Xylene	<0.002	ppm
3/8/2022	(o) Xylene	<0.001	ppm
3/8/2022	1,1,1-Trichloroethane	<0.001	ppm
3/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/8/2022	1,1,2-Trichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethene	<0.001	ppm
3/8/2022	1,2-Dichlorobenzene	<0.001	ppm
3/8/2022	1,2-Dichloroethane	<0.001	ppm
3/8/2022	1,2-Dichloropropane	<0.001	ppm
3/8/2022	1,3-Dichlorobenzene	<0.001	ppm
3/8/2022	1,4-Dichlorobenzene	<0.001	ppm
3/8/2022	2-Chloroethylvinylether	<0.001	ppm
3/8/2022	Acetone	0.174	ppm
3/8/2022	Acrolein	<0.001	ppm
3/8/2022	Acrylonitrile	<0.001	ppm
3/8/2022	Benzene	<0.001	ppm
3/8/2022	Bromodichloromethane	<0.001	ppm
3/8/2022	Bromoform	<0.001	ppm
3/8/2022	Bromomethane	<0.002	ppm
3/8/2022	Carbon Tetrachloride	<0.001	ppm
3/8/2022	Chlorobenzene	<0.001	ppm
3/8/2022	Chloroethane	<0.001	ppm
3/8/2022	Chloroform	0.00271	ppm
3/8/2022	Chloromethane	<0.001	ppm
3/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Dibromochloromethane	<0.001	ppm
3/8/2022	Ethylbenzene	<0.001	ppm
3/8/2022	Methylene Chloride	<0.001	ppm
3/8/2022	Tetrachloroethene	0.00114	ppm
3/8/2022	Toluene	<0.001	ppm
3/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
3/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Trichloroethene	<0.001	ppm
3/8/2022	Trichlorofluoromethane	<0.001	ppm
3/8/2022	Vinyl Chloride	<0.001	ppm
4/5/2022	(m & p) Xylene	<0.002	ppm
4/5/2022	(o) Xylene	<0.001	ppm
4/5/2022	1,1,1-Trichloroethane	<0.001	ppm
4/5/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2022	Bromodichloromethane	<0.001	ppm
2/8/2022	Bromoform	<0.001	ppm
2/8/2022	Bromomethane	<0.001	ppm
2/8/2022	Carbon Tetrachloride	0.00144	ppm
2/8/2022	Chloroethane	<0.001	ppm
2/8/2022	Chloroform	<0.001	ppm
2/8/2022	Chloromethane	<0.001	ppm
2/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Dibromochloromethane	<0.001	ppm
2/8/2022	Methylene Chloride	<0.001	ppm
2/8/2022	Tetrachloroethene	<0.001	ppm
2/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
2/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Trichloroethene	<0.001	ppm
2/8/2022	Trichlorofluoromethane	<0.001	ppm
2/8/2022	Vinyl Chloride	<0.001	ppm
3/8/2022	(m & p) Xylene	<0.002	ppm
3/8/2022	(o) Xylene	<0.001	ppm
3/8/2022	1,2-Dichlorobenzene	<0.001	ppm
3/8/2022	1,3-Dichlorobenzene	<0.001	ppm
3/8/2022	1,4-Dichlorobenzene	<0.001	ppm
3/8/2022	2-Chloroethylvinylether	<0.001	ppm
3/8/2022	Acetone	<0.001	ppm
3/8/2022	Acrolein	<0.001	ppm
3/8/2022	Acrylonitrile	<0.001	ppm
3/8/2022	Benzene	<0.001	ppm
3/8/2022	Chlorobenzene	<0.001	ppm
3/8/2022	Ethylbenzene	<0.001	ppm
3/8/2022	Toluene	<0.001	ppm
3/8/2022	1,1,1-Trichloroethane	<0.001	ppm
3/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/8/2022	1,1,2-Trichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethene	<0.001	ppm
3/8/2022	1,2-Dichloroethane	<0.001	ppm
3/8/2022	1,2-Dichloropropane	<0.002	ppm
3/8/2022	Bromodichloromethane	<0.001	ppm
3/8/2022	Bromoform	<0.001	ppm
3/8/2022	Bromomethane	<0.001	ppm
3/8/2022	Carbon Tetrachloride	0.00120	ppm
3/8/2022	Chloroethane	<0.001	ppm
3/8/2022	Chloroform	<0.001	ppm
3/8/2022	Chloromethane	<0.001	ppm
3/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Dibromochloromethane	<0.001	ppm
3/8/2022	Methylene Chloride	<0.001	ppm
3/8/2022	Tetrachloroethene	<0.001	ppm
3/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
3/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Trichloroethene	<0.001	ppm
3/8/2022	Trichlorofluoromethane	<0.001	ppm
3/8/2022	Vinyl Chloride	<0.001	ppm
4/5/2022	(m & p) Xylene	<0.002	ppm
4/5/2022	(o) Xylene	<0.001	ppm
4/5/2022	1,2-Dichlorobenzene	<0.001	ppm
4/5/2022	1,3-Dichlorobenzene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2022	1,1,2-Trichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethene	<0.001	ppm
4/5/2022	1,2-Dichlorobenzene	<0.001	ppm
4/5/2022	1,2-Dichloroethane	<0.001	ppm
4/5/2022	1,2-Dichloropropane	<0.001	ppm
4/5/2022	1,3-Dichlorobenzene	<0.001	ppm
4/5/2022	1,4-Dichlorobenzene	<0.001	ppm
4/5/2022	2-Chloroethylvinylether	<0.001	ppm
4/5/2022	Acetone	0.211	ppm
4/5/2022	Acrolein	<0.001	ppm
4/5/2022	Acrylonitrile	<0.001	ppm
4/5/2022	Benzene	<0.001	ppm
4/5/2022	Bromodichloromethane	<0.001	ppm
4/5/2022	Bromoform	<0.001	ppm
4/5/2022	Bromomethane	<0.002	ppm
4/5/2022	Carbon Tetrachloride	<0.001	ppm
4/5/2022	Chlorobenzene	<0.001	ppm
4/5/2022	Chloroethane	<0.001	ppm
4/5/2022	Chloroform	0.00412	ppm
4/5/2022	Chloromethane	<0.001	ppm
4/5/2022	cis-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Dibromochloromethane	<0.001	ppm
4/5/2022	Ethylbenzene	<0.001	ppm
4/5/2022	Methylene Chloride	<0.001	ppm
4/5/2022	Tetrachloroethene	0.00124	ppm
4/5/2022	Toluene	<0.001	ppm
4/5/2022	trans-1,2-Dichloroethene	<0.001	ppm
4/5/2022	trans-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Trichloroethene	<0.001	ppm
4/5/2022	Trichlorofluoromethane	<0.001	ppm
4/5/2022	Vinyl Chloride	<0.001	ppm
5/3/2022	(m & p) Xylene	0.0166	ppm
5/3/2022	(o) Xylene	0.00650	ppm
5/3/2022	1,1,1-Trichloroethane	<0.001	ppm
5/3/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/3/2022	1,1,2-Trichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethene	<0.001	ppm
5/3/2022	1,2-Dichlorobenzene	<0.001	ppm
5/3/2022	1,2-Dichloroethane	<0.001	ppm
5/3/2022	1,2-Dichloropropane	<0.001	ppm
5/3/2022	1,3-Dichlorobenzene	<0.001	ppm
5/3/2022	1,4-Dichlorobenzene	<0.001	ppm
5/3/2022	2-Chloroethylvinylether	<0.001	ppm
5/3/2022	Acetone	0.132	ppm
5/3/2022	Acrolein	<0.001	ppm
5/3/2022	Acrylonitrile	<0.001	ppm
5/3/2022	Benzene	<0.001	ppm
5/3/2022	Bromodichloromethane	<0.001	ppm
5/3/2022	Bromoform	<0.001	ppm
5/3/2022	Bromomethane	<0.002	ppm
5/3/2022	Carbon Tetrachloride	<0.001	ppm
5/3/2022	Chlorobenzene	<0.001	ppm
5/3/2022	Chloroethane	<0.001	ppm
5/3/2022	Chloroform	0.00452	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2022	1,4-Dichlorobenzene	<0.001	ppm
4/5/2022	2-Chloroethylvinylether	<0.001	ppm
4/5/2022	Acetone	<0.001	ppm
4/5/2022	Acrolein	<0.001	ppm
4/5/2022	Acrylonitrile	<0.001	ppm
4/5/2022	Benzene	<0.001	ppm
4/5/2022	Chlorobenzene	<0.001	ppm
4/5/2022	Ethylbenzene	<0.001	ppm
4/5/2022	Toluene	<0.001	ppm
4/5/2022	1,1,1-Trichloroethane	<0.001	ppm
4/5/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
4/5/2022	1,1,2-Trichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethene	<0.001	ppm
4/5/2022	1,2-Dichloroethane	<0.001	ppm
4/5/2022	1,2-Dichloropropane	<0.002	ppm
4/5/2022	Bromodichloromethane	<0.001	ppm
4/5/2022	Bromoform	<0.001	ppm
4/5/2022	Bromomethane	<0.001	ppm
4/5/2022	Carbon Tetrachloride	0.00134	ppm
4/5/2022	Chloroethane	<0.001	ppm
4/5/2022	Chloroform	<0.001	ppm
4/5/2022	Chloromethane	<0.001	ppm
4/5/2022	cis-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Dibromochloromethane	<0.001	ppm
4/5/2022	Methylene Chloride	<0.001	ppm
4/5/2022	Tetrachloroethene	<0.001	ppm
4/5/2022	trans-1,2-Dichloroethene	<0.001	ppm
4/5/2022	trans-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Trichloroethene	<0.001	ppm
4/5/2022	Trichlorofluoromethane	<0.001	ppm
4/5/2022	Vinyl Chloride	<0.001	ppm
5/3/2022	(m & p) Xylene	<0.002	ppm
5/3/2022	(o) Xylene	<0.001	ppm
5/3/2022	1,2-Dichlorobenzene	<0.001	ppm
5/3/2022	1,3-Dichlorobenzene	<0.001	ppm
5/3/2022	1,4-Dichlorobenzene	<0.001	ppm
5/3/2022	2-Chloroethylvinylether	<0.001	ppm
5/3/2022	Acetone	<0.001	ppm
5/3/2022	Acrolein	<0.001	ppm
5/3/2022	Acrylonitrile	<0.001	ppm
5/3/2022	Benzene	<0.001	ppm
5/3/2022	Chlorobenzene	<0.001	ppm
5/3/2022	Ethylbenzene	<0.001	ppm
5/3/2022	Toluene	<0.001	ppm
5/3/2022	1,1,1-Trichloroethane	0.00131	ppm
5/3/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/3/2022	1,1,2-Trichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethene	0.00833	ppm
5/3/2022	1,2-Dichloroethane	<0.001	ppm
5/3/2022	1,2-Dichloropropane	<0.002	ppm
5/3/2022	Bromodichloromethane	<0.001	ppm
5/3/2022	Bromoform	<0.001	ppm
5/3/2022	Bromomethane	<0.001	ppm
5/3/2022	Carbon Tetrachloride	0.0106	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
5/3/2022	Chloromethane	<0.001	ppm
5/3/2022	cis-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Dibromochloromethane	<0.001	ppm
5/3/2022	Ethylbenzene	0.00328	ppm
5/3/2022	Methylene Chloride	<0.001	ppm
5/3/2022	Tetrachloroethene	0.00157	ppm
5/3/2022	Toluene	0.00176	ppm
5/3/2022	trans-1,2-Dichloroethene	<0.001	ppm
5/3/2022	trans-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Trichloroethene	<0.001	ppm
5/3/2022	Trichlorofluoromethane	<0.001	ppm
5/3/2022	Vinyl Chloride	<0.001	ppm
6/7/2022	(m & p) Xylene	<0.002	ppm
6/7/2022	(o) Xylene	<0.001	ppm
6/7/2022	1,1,1-Trichloroethane	<0.001	ppm
6/7/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/7/2022	1,1,2-Trichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethene	<0.001	ppm
6/7/2022	1,2-Dichlorobenzene	<0.001	ppm
6/7/2022	1,2-Dichloroethane	<0.001	ppm
6/7/2022	1,2-Dichloropropane	<0.001	ppm
6/7/2022	1,3-Dichlorobenzene	<0.001	ppm
6/7/2022	1,4-Dichlorobenzene	<0.001	ppm
6/7/2022	2-Chloroethylvinylether	<0.001	ppm
6/7/2022	Acetone	0.0793	ppm
6/7/2022	Acrolein	<0.001	ppm
6/7/2022	Acrylonitrile	<0.001	ppm
6/7/2022	Benzene	<0.001	ppm
6/7/2022	Bromodichloromethane	<0.001	ppm
6/7/2022	Bromoform	<0.001	ppm
6/7/2022	Bromomethane	<0.002	ppm
6/7/2022	Carbon Tetrachloride	<0.001	ppm
6/7/2022	Chlorobenzene	<0.001	ppm
6/7/2022	Chloroethane	<0.001	ppm
6/7/2022	Chloroform	0.00460	ppm
6/7/2022	Chloromethane	<0.001	ppm
6/7/2022	cis-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Dibromochloromethane	<0.001	ppm
6/7/2022	Ethylbenzene	<0.001	ppm
6/7/2022	Methylene Chloride	<0.001	ppm
6/7/2022	Tetrachloroethene	0.00111	ppm
6/7/2022	Toluene	0.00342	ppm
6/7/2022	trans-1,2-Dichloroethene	<0.001	ppm
6/7/2022	trans-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Trichloroethene	<0.001	ppm
6/7/2022	Trichlorofluoromethane	<0.001	ppm
6/7/2022	Vinyl Chloride	<0.001	ppm
7/12/2022	(m & p) Xylene	<0.002	ppm
7/12/2022	(o) Xylene	<0.001	ppm
7/12/2022	1,1,1-Trichloroethane	<0.001	ppm
7/12/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/12/2022	1,1,2-Trichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethene	<0.001	ppm
7/12/2022	1,2-Dichlorobenzene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
5/3/2022	Chloroethane	<0.001	ppm
5/3/2022	Chloroform	<0.001	ppm
5/3/2022	Chloromethane	0.00368	ppm
5/3/2022	cis-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Dibromochloromethane	<0.001	ppm
5/3/2022	Methylene Chloride	<0.001	ppm
5/3/2022	Tetrachloroethene	<0.001	ppm
5/3/2022	trans-1,2-Dichloroethene	<0.001	ppm
5/3/2022	trans-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Trichloroethene	<0.001	ppm
5/3/2022	Trichlorofluoromethane	<0.001	ppm
5/3/2022	Vinyl Chloride	<0.001	ppm
6/7/2022	(m & p) Xylene	<0.002	ppm
6/7/2022	(o) Xylene	<0.001	ppm
6/7/2022	1,2-Dichlorobenzene	<0.001	ppm
6/7/2022	1,3-Dichlorobenzene	<0.001	ppm
6/7/2022	1,4-Dichlorobenzene	<0.001	ppm
6/7/2022	2-Chloroethylvinylether	<0.001	ppm
6/7/2022	Acetone	<0.001	ppm
6/7/2022	Acrolein	<0.001	ppm
6/7/2022	Acrylonitrile	<0.001	ppm
6/7/2022	Benzene	<0.001	ppm
6/7/2022	Chlorobenzene	<0.001	ppm
6/7/2022	Ethylbenzene	<0.001	ppm
6/7/2022	Toluene	<0.001	ppm
6/7/2022	1,1,1-Trichloroethane	<0.001	ppm
6/7/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/7/2022	1,1,2-Trichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethene	0.00246	ppm
6/7/2022	1,2-Dichloroethane	<0.001	ppm
6/7/2022	1,2-Dichloropropane	<0.002	ppm
6/7/2022	Bromodichloromethane	<0.001	ppm
6/7/2022	Bromoform	<0.001	ppm
6/7/2022	Bromomethane	<0.001	ppm
6/7/2022	Carbon Tetrachloride	0.00408	ppm
6/7/2022	Chloroethane	<0.001	ppm
6/7/2022	Chloroform	<0.001	ppm
6/7/2022	Chloromethane	<0.001	ppm
6/7/2022	cis-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Dibromochloromethane	<0.001	ppm
6/7/2022	Methylene Chloride	<0.001	ppm
6/7/2022	Tetrachloroethene	<0.001	ppm
6/7/2022	trans-1,2-Dichloroethene	<0.001	ppm
6/7/2022	trans-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Trichloroethene	<0.001	ppm
6/7/2022	Trichlorofluoromethane	<0.001	ppm
6/7/2022	Vinyl Chloride	<0.001	ppm
7/12/2022	(m & p) Xylene	<0.002	ppm
7/12/2022	(o) Xylene	<0.001	ppm
7/12/2022	1,2-Dichlorobenzene	<0.001	ppm
7/12/2022	1,3-Dichlorobenzene	<0.001	ppm
7/12/2022	1,4-Dichlorobenzene	<0.001	ppm
7/12/2022	2-Chloroethylvinylether	<0.001	ppm
7/12/2022	Acetone	<0.001	ppm
7/12/2022	Acrylonitrile	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2022	1,2-Dichloroethane	<0.001	ppm
7/12/2022	1,2-Dichloropropane	<0.001	ppm
7/12/2022	1,3-Dichlorobenzene	<0.001	ppm
7/12/2022	1,4-Dichlorobenzene	<0.001	ppm
7/12/2022	2-Chloroethylvinylether	<0.001	ppm
7/12/2022	Acetone	0.0861	ppm
7/12/2022	Acrolein	<0.001	ppm
7/12/2022	Acrylonitrile	<0.001	ppm
7/12/2022	Benzene	<0.001	ppm
7/12/2022	Bromodichloromethane	<0.001	ppm
7/12/2022	Bromoform	<0.001	ppm
7/12/2022	Bromomethane	<0.002	ppm
7/12/2022	Carbon Tetrachloride	<0.001	ppm
7/12/2022	Chlorobenzene	<0.001	ppm
7/12/2022	Chloroethane	<0.001	ppm
7/12/2022	Chloroform	0.00431	ppm
7/12/2022	Chloromethane	<0.001	ppm
7/12/2022	cis-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Dibromochloromethane	<0.001	ppm
7/12/2022	Ethylbenzene	<0.001	ppm
7/12/2022	Methylene Chloride	0.00345	ppm
7/12/2022	Tetrachloroethene	0.00109	ppm
7/12/2022	Toluene	0.00180	ppm
7/12/2022	trans-1,2-Dichloroethene	<0.001	ppm
7/12/2022	trans-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Trichloroethene	<0.001	ppm
7/12/2022	Trichlorofluoromethane	<0.001	ppm
7/12/2022	Vinyl Chloride	<0.001	ppm
8/2/2022	(m & p) Xylene	<0.002	ppm
8/2/2022	(o) Xylene	<0.001	ppm
8/2/2022	1,1,1-Trichloroethane	<0.001	ppm
8/2/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/2/2022	1,1,2-Trichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethene	<0.001	ppm
8/2/2022	1,2-Dichlorobenzene	<0.001	ppm
8/2/2022	1,2-Dichloroethane	<0.001	ppm
8/2/2022	1,2-Dichloropropane	<0.001	ppm
8/2/2022	1,3-Dichlorobenzene	<0.001	ppm
8/2/2022	1,4-Dichlorobenzene	<0.001	ppm
8/2/2022	2-Chloroethylvinylether	<0.001	ppm
8/2/2022	Acetone	0.0782	ppm
8/2/2022	Acrolein	<0.001	ppm
8/2/2022	Acrylonitrile	<0.001	ppm
8/2/2022	Benzene	<0.001	ppm
8/2/2022	Bromodichloromethane	<0.001	ppm
8/2/2022	Bromoform	<0.001	ppm
8/2/2022	Bromomethane	<0.002	ppm
8/2/2022	Carbon Tetrachloride	<0.001	ppm
8/2/2022	Chlorobenzene	<0.001	ppm
8/2/2022	Chloroethane	<0.001	ppm
8/2/2022	Chloroform	0.00505	ppm
8/2/2022	Chloromethane	<0.001	ppm
8/2/2022	cis-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Dibromochloromethane	<0.001	ppm
8/2/2022	Ethylbenzene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2022	Benzene	<0.001	ppm
7/12/2022	Chlorobenzene	<0.001	ppm
7/12/2022	Ethylbenzene	<0.001	ppm
7/12/2022	Toluene	<0.001	ppm
7/12/2022	Acrolein	<0.001	ppm
7/12/2022	1,1,1-Trichloroethane	<0.001	ppm
7/12/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/12/2022	1,1,2-Trichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethene	<0.001	ppm
7/12/2022	1,2-Dichloroethane	<0.001	ppm
7/12/2022	1,2-Dichloropropane	<0.002	ppm
7/12/2022	Bromodichloromethane	<0.001	ppm
7/12/2022	Bromoform	<0.001	ppm
7/12/2022	Bromomethane	<0.001	ppm
7/12/2022	Carbon Tetrachloride	0.00155	ppm
7/12/2022	Chloroethane	<0.001	ppm
7/12/2022	Chloroform	<0.001	ppm
7/12/2022	Chloromethane	<0.001	ppm
7/12/2022	cis-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Dibromochloromethane	<0.001	ppm
7/12/2022	Methylene Chloride	<0.001	ppm
7/12/2022	Tetrachloroethene	<0.001	ppm
7/12/2022	trans-1,2-Dichloroethene	<0.001	ppm
7/12/2022	trans-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Trichloroethene	<0.001	ppm
7/12/2022	Trichlorofluoromethane	<0.001	ppm
7/12/2022	Vinyl Chloride	<0.001	ppm
8/2/2022	(m & p) Xylene	<0.002	ppm
8/2/2022	(o) Xylene	<0.001	ppm
8/2/2022	1,2-Dichlorobenzene	<0.001	ppm
8/2/2022	1,3-Dichlorobenzene	<0.001	ppm
8/2/2022	1,4-Dichlorobenzene	<0.001	ppm
8/2/2022	2-Chloroethylvinylether	<0.001	ppm
8/2/2022	Acetone	<0.001	ppm
8/2/2022	Acrolein	<0.001	ppm
8/2/2022	Acrylonitrile	<0.001	ppm
8/2/2022	Benzene	<0.001	ppm
8/2/2022	Chlorobenzene	<0.001	ppm
8/2/2022	Ethylbenzene	<0.001	ppm
8/2/2022	Toluene	<0.001	ppm
8/2/2022	1,1,1-Trichloroethane	<0.001	ppm
8/2/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/2/2022	1,1,2-Trichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethene	0.00190	ppm
8/2/2022	1,2-Dichloroethane	<0.001	ppm
8/2/2022	1,2-Dichloropropane	<0.002	ppm
8/2/2022	Bromodichloromethane	<0.001	ppm
8/2/2022	Bromoform	<0.001	ppm
8/2/2022	Bromomethane	<0.001	ppm
8/2/2022	Carbon Tetrachloride	0.00263	ppm
8/2/2022	Chloroethane	<0.001	ppm
8/2/2022	Chloroform	<0.001	ppm
8/2/2022	Chloromethane	0.00110	ppm
8/2/2022	cis-1,3-Dichloropropene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/2/2022	Methylene Chloride	<0.001	ppm
8/2/2022	Tetrachloroethene	0.00134	ppm
8/2/2022	Toluene	0.00233	ppm
8/2/2022	trans-1,2-Dichloroethene	<0.001	ppm
8/2/2022	trans-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Trichloroethene	<0.001	ppm
8/2/2022	Trichlorofluoromethane	<0.001	ppm
8/2/2022	Vinyl Chloride	<0.001	ppm
9/13/2022	(m & p) Xylene	<0.002	ppm
9/13/2022	(o) Xylene	<0.001	ppm
9/13/2022	1,1,1-Trichloroethane	<0.001	ppm
9/13/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/13/2022	1,1,2-Trichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethene	<0.001	ppm
9/13/2022	1,2-Dichlorobenzene	<0.001	ppm
9/13/2022	1,2-Dichloroethane	<0.001	ppm
9/13/2022	1,2-Dichloropropane	<0.001	ppm
9/13/2022	1,3-Dichlorobenzene	<0.001	ppm
9/13/2022	1,4-Dichlorobenzene	<0.001	ppm
9/13/2022	2-Chloroethylvinylether	<0.001	ppm
9/13/2022	Acetone	0.0368	ppm
9/13/2022	Acrolein	<0.001	ppm
9/13/2022	Acrylonitrile	<0.001	ppm
9/13/2022	Benzene	<0.001	ppm
9/13/2022	Bromodichloromethane	<0.001	ppm
9/13/2022	Bromoform	<0.001	ppm
9/13/2022	Bromomethane	<0.002	ppm
9/13/2022	Carbon Tetrachloride	<0.001	ppm
9/13/2022	Chlorobenzene	<0.001	ppm
9/13/2022	Chloroethane	<0.001	ppm
9/13/2022	Chloroform	0.00204	ppm
9/13/2022	Chloromethane	<0.001	ppm
9/13/2022	cis-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Dibromochloromethane	<0.001	ppm
9/13/2022	Ethylbenzene	<0.001	ppm
9/13/2022	Methylene Chloride	<0.001	ppm
9/13/2022	Tetrachloroethene	<0.001	ppm
9/13/2022	Toluene	0.00293	ppm
9/13/2022	trans-1,2-Dichloroethene	<0.001	ppm
9/13/2022	trans-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Trichloroethene	<0.001	ppm
9/13/2022	Trichlorofluoromethane	<0.001	ppm
9/13/2022	Vinyl Chloride	<0.001	ppm
10/4/2022	(m & p) Xylene	0.00549	ppm
10/4/2022	(o) Xylene	0.00301	ppm
10/4/2022	1,1,1-Trichloroethane	<0.001	ppm
10/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/4/2022	1,1,2-Trichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethene	<0.001	ppm
10/4/2022	1,2-Dichlorobenzene	<0.001	ppm
10/4/2022	1,2-Dichloroethane	<0.001	ppm
10/4/2022	1,2-Dichloropropane	<0.001	ppm
10/4/2022	1,3-Dichlorobenzene	<0.001	ppm
10/4/2022	1,4-Dichlorobenzene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
8/2/2022	Dibromochloromethane	<0.001	ppm
8/2/2022	Methylene Chloride	<0.001	ppm
8/2/2022	Tetrachloroethene	<0.001	ppm
8/2/2022	trans-1,2-Dichloroethene	<0.001	ppm
8/2/2022	trans-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Trichloroethene	<0.001	ppm
8/2/2022	Trichlorofluoromethane	<0.001	ppm
8/2/2022	Vinyl Chloride	<0.001	ppm
9/13/2022	(m & p) Xylene	<0.002	ppm
9/13/2022	(o) Xylene	<0.001	ppm
9/13/2022	1,2-Dichlorobenzene	<0.001	ppm
9/13/2022	1,3-Dichlorobenzene	<0.001	ppm
9/13/2022	1,4-Dichlorobenzene	<0.001	ppm
9/13/2022	2-Chloroethylvinylether	<0.001	ppm
9/13/2022	Acetone	<0.001	ppm
9/13/2022	Acrolein	<0.001	ppm
9/13/2022	Acrylonitrile	<0.001	ppm
9/13/2022	Benzene	<0.001	ppm
9/13/2022	Chlorobenzene	<0.001	ppm
9/13/2022	Ethylbenzene	<0.001	ppm
9/13/2022	Toluene	<0.001	ppm
9/13/2022	1,1,1-Trichloroethane	<0.001	ppm
9/13/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/13/2022	1,1,2-Trichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethene	0.00210	ppm
9/13/2022	1,2-Dichloroethane	<0.001	ppm
9/13/2022	1,2-Dichloropropane	<0.002	ppm
9/13/2022	Bromodichloromethane	<0.001	ppm
9/13/2022	Bromoform	<0.001	ppm
9/13/2022	Bromomethane	<0.001	ppm
9/13/2022	Carbon Tetrachloride	0.00190	ppm
9/13/2022	Chloroethane	<0.001	ppm
9/13/2022	Chloroform	<0.001	ppm
9/13/2022	Chloromethane	0.00167	ppm
9/13/2022	cis-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Dibromochloromethane	<0.001	ppm
9/13/2022	Methylene Chloride	<0.001	ppm
9/13/2022	Tetrachloroethene	<0.001	ppm
9/13/2022	trans-1,2-Dichloroethene	<0.001	ppm
9/13/2022	trans-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Trichloroethene	<0.001	ppm
9/13/2022	Trichlorofluoromethane	<0.001	ppm
9/13/2022	Vinyl Chloride	<0.001	ppm
10/4/2022	(m & p) Xylene	<0.002	ppm
10/4/2022	(o) Xylene	<0.001	ppm
10/4/2022	1,2-Dichlorobenzene	<0.001	ppm
10/4/2022	1,3-Dichlorobenzene	<0.001	ppm
10/4/2022	1,4-Dichlorobenzene	<0.001	ppm
10/4/2022	2-Chloroethylvinylether	<0.001	ppm
10/4/2022	Acetone	<0.001	ppm
10/4/2022	Acrolein	<0.001	ppm
10/4/2022	Acrylonitrile	<0.001	ppm
10/4/2022	Benzene	<0.001	ppm
10/4/2022	Chlorobenzene	<0.001	ppm
10/4/2022	Ethylbenzene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
10/4/2022	2-Chloroethylvinylether	<0.001	ppm
10/4/2022	Acetone	0.131	ppm
10/4/2022	Acrolein	<0.001	ppm
10/4/2022	Acrylonitrile	<0.001	ppm
10/4/2022	Benzene	<0.001	ppm
10/4/2022	Bromodichloromethane	<0.001	ppm
10/4/2022	Bromoform	<0.001	ppm
10/4/2022	Bromomethane	<0.002	ppm
10/4/2022	Carbon Tetrachloride	<0.001	ppm
10/4/2022	Chlorobenzene	<0.001	ppm
10/4/2022	Chloroethane	<0.001	ppm
10/4/2022	Chloroform	0.00337	ppm
10/4/2022	Chloromethane	<0.001	ppm
10/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Dibromochloromethane	<0.001	ppm
10/4/2022	Ethylbenzene	0.00127	ppm
10/4/2022	Methylene Chloride	<0.001	ppm
10/4/2022	Tetrachloroethene	0.00105	ppm
10/4/2022	Toluene	0.00171	ppm
10/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
10/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Trichloroethene	<0.001	ppm
10/4/2022	Trichlorofluoromethane	<0.001	ppm
10/4/2022	Vinyl Chloride	<0.001	ppm
11/8/2022	(m & p) Xylene	<0.002	ppm
11/8/2022	(o) Xylene	<0.001	ppm
11/8/2022	1,1,1-Trichloroethane	<0.001	ppm
11/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/8/2022	1,1,2-Trichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethene	<0.001	ppm
11/8/2022	1,2-Dichlorobenzene	<0.001	ppm
11/8/2022	1,2-Dichloroethane	<0.001	ppm
11/8/2022	1,2-Dichloropropane	<0.001	ppm
11/8/2022	1,3-Dichlorobenzene	<0.001	ppm
11/8/2022	1,4-Dichlorobenzene	<0.001	ppm
11/8/2022	2-Chloroethylvinylether	<0.001	ppm
11/8/2022	Acetone	0.109	ppm
11/8/2022	Acrolein	<0.001	ppm
11/8/2022	Acrylonitrile	<0.001	ppm
11/8/2022	Benzene	<0.001	ppm
11/8/2022	Bromodichloromethane	<0.001	ppm
11/8/2022	Bromoform	<0.001	ppm
11/8/2022	Bromomethane	<0.002	ppm
11/8/2022	Carbon Tetrachloride	<0.001	ppm
11/8/2022	Chlorobenzene	<0.001	ppm
11/8/2022	Chloroethane	<0.001	ppm
11/8/2022	Chloroform	0.00282	ppm
11/8/2022	Chloromethane	<0.001	ppm
11/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Dibromochloromethane	<0.001	ppm
11/8/2022	Ethylbenzene	<0.001	ppm
11/8/2022	Methylene Chloride	<0.001	ppm
11/8/2022	Tetrachloroethene	0.00108	ppm
11/8/2022	Toluene	<0.001	ppm
11/8/2022	trans-1,2-Dichloroethene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
10/4/2022	Toluene	<0.001	ppm
10/4/2022	1,1,1-Trichloroethane	<0.001	ppm
10/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/4/2022	1,1,2-Trichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethene	0.00746	ppm
10/4/2022	1,2-Dichloroethane	<0.001	ppm
10/4/2022	1,2-Dichloropropane	<0.002	ppm
10/4/2022	Bromodichloromethane	<0.001	ppm
10/4/2022	Bromoform	<0.001	ppm
10/4/2022	Bromomethane	<0.001	ppm
10/4/2022	Carbon Tetrachloride	0.00528	ppm
10/4/2022	Chloroethane	<0.001	ppm
10/4/2022	Chloroform	<0.001	ppm
10/4/2022	Chloromethane	0.00436	ppm
10/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Dibromochloromethane	<0.001	ppm
10/4/2022	Methylene Chloride	<0.001	ppm
10/4/2022	Tetrachloroethene	<0.001	ppm
10/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
10/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Trichloroethene	<0.001	ppm
10/4/2022	Trichlorofluoromethane	<0.001	ppm
10/4/2022	Vinyl Chloride	<0.001	ppm
11/8/2022	(m & p) Xylene	<0.002	ppm
11/8/2022	(o) Xylene	<0.001	ppm
11/8/2022	1,2-Dichlorobenzene	<0.001	ppm
11/8/2022	1,3-Dichlorobenzene	<0.001	ppm
11/8/2022	1,4-Dichlorobenzene	<0.001	ppm
11/8/2022	2-Chloroethylvinylether	<0.001	ppm
11/8/2022	Acetone	<0.001	ppm
11/8/2022	Acrolein	<0.001	ppm
11/8/2022	Acrylonitrile	<0.001	ppm
11/8/2022	Benzene	<0.001	ppm
11/8/2022	Chlorobenzene	<0.001	ppm
11/8/2022	Ethylbenzene	<0.001	ppm
11/8/2022	Toluene	<0.001	ppm
11/8/2022	1,1,1-Trichloroethane	<0.001	ppm
11/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/8/2022	1,1,2-Trichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethene	<0.001	ppm
11/8/2022	1,2-Dichloroethane	<0.001	ppm
11/8/2022	1,2-Dichloropropane	<0.002	ppm
11/8/2022	Bromodichloromethane	<0.001	ppm
11/8/2022	Bromoform	<0.001	ppm
11/8/2022	Bromomethane	<0.001	ppm
11/8/2022	Carbon Tetrachloride	0.00101	ppm
11/8/2022	Chloroethane	<0.001	ppm
11/8/2022	Chloroform	<0.001	ppm
11/8/2022	Chloromethane	<0.001	ppm
11/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Dibromochloromethane	<0.001	ppm
11/8/2022	Methylene Chloride	<0.001	ppm
11/8/2022	Tetrachloroethene	<0.001	ppm
11/8/2022	trans-1,2-Dichloroethene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

EPA VOC Data
Field's Point 2022

Field's Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
11/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Trichloroethene	<0.001	ppm
11/8/2022	Trichlorofluoromethane	<0.001	ppm
11/8/2022	Vinyl Chloride	<0.001	ppm
12/6/2022	(m & p) Xylene	<0.002	ppm
12/6/2022	(o) Xylene	<0.001	ppm
12/6/2022	1,1,1-Trichloroethane	<0.001	ppm
12/6/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/6/2022	1,1,2-Trichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethene	<0.001	ppm
12/6/2022	1,2-Dichlorobenzene	<0.001	ppm
12/6/2022	1,2-Dichloroethane	<0.001	ppm
12/6/2022	1,2-Dichloropropane	<0.001	ppm
12/6/2022	1,3-Dichlorobenzene	<0.001	ppm
12/6/2022	1,4-Dichlorobenzene	<0.001	ppm
12/6/2022	2-Chloroethylvinylether	<0.001	ppm
12/6/2022	Acetone	0.195	ppm
12/6/2022	Acrolein	<0.001	ppm
12/6/2022	Acrylonitrile	<0.001	ppm
12/6/2022	Benzene	<0.001	ppm
12/6/2022	Bromodichloromethane	<0.001	ppm
12/6/2022	Bromoform	<0.001	ppm
12/6/2022	Bromomethane	<0.002	ppm
12/6/2022	Carbon Tetrachloride	<0.001	ppm
12/6/2022	Chlorobenzene	<0.001	ppm
12/6/2022	Chloroethane	<0.001	ppm
12/6/2022	Chloroform	0.00352	ppm
12/6/2022	Chloromethane	<0.001	ppm
12/6/2022	cis-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Dibromochloromethane	<0.001	ppm
12/6/2022	Ethylbenzene	<0.001	ppm
12/6/2022	Methylene Chloride	0.00182	ppm
12/6/2022	Tetrachloroethene	0.00140	ppm
12/6/2022	Toluene	<0.001	ppm
12/6/2022	trans-1,2-Dichloroethene	<0.001	ppm
12/6/2022	trans-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Trichloroethene	<0.001	ppm
12/6/2022	Trichlorofluoromethane	<0.001	ppm
12/6/2022	Vinyl Chloride	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
11/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Trichloroethene	<0.001	ppm
11/8/2022	Trichlorofluoromethane	<0.001	ppm
11/8/2022	Vinyl Chloride	<0.001	ppm
12/6/2022	(m & p) Xylene	<0.002	ppm
12/6/2022	(o) Xylene	<0.001	ppm
12/6/2022	1,2-Dichlorobenzene	<0.001	ppm
12/6/2022	1,3-Dichlorobenzene	<0.001	ppm
12/6/2022	1,4-Dichlorobenzene	<0.001	ppm
12/6/2022	2-Chloroethylvinylether	<0.001	ppm
12/6/2022	Acetone	<0.001	ppm
12/6/2022	Acrolein	<0.001	ppm
12/6/2022	Acrylonitrile	<0.001	ppm
12/6/2022	Benzene	<0.001	ppm
12/6/2022	Chlorobenzene	<0.001	ppm
12/6/2022	Ethylbenzene	<0.001	ppm
12/6/2022	Toluene	<0.001	ppm
12/6/2022	1,1,1-Trichloroethane	0.00232	ppm
12/6/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/6/2022	1,1,2-Trichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethene	<0.001	ppm
12/6/2022	1,2-Dichloroethane	<0.001	ppm
12/6/2022	1,2-Dichloropropane	<0.002	ppm
12/6/2022	Bromodichloromethane	<0.001	ppm
12/6/2022	Bromoform	<0.001	ppm
12/6/2022	Bromomethane	<0.001	ppm
12/6/2022	Carbon Tetrachloride	0.00116	ppm
12/6/2022	Chloroethane	<0.001	ppm
12/6/2022	Chloroform	<0.001	ppm
12/6/2022	Chloromethane	<0.001	ppm
12/6/2022	cis-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Dibromochloromethane	<0.001	ppm
12/6/2022	Methylene Chloride	<0.001	ppm
12/6/2022	Tetrachloroethene	<0.001	ppm
12/6/2022	trans-1,2-Dichloroethene	<0.001	ppm
12/6/2022	trans-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Trichloroethene	<0.001	ppm
12/6/2022	Trichlorofluoromethane	<0.001	ppm
12/6/2022	Vinyl Chloride	<0.001	ppm

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2022	(m & p) Xylene	<0.002	ppm
1/4/2022	(o) Xylene	<0.001	ppm
1/4/2022	1,1,1-Trichloroethane	<0.001	ppm
1/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/4/2022	1,1,2-Trichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethene	<0.001	ppm
1/4/2022	1,2-Dichlorobenzene	<0.001	ppm
1/4/2022	1,2-Dichloroethane	<0.001	ppm
1/4/2022	1,2-Dichloropropane	<0.001	ppm
1/4/2022	1,3-Dichlorobenzene	<0.001	ppm
1/4/2022	1,4-Dichlorobenzene	<0.001	ppm
1/4/2022	2-Chloroethylvinylether	<0.001	ppm
1/4/2022	Acetone	0.0857	ppm
1/4/2022	Acrolein	<0.001	ppm
1/4/2022	Acrylonitrile	<0.001	ppm
1/4/2022	Benzene	<0.001	ppm
1/4/2022	Bromodichloromethane	<0.001	ppm
1/4/2022	Bromoform	<0.001	ppm
1/4/2022	Bromomethane	<0.002	ppm
1/4/2022	Carbon Tetrachloride	<0.001	ppm
1/4/2022	Chlorobenzene	<0.001	ppm
1/4/2022	Chloroethane	<0.001	ppm
1/4/2022	Chloroform	0.00206	ppm
1/4/2022	Chloromethane	<0.001	ppm
1/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Dibromochloromethane	<0.001	ppm
1/4/2022	Ethylbenzene	<0.001	ppm
1/4/2022	Methylene Chloride	<0.001	ppm
1/4/2022	Tetrachloroethene	<0.001	ppm
1/4/2022	Toluene	0.00154	ppm
1/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
1/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Trichloroethene	<0.001	ppm
1/4/2022	Trichlorofluoromethane	<0.001	ppm
1/4/2022	Vinyl Chloride	<0.001	ppm
2/8/2022	(m & p) Xylene	<0.002	ppm
2/8/2022	(o) Xylene	<0.001	ppm
2/8/2022	1,1,1-Trichloroethane	<0.001	ppm
2/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/8/2022	1,1,2-Trichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethene	<0.001	ppm
2/8/2022	1,2-Dichlorobenzene	<0.001	ppm
2/8/2022	1,2-Dichloroethane	<0.001	ppm
2/8/2022	1,2-Dichloropropane	<0.001	ppm
2/8/2022	1,3-Dichlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
1/4/2022	(m & p) Xylene	<0.002	ppm
1/4/2022	(o) Xylene	<0.001	ppm
1/4/2022	1,1,1-Trichloroethane	<0.001	ppm
1/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/4/2022	1,1,2-Trichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethane	<0.001	ppm
1/4/2022	1,1-Dichloroethene	<0.001	ppm
1/4/2022	1,2-Dichlorobenzene	<0.001	ppm
1/4/2022	1,2-Dichloroethane	<0.001	ppm
1/4/2022	1,2-Dichloropropane	<0.001	ppm
1/4/2022	1,3-Dichlorobenzene	<0.001	ppm
1/4/2022	1,4-Dichlorobenzene	<0.001	ppm
1/4/2022	2-Chloroethylvinylether	<0.001	ppm
1/4/2022	Acetone	0.00120	ppm
1/4/2022	Acrolein	<0.001	ppm
1/4/2022	Acrylonitrile	<0.001	ppm
1/4/2022	Benzene	<0.001	ppm
1/4/2022	Bromodichloromethane	<0.001	ppm
1/4/2022	Bromoform	<0.001	ppm
1/4/2022	Bromomethane	<0.002	ppm
1/4/2022	Carbon Tetrachloride	<0.001	ppm
1/4/2022	Chlorobenzene	<0.001	ppm
1/4/2022	Chloroethane	<0.001	ppm
1/4/2022	Chloroform	<0.001	ppm
1/4/2022	Chloromethane	<0.001	ppm
1/4/2022	cis-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Dibromochloromethane	<0.001	ppm
1/4/2022	Ethylbenzene	<0.001	ppm
1/4/2022	Methylene Chloride	<0.001	ppm
1/4/2022	Tetrachloroethene	<0.001	ppm
1/4/2022	Toluene	<0.001	ppm
1/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
1/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
1/4/2022	Trichloroethene	<0.001	ppm
1/4/2022	Trichlorofluoromethane	<0.001	ppm
1/4/2022	Vinyl Chloride	<0.001	ppm
2/8/2022	(m & p) Xylene	<0.002	ppm
2/8/2022	(o) Xylene	<0.001	ppm
2/8/2022	1,1,1-Trichloroethane	<0.001	ppm
2/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/8/2022	1,1,2-Trichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethane	<0.001	ppm
2/8/2022	1,1-Dichloroethene	<0.001	ppm
2/8/2022	1,2-Dichlorobenzene	<0.001	ppm
2/8/2022	1,2-Dichloroethane	<0.001	ppm
2/8/2022	1,2-Dichloropropane	<0.001	ppm
2/8/2022	1,3-Dichlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2022	1,4-Dichlorobenzene	<0.001	ppm
2/8/2022	2-Chloroethylvinylether	<0.001	ppm
2/8/2022	Acetone	0.119	ppm
2/8/2022	Acrolein	<0.001	ppm
2/8/2022	Acrylonitrile	<0.001	ppm
2/8/2022	Benzene	<0.001	ppm
2/8/2022	Bromodichloromethane	<0.001	ppm
2/8/2022	Bromoform	<0.001	ppm
2/8/2022	Bromomethane	<0.002	ppm
2/8/2022	Carbon Tetrachloride	<0.001	ppm
2/8/2022	Chlorobenzene	<0.001	ppm
2/8/2022	Chloroethane	<0.001	ppm
2/8/2022	Chloroform	0.00323	ppm
2/8/2022	Chloromethane	0.00103	ppm
2/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Dibromochloromethane	<0.001	ppm
2/8/2022	Ethylbenzene	<0.001	ppm
2/8/2022	Methylene Chloride	<0.001	ppm
2/8/2022	Tetrachloroethene	0.00111	ppm
2/8/2022	Toluene	<0.001	ppm
2/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
2/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Trichloroethene	<0.001	ppm
2/8/2022	Trichlorofluoromethane	<0.001	ppm
2/8/2022	Vinyl Chloride	<0.001	ppm
3/8/2022	(m & p) Xylene	<0.002	ppm
3/8/2022	(o) Xylene	<0.001	ppm
3/8/2022	1,1,1-Trichloroethane	<0.001	ppm
3/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/8/2022	1,1,2-Trichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethene	<0.001	ppm
3/8/2022	1,2-Dichlorobenzene	<0.001	ppm
3/8/2022	1,2-Dichloroethane	<0.001	ppm
3/8/2022	1,2-Dichloropropane	<0.001	ppm
3/8/2022	1,3-Dichlorobenzene	<0.001	ppm
3/8/2022	1,4-Dichlorobenzene	<0.001	ppm
3/8/2022	2-Chloroethylvinylether	<0.001	ppm
3/8/2022	Acetone	0.0733	ppm
3/8/2022	Acrolein	<0.001	ppm
3/8/2022	Acrylonitrile	<0.001	ppm
3/8/2022	Benzene	<0.001	ppm
3/8/2022	Bromodichloromethane	<0.001	ppm
3/8/2022	Bromoform	<0.001	ppm
3/8/2022	Bromomethane	<0.002	ppm
3/8/2022	Carbon Tetrachloride	<0.001	ppm
3/8/2022	Chlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
2/8/2022	1,4-Dichlorobenzene	<0.001	ppm
2/8/2022	2-Chloroethylvinylether	<0.001	ppm
2/8/2022	Acetone	<0.001	ppm
2/8/2022	Acrolein	<0.001	ppm
2/8/2022	Acrylonitrile	<0.001	ppm
2/8/2022	Benzene	<0.001	ppm
2/8/2022	Bromodichloromethane	<0.001	ppm
2/8/2022	Bromoform	<0.001	ppm
2/8/2022	Bromomethane	<0.002	ppm
2/8/2022	Carbon Tetrachloride	<0.001	ppm
2/8/2022	Chlorobenzene	<0.001	ppm
2/8/2022	Chloroethane	<0.001	ppm
2/8/2022	Chloroform	<0.001	ppm
2/8/2022	Chloromethane	<0.001	ppm
2/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Dibromochloromethane	<0.001	ppm
2/8/2022	Ethylbenzene	<0.001	ppm
2/8/2022	Methylene Chloride	<0.001	ppm
2/8/2022	Tetrachloroethene	<0.001	ppm
2/8/2022	Toluene	<0.001	ppm
2/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
2/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
2/8/2022	Trichloroethene	<0.001	ppm
2/8/2022	Trichlorofluoromethane	<0.001	ppm
2/8/2022	Vinyl Chloride	<0.001	ppm
3/8/2022	(m & p) Xylene	<0.002	ppm
3/8/2022	(o) Xylene	<0.001	ppm
3/8/2022	1,1,1-Trichloroethane	<0.001	ppm
3/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/8/2022	1,1,2-Trichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethane	<0.001	ppm
3/8/2022	1,1-Dichloroethene	<0.001	ppm
3/8/2022	1,2-Dichlorobenzene	<0.001	ppm
3/8/2022	1,2-Dichloroethane	<0.001	ppm
3/8/2022	1,2-Dichloropropane	<0.001	ppm
3/8/2022	1,3-Dichlorobenzene	<0.001	ppm
3/8/2022	1,4-Dichlorobenzene	<0.001	ppm
3/8/2022	2-Chloroethylvinylether	<0.001	ppm
3/8/2022	Acetone	0.00202	ppm
3/8/2022	Acrolein	<0.001	ppm
3/8/2022	Acrylonitrile	<0.001	ppm
3/8/2022	Benzene	<0.001	ppm
3/8/2022	Bromodichloromethane	<0.001	ppm
3/8/2022	Bromoform	<0.001	ppm
3/8/2022	Bromomethane	<0.002	ppm
3/8/2022	Carbon Tetrachloride	<0.001	ppm
3/8/2022	Chlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
3/8/2022	Chloroethane	<0.001	ppm
3/8/2022	Chloroform	0.00263	ppm
3/8/2022	Chloromethane	<0.001	ppm
3/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Dibromochloromethane	<0.001	ppm
3/8/2022	Ethylbenzene	<0.001	ppm
3/8/2022	Methylene Chloride	<0.001	ppm
3/8/2022	Tetrachloroethene	<0.001	ppm
3/8/2022	Toluene	<0.001	ppm
3/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
3/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Trichloroethene	<0.001	ppm
3/8/2022	Trichlorofluoromethane	<0.001	ppm
3/8/2022	Vinyl Chloride	<0.001	ppm
4/5/2022	(m & p) Xylene	<0.002	ppm
4/5/2022	(o) Xylene	<0.001	ppm
4/5/2022	1,1,1-Trichloroethane	<0.001	ppm
4/5/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
4/5/2022	1,1,2-Trichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethene	<0.001	ppm
4/5/2022	1,2-Dichlorobenzene	<0.001	ppm
4/5/2022	1,2-Dichloroethane	<0.001	ppm
4/5/2022	1,2-Dichloropropane	<0.001	ppm
4/5/2022	1,3-Dichlorobenzene	<0.001	ppm
4/5/2022	1,4-Dichlorobenzene	<0.001	ppm
4/5/2022	2-Chloroethylvinylether	<0.001	ppm
4/5/2022	Acetone	0.108	ppm
4/5/2022	Acrolein	<0.001	ppm
4/5/2022	Acrylonitrile	<0.001	ppm
4/5/2022	Benzene	<0.001	ppm
4/5/2022	Bromodichloromethane	<0.001	ppm
4/5/2022	Bromoform	<0.001	ppm
4/5/2022	Bromomethane	<0.002	ppm
4/5/2022	Carbon Tetrachloride	<0.001	ppm
4/5/2022	Chlorobenzene	<0.001	ppm
4/5/2022	Chloroethane	<0.001	ppm
4/5/2022	Chloroform	0.00246	ppm
4/5/2022	Chloromethane	<0.001	ppm
4/5/2022	cis-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Dibromochloromethane	<0.001	ppm
4/5/2022	Ethylbenzene	<0.001	ppm
4/5/2022	Methylene Chloride	<0.001	ppm
4/5/2022	Tetrachloroethene	<0.001	ppm
4/5/2022	Toluene	0.00127	ppm
4/5/2022	trans-1,2-Dichloroethene	<0.001	ppm
4/5/2022	trans-1,3-Dichloropropene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
3/8/2022	Chloroethane	<0.001	ppm
3/8/2022	Chloroform	<0.001	ppm
3/8/2022	Chloromethane	<0.001	ppm
3/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Dibromochloromethane	<0.001	ppm
3/8/2022	Ethylbenzene	<0.001	ppm
3/8/2022	Methylene Chloride	<0.001	ppm
3/8/2022	Tetrachloroethene	<0.001	ppm
3/8/2022	Toluene	<0.001	ppm
3/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
3/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
3/8/2022	Trichloroethene	<0.001	ppm
3/8/2022	Trichlorofluoromethane	<0.001	ppm
3/8/2022	Vinyl Chloride	<0.001	ppm
4/5/2022	(m & p) Xylene	<0.002	ppm
4/5/2022	(o) Xylene	<0.001	ppm
4/5/2022	1,1,1-Trichloroethane	<0.001	ppm
4/5/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
4/5/2022	1,1,2-Trichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethane	<0.001	ppm
4/5/2022	1,1-Dichloroethene	<0.001	ppm
4/5/2022	1,2-Dichlorobenzene	<0.001	ppm
4/5/2022	1,2-Dichloroethane	<0.001	ppm
4/5/2022	1,2-Dichloropropane	<0.001	ppm
4/5/2022	1,3-Dichlorobenzene	<0.001	ppm
4/5/2022	1,4-Dichlorobenzene	<0.001	ppm
4/5/2022	2-Chloroethylvinylether	<0.001	ppm
4/5/2022	Acetone	0.00300	ppm
4/5/2022	Acrolein	<0.001	ppm
4/5/2022	Acrylonitrile	<0.001	ppm
4/5/2022	Benzene	<0.001	ppm
4/5/2022	Bromodichloromethane	<0.001	ppm
4/5/2022	Bromoform	<0.001	ppm
4/5/2022	Bromomethane	<0.002	ppm
4/5/2022	Carbon Tetrachloride	<0.001	ppm
4/5/2022	Chlorobenzene	<0.001	ppm
4/5/2022	Chloroethane	<0.001	ppm
4/5/2022	Chloroform	<0.001	ppm
4/5/2022	Chloromethane	<0.001	ppm
4/5/2022	cis-1,3-Dichloropropene	<0.001	ppm
4/5/2022	Dibromochloromethane	<0.001	ppm
4/5/2022	Ethylbenzene	<0.001	ppm
4/5/2022	Methylene Chloride	<0.001	ppm
4/5/2022	Tetrachloroethene	<0.001	ppm
4/5/2022	Toluene	<0.001	ppm
4/5/2022	trans-1,2-Dichloroethene	<0.001	ppm
4/5/2022	trans-1,3-Dichloropropene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2022	Trichloroethene	<0.001	ppm
4/5/2022	Trichlorofluoromethane	<0.001	ppm
4/5/2022	Vinyl Chloride	<0.001	ppm
5/3/2022	(m & p) Xylene	<0.002	ppm
5/3/2022	(o) Xylene	<0.001	ppm
5/3/2022	1,1,1-Trichloroethane	<0.001	ppm
5/3/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/3/2022	1,1,2-Trichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethene	<0.001	ppm
5/3/2022	1,2-Dichlorobenzene	<0.001	ppm
5/3/2022	1,2-Dichloroethane	<0.001	ppm
5/3/2022	1,2-Dichloropropane	<0.001	ppm
5/3/2022	1,3-Dichlorobenzene	<0.001	ppm
5/3/2022	1,4-Dichlorobenzene	<0.001	ppm
5/3/2022	2-Chloroethylvinylether	<0.001	ppm
5/3/2022	Acetone	0.0962	ppm
5/3/2022	Acrolein	<0.001	ppm
5/3/2022	Acrylonitrile	<0.001	ppm
5/3/2022	Benzene	<0.001	ppm
5/3/2022	Bromodichloromethane	<0.001	ppm
5/3/2022	Bromoform	<0.001	ppm
5/3/2022	Bromomethane	<0.002	ppm
5/3/2022	Carbon Tetrachloride	<0.001	ppm
5/3/2022	Chlorobenzene	<0.001	ppm
5/3/2022	Chloroethane	<0.001	ppm
5/3/2022	Chloroform	0.00216	ppm
5/3/2022	Chloromethane	<0.001	ppm
5/3/2022	cis-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Dibromochloromethane	<0.001	ppm
5/3/2022	Ethylbenzene	<0.001	ppm
5/3/2022	Methylene Chloride	<0.001	ppm
5/3/2022	Tetrachloroethene	0.00107	ppm
5/3/2022	Toluene	0.00203	ppm
5/3/2022	trans-1,2-Dichloroethene	<0.001	ppm
5/3/2022	trans-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Trichloroethene	<0.001	ppm
5/3/2022	Trichlorofluoromethane	<0.001	ppm
5/3/2022	Vinyl Chloride	<0.001	ppm
6/7/2022	(m & p) Xylene	<0.002	ppm
6/7/2022	(o) Xylene	<0.001	ppm
6/7/2022	1,1,1-Trichloroethane	<0.001	ppm
6/7/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/7/2022	1,1,2-Trichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethene	<0.001	ppm
6/7/2022	1,2-Dichlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
4/5/2022	Trichloroethene	<0.001	ppm
4/5/2022	Trichlorofluoromethane	<0.001	ppm
4/5/2022	Vinyl Chloride	<0.001	ppm
5/3/2022	(m & p) Xylene	<0.002	ppm
5/3/2022	(o) Xylene	<0.001	ppm
5/3/2022	1,1,1-Trichloroethane	<0.001	ppm
5/3/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/3/2022	1,1,2-Trichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethane	<0.001	ppm
5/3/2022	1,1-Dichloroethene	<0.001	ppm
5/3/2022	1,2-Dichlorobenzene	<0.001	ppm
5/3/2022	1,2-Dichloroethane	<0.001	ppm
5/3/2022	1,2-Dichloropropane	<0.001	ppm
5/3/2022	1,3-Dichlorobenzene	<0.001	ppm
5/3/2022	1,4-Dichlorobenzene	<0.001	ppm
5/3/2022	2-Chloroethylvinylether	<0.001	ppm
5/3/2022	Acetone	0.00150	ppm
5/3/2022	Acrolein	<0.001	ppm
5/3/2022	Acrylonitrile	<0.001	ppm
5/3/2022	Benzene	<0.001	ppm
5/3/2022	Bromodichloromethane	<0.001	ppm
5/3/2022	Bromoform	<0.001	ppm
5/3/2022	Bromomethane	<0.002	ppm
5/3/2022	Carbon Tetrachloride	<0.001	ppm
5/3/2022	Chlorobenzene	<0.001	ppm
5/3/2022	Chloroethane	<0.001	ppm
5/3/2022	Chloroform	<0.001	ppm
5/3/2022	Chloromethane	<0.001	ppm
5/3/2022	cis-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Dibromochloromethane	<0.001	ppm
5/3/2022	Ethylbenzene	<0.001	ppm
5/3/2022	Methylene Chloride	<0.001	ppm
5/3/2022	Tetrachloroethene	<0.001	ppm
5/3/2022	Toluene	<0.001	ppm
5/3/2022	trans-1,2-Dichloroethene	<0.001	ppm
5/3/2022	trans-1,3-Dichloropropene	<0.001	ppm
5/3/2022	Trichloroethene	<0.001	ppm
5/3/2022	Trichlorofluoromethane	<0.001	ppm
5/3/2022	Vinyl Chloride	<0.001	ppm
6/7/2022	(m & p) Xylene	<0.002	ppm
6/7/2022	(o) Xylene	<0.001	ppm
6/7/2022	1,1,1-Trichloroethane	<0.001	ppm
6/7/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/7/2022	1,1,2-Trichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethane	<0.001	ppm
6/7/2022	1,1-Dichloroethene	<0.001	ppm
6/7/2022	1,2-Dichlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
6/7/2022	1,2-Dichloroethane	<0.001	ppm
6/7/2022	1,2-Dichloropropane	<0.001	ppm
6/7/2022	1,3-Dichlorobenzene	<0.001	ppm
6/7/2022	1,4-Dichlorobenzene	<0.001	ppm
6/7/2022	2-Chloroethylvinylether	<0.001	ppm
6/7/2022	Acetone	0.112	ppm
6/7/2022	Acrolein	<0.001	ppm
6/7/2022	Acrylonitrile	<0.001	ppm
6/7/2022	Benzene	<0.001	ppm
6/7/2022	Bromodichloromethane	<0.001	ppm
6/7/2022	Bromoform	<0.001	ppm
6/7/2022	Bromomethane	<0.002	ppm
6/7/2022	Carbon Tetrachloride	<0.001	ppm
6/7/2022	Chlorobenzene	<0.001	ppm
6/7/2022	Chloroethane	<0.001	ppm
6/7/2022	Chloroform	0.00323	ppm
6/7/2022	Chloromethane	<0.001	ppm
6/7/2022	cis-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Dibromochloromethane	<0.001	ppm
6/7/2022	Ethylbenzene	<0.001	ppm
6/7/2022	Methylene Chloride	<0.001	ppm
6/7/2022	Tetrachloroethene	<0.001	ppm
6/7/2022	Toluene	0.00767	ppm
6/7/2022	trans-1,2-Dichloroethene	<0.001	ppm
6/7/2022	trans-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Trichloroethene	<0.001	ppm
6/7/2022	Trichlorofluoromethane	<0.001	ppm
6/7/2022	Vinyl Chloride	<0.001	ppm
7/12/2022	(m & p) Xylene	<0.002	ppm
7/12/2022	(o) Xylene	<0.001	ppm
7/12/2022	1,1,1-Trichloroethane	<0.001	ppm
7/12/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/12/2022	1,1,2-Trichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethene	<0.001	ppm
7/12/2022	1,2-Dichlorobenzene	<0.001	ppm
7/12/2022	1,2-Dichloroethane	<0.001	ppm
7/12/2022	1,2-Dichloropropane	<0.001	ppm
7/12/2022	1,3-Dichlorobenzene	<0.001	ppm
7/12/2022	1,4-Dichlorobenzene	<0.001	ppm
7/12/2022	2-Chloroethylvinylether	<0.001	ppm
7/12/2022	Acetone	0.0538	ppm
7/12/2022	Acrolein	<0.001	ppm
7/12/2022	Acrylonitrile	<0.001	ppm
7/12/2022	Benzene	<0.001	ppm
7/12/2022	Bromodichloromethane	<0.001	ppm
7/12/2022	Bromoform	<0.001	ppm
7/12/2022	Bromomethane	<0.002	ppm
7/12/2022	Carbon Tetrachloride	<0.001	ppm
7/12/2022	Chlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
6/7/2022	1,2-Dichloroethane	<0.001	ppm
6/7/2022	1,2-Dichloropropane	<0.001	ppm
6/7/2022	1,3-Dichlorobenzene	<0.001	ppm
6/7/2022	1,4-Dichlorobenzene	<0.001	ppm
6/7/2022	2-Chloroethylvinylether	<0.001	ppm
6/7/2022	Acetone	0.00118	ppm
6/7/2022	Acrolein	<0.001	ppm
6/7/2022	Acrylonitrile	<0.001	ppm
6/7/2022	Benzene	<0.001	ppm
6/7/2022	Bromodichloromethane	<0.001	ppm
6/7/2022	Bromoform	<0.001	ppm
6/7/2022	Bromomethane	<0.002	ppm
6/7/2022	Carbon Tetrachloride	<0.001	ppm
6/7/2022	Chlorobenzene	<0.001	ppm
6/7/2022	Chloroethane	<0.001	ppm
6/7/2022	Chloroform	<0.001	ppm
6/7/2022	Chloromethane	<0.001	ppm
6/7/2022	cis-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Dibromochloromethane	<0.001	ppm
6/7/2022	Ethylbenzene	<0.001	ppm
6/7/2022	Methylene Chloride	<0.001	ppm
6/7/2022	Tetrachloroethene	<0.001	ppm
6/7/2022	Toluene	0.00149	ppm
6/7/2022	trans-1,2-Dichloroethene	<0.001	ppm
6/7/2022	trans-1,3-Dichloropropene	<0.001	ppm
6/7/2022	Trichloroethene	<0.001	ppm
6/7/2022	Trichlorofluoromethane	<0.001	ppm
6/7/2022	Vinyl Chloride	<0.001	ppm
7/12/2022	(m & p) Xylene	<0.002	ppm
7/12/2022	(o) Xylene	<0.001	ppm
7/12/2022	1,1,1-Trichloroethane	<0.001	ppm
7/12/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/12/2022	1,1,2-Trichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethane	<0.001	ppm
7/12/2022	1,1-Dichloroethene	<0.001	ppm
7/12/2022	1,2-Dichlorobenzene	<0.001	ppm
7/12/2022	1,2-Dichloroethane	<0.001	ppm
7/12/2022	1,2-Dichloropropane	<0.001	ppm
7/12/2022	1,3-Dichlorobenzene	<0.001	ppm
7/12/2022	1,4-Dichlorobenzene	<0.001	ppm
7/12/2022	2-Chloroethylvinylether	<0.001	ppm
7/12/2022	Acetone	0.00188	ppm
7/12/2022	Acrolein	<0.001	ppm
7/12/2022	Acrylonitrile	<0.001	ppm
7/12/2022	Benzene	<0.001	ppm
7/12/2022	Bromodichloromethane	<0.001	ppm
7/12/2022	Bromoform	<0.001	ppm
7/12/2022	Bromomethane	<0.002	ppm
7/12/2022	Carbon Tetrachloride	<0.001	ppm
7/12/2022	Chlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2022	Chloroethane	<0.001	ppm
7/12/2022	Chloroform	0.00227	ppm
7/12/2022	Chloromethane	<0.001	ppm
7/12/2022	cis-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Dibromochloromethane	<0.001	ppm
7/12/2022	Ethylbenzene	<0.001	ppm
7/12/2022	Methylene Chloride	<0.001	ppm
7/12/2022	Tetrachloroethene	<0.001	ppm
7/12/2022	Toluene	0.00287	ppm
7/12/2022	trans-1,2-Dichloroethene	<0.001	ppm
7/12/2022	trans-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Trichloroethene	<0.001	ppm
7/12/2022	Trichlorofluoromethane	<0.001	ppm
7/12/2022	Vinyl Chloride	<0.001	ppm
8/2/2022	(m & p) Xylene	<0.002	ppm
8/2/2022	(o) Xylene	<0.001	ppm
8/2/2022	1,1,1-Trichloroethane	<0.001	ppm
8/2/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/2/2022	1,1,2-Trichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethene	<0.001	ppm
8/2/2022	1,2-Dichlorobenzene	<0.001	ppm
8/2/2022	1,2-Dichloroethane	<0.001	ppm
8/2/2022	1,2-Dichloropropane	<0.001	ppm
8/2/2022	1,3-Dichlorobenzene	<0.001	ppm
8/2/2022	1,4-Dichlorobenzene	<0.001	ppm
8/2/2022	2-Chloroethylvinylether	<0.001	ppm
8/2/2022	Acetone	0.158	ppm
8/2/2022	Acrolein	<0.001	ppm
8/2/2022	Acrylonitrile	<0.001	ppm
8/2/2022	Benzene	<0.001	ppm
8/2/2022	Bromodichloromethane	<0.001	ppm
8/2/2022	Bromoform	<0.001	ppm
8/2/2022	Bromomethane	<0.002	ppm
8/2/2022	Carbon Tetrachloride	<0.001	ppm
8/2/2022	Chlorobenzene	<0.001	ppm
8/2/2022	Chloroethane	<0.001	ppm
8/2/2022	Chloroform	0.00229	ppm
8/2/2022	Chloromethane	<0.001	ppm
8/2/2022	cis-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Dibromochloromethane	<0.001	ppm
8/2/2022	Ethylbenzene	<0.001	ppm
8/2/2022	Methylene Chloride	<0.001	ppm
8/2/2022	Tetrachloroethene	<0.001	ppm
8/2/2022	Toluene	0.00237	ppm
8/2/2022	trans-1,2-Dichloroethene	<0.001	ppm
8/2/2022	trans-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Trichloroethene	<0.001	ppm
8/2/2022	Trichlorofluoromethane	<0.001	ppm
8/2/2022	Vinyl Chloride	<0.001	ppm
9/13/2022	(m & p) Xylene	<0.002	ppm
9/13/2022	(o) Xylene	<0.001	ppm
9/13/2022	1,1,1-Trichloroethane	<0.001	ppm
9/13/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/13/2022	1,1,2-Trichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethane	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
7/12/2022	Chloroethane	<0.001	ppm
7/12/2022	Chloroform	<0.001	ppm
7/12/2022	Chloromethane	<0.001	ppm
7/12/2022	cis-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Dibromochloromethane	<0.001	ppm
7/12/2022	Ethylbenzene	<0.001	ppm
7/12/2022	Methylene Chloride	<0.001	ppm
7/12/2022	Tetrachloroethene	<0.001	ppm
7/12/2022	Toluene	0.00137	ppm
7/12/2022	trans-1,2-Dichloroethene	<0.001	ppm
7/12/2022	trans-1,3-Dichloropropene	<0.001	ppm
7/12/2022	Trichloroethene	<0.001	ppm
7/12/2022	Trichlorofluoromethane	<0.001	ppm
7/12/2022	Vinyl Chloride	<0.001	ppm
8/2/2022	(m & p) Xylene	<0.002	ppm
8/2/2022	(o) Xylene	<0.001	ppm
8/2/2022	1,1,1-Trichloroethane	<0.001	ppm
8/2/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/2/2022	1,1,2-Trichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethane	<0.001	ppm
8/2/2022	1,1-Dichloroethene	<0.001	ppm
8/2/2022	1,2-Dichlorobenzene	<0.001	ppm
8/2/2022	1,2-Dichloroethane	<0.001	ppm
8/2/2022	1,2-Dichloropropane	<0.001	ppm
8/2/2022	1,3-Dichlorobenzene	<0.001	ppm
8/2/2022	1,4-Dichlorobenzene	<0.001	ppm
8/2/2022	2-Chloroethylvinylether	<0.001	ppm
8/2/2022	Acetone	0.00180	ppm
8/2/2022	Acrolein	<0.001	ppm
8/2/2022	Acrylonitrile	<0.001	ppm
8/2/2022	Benzene	<0.001	ppm
8/2/2022	Bromodichloromethane	<0.001	ppm
8/2/2022	Bromoform	<0.001	ppm
8/2/2022	Bromomethane	<0.002	ppm
8/2/2022	Carbon Tetrachloride	<0.001	ppm
8/2/2022	Chlorobenzene	<0.001	ppm
8/2/2022	Chloroethane	<0.001	ppm
8/2/2022	Chloroform	<0.001	ppm
8/2/2022	Chloromethane	<0.001	ppm
8/2/2022	cis-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Dibromochloromethane	<0.001	ppm
8/2/2022	Ethylbenzene	<0.001	ppm
8/2/2022	Methylene Chloride	<0.001	ppm
8/2/2022	Tetrachloroethene	<0.001	ppm
8/2/2022	Toluene	<0.001	ppm
8/2/2022	trans-1,2-Dichloroethene	<0.001	ppm
8/2/2022	trans-1,3-Dichloropropene	<0.001	ppm
8/2/2022	Trichloroethene	<0.001	ppm
8/2/2022	Trichlorofluoromethane	<0.001	ppm
8/2/2022	Vinyl Chloride	<0.001	ppm
9/13/2022	(m & p) Xylene	<0.002	ppm
9/13/2022	(o) Xylene	<0.001	ppm
9/13/2022	1,1,1-Trichloroethane	<0.001	ppm
9/13/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/13/2022	1,1,2-Trichloroethane	<0.001	ppm
9/13/2022	1,1-Dichloroethane	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
9/13/2022	1,1-Dichloroethene	<0.001	ppm
9/13/2022	1,2-Dichlorobenzene	<0.001	ppm
9/13/2022	1,2-Dichloroethane	<0.001	ppm
9/13/2022	1,2-Dichloropropane	<0.001	ppm
9/13/2022	1,3-Dichlorobenzene	<0.001	ppm
9/13/2022	1,4-Dichlorobenzene	<0.001	ppm
9/13/2022	2-Chloroethylvinylether	<0.001	ppm
9/13/2022	Acetone	0.0830	ppm
9/13/2022	Acrolein	<0.001	ppm
9/13/2022	Acrylonitrile	<0.001	ppm
9/13/2022	Benzene	<0.001	ppm
9/13/2022	Bromodichloromethane	<0.001	ppm
9/13/2022	Bromoform	<0.001	ppm
9/13/2022	Bromomethane	<0.002	ppm
9/13/2022	Carbon Tetrachloride	<0.001	ppm
9/13/2022	Chlorobenzene	<0.001	ppm
9/13/2022	Chloroethane	<0.001	ppm
9/13/2022	Chloroform	0.00225	ppm
9/13/2022	Chloromethane	<0.001	ppm
9/13/2022	cis-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Dibromochloromethane	<0.001	ppm
9/13/2022	Ethylbenzene	<0.001	ppm
9/13/2022	Methylene Chloride	<0.001	ppm
9/13/2022	Tetrachloroethene	<0.001	ppm
9/13/2022	Toluene	0.00144	ppm
9/13/2022	trans-1,2-Dichloroethene	<0.001	ppm
9/13/2022	trans-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Trichloroethene	<0.001	ppm
9/13/2022	Trichlorofluoromethane	<0.001	ppm
9/13/2022	Vinyl Chloride	<0.001	ppm
10/4/2022	(m & p) Xylene	<0.002	ppm
10/4/2022	(o) Xylene	<0.001	ppm
10/4/2022	1,1,1-Trichloroethane	<0.001	ppm
10/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/4/2022	1,1,2-Trichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethene	<0.001	ppm
10/4/2022	1,2-Dichlorobenzene	<0.001	ppm
10/4/2022	1,2-Dichloroethane	<0.001	ppm
10/4/2022	1,2-Dichloropropane	<0.001	ppm
10/4/2022	1,3-Dichlorobenzene	<0.001	ppm
10/4/2022	1,4-Dichlorobenzene	<0.001	ppm
10/4/2022	2-Chloroethylvinylether	<0.001	ppm
10/4/2022	Acetone	0.144	ppm
10/4/2022	Acrolein	<0.001	ppm
10/4/2022	Acrylonitrile	<0.001	ppm
10/4/2022	Benzene	<0.001	ppm
10/4/2022	Bromodichloromethane	<0.001	ppm
10/4/2022	Bromoform	<0.001	ppm
10/4/2022	Bromomethane	<0.002	ppm
10/4/2022	Carbon Tetrachloride	<0.001	ppm
10/4/2022	Chlorobenzene	<0.001	ppm
10/4/2022	Chloroethane	<0.001	ppm
10/4/2022	Chloroform	0.00177	ppm
10/4/2022	Chloromethane	<0.001	ppm
10/4/2022	cis-1,3-Dichloropropene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
9/13/2022	1,1-Dichloroethene	<0.001	ppm
9/13/2022	1,2-Dichlorobenzene	<0.001	ppm
9/13/2022	1,2-Dichloroethane	<0.001	ppm
9/13/2022	1,2-Dichloropropane	<0.001	ppm
9/13/2022	1,3-Dichlorobenzene	<0.001	ppm
9/13/2022	1,4-Dichlorobenzene	<0.001	ppm
9/13/2022	2-Chloroethylvinylether	<0.001	ppm
9/13/2022	Acetone	0.00322	ppm
9/13/2022	Acrolein	<0.001	ppm
9/13/2022	Acrylonitrile	<0.001	ppm
9/13/2022	Benzene	<0.001	ppm
9/13/2022	Bromodichloromethane	<0.001	ppm
9/13/2022	Bromoform	<0.001	ppm
9/13/2022	Bromomethane	<0.002	ppm
9/13/2022	Carbon Tetrachloride	<0.001	ppm
9/13/2022	Chlorobenzene	<0.001	ppm
9/13/2022	Chloroethane	<0.001	ppm
9/13/2022	Chloroform	<0.001	ppm
9/13/2022	Chloromethane	<0.001	ppm
9/13/2022	cis-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Dibromochloromethane	<0.001	ppm
9/13/2022	Ethylbenzene	<0.001	ppm
9/13/2022	Methylene Chloride	<0.001	ppm
9/13/2022	Tetrachloroethene	<0.001	ppm
9/13/2022	Toluene	<0.001	ppm
9/13/2022	trans-1,2-Dichloroethene	<0.001	ppm
9/13/2022	trans-1,3-Dichloropropene	<0.001	ppm
9/13/2022	Trichloroethene	<0.001	ppm
9/13/2022	Trichlorofluoromethane	<0.001	ppm
9/13/2022	Vinyl Chloride	<0.001	ppm
10/4/2022	(m & p) Xylene	<0.002	ppm
10/4/2022	(o) Xylene	<0.001	ppm
10/4/2022	1,1,1-Trichloroethane	<0.001	ppm
10/4/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/4/2022	1,1,2-Trichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethane	<0.001	ppm
10/4/2022	1,1-Dichloroethene	<0.001	ppm
10/4/2022	1,2-Dichlorobenzene	<0.001	ppm
10/4/2022	1,2-Dichloroethane	<0.001	ppm
10/4/2022	1,2-Dichloropropane	<0.001	ppm
10/4/2022	1,3-Dichlorobenzene	<0.001	ppm
10/4/2022	1,4-Dichlorobenzene	<0.001	ppm
10/4/2022	2-Chloroethylvinylether	<0.001	ppm
10/4/2022	Acetone	0.00415	ppm
10/4/2022	Acrolein	<0.001	ppm
10/4/2022	Acrylonitrile	<0.001	ppm
10/4/2022	Benzene	<0.001	ppm
10/4/2022	Bromodichloromethane	<0.001	ppm
10/4/2022	Bromoform	<0.001	ppm
10/4/2022	Bromomethane	<0.002	ppm
10/4/2022	Carbon Tetrachloride	<0.001	ppm
10/4/2022	Chlorobenzene	<0.001	ppm
10/4/2022	Chloroethane	<0.001	ppm
10/4/2022	Chloroform	<0.001	ppm
10/4/2022	Chloromethane	<0.001	ppm
10/4/2022	cis-1,3-Dichloropropene	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
10/4/2022	Dibromochloromethane	<0.001	ppm
10/4/2022	Ethylbenzene	<0.001	ppm
10/4/2022	Methylene Chloride	<0.001	ppm
10/4/2022	Tetrachloroethene	<0.001	ppm
10/4/2022	Toluene	0.00382	ppm
10/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
10/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Trichloroethene	<0.001	ppm
10/4/2022	Trichlorofluoromethane	<0.001	ppm
10/4/2022	Vinyl Chloride	<0.001	ppm
11/8/2022	(m & p) Xylene	0.0126	ppm
11/8/2022	(o) Xylene	0.00695	ppm
11/8/2022	1,1,1-Trichloroethane	<0.001	ppm
11/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/8/2022	1,1,2-Trichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethene	<0.001	ppm
11/8/2022	1,2-Dichlorobenzene	<0.001	ppm
11/8/2022	1,2-Dichloroethane	<0.001	ppm
11/8/2022	1,2-Dichloropropane	<0.001	ppm
11/8/2022	1,3-Dichlorobenzene	<0.001	ppm
11/8/2022	1,4-Dichlorobenzene	<0.001	ppm
11/8/2022	2-Chloroethylvinylether	<0.001	ppm
11/8/2022	Acetone	0.105	ppm
11/8/2022	Acrolein	<0.001	ppm
11/8/2022	Acrylonitrile	<0.001	ppm
11/8/2022	Benzene	<0.001	ppm
11/8/2022	Bromodichloromethane	<0.001	ppm
11/8/2022	Bromoform	<0.001	ppm
11/8/2022	Bromomethane	<0.002	ppm
11/8/2022	Carbon Tetrachloride	<0.001	ppm
11/8/2022	Chlorobenzene	<0.001	ppm
11/8/2022	Chloroethane	<0.001	ppm
11/8/2022	Chloroform	0.00170	ppm
11/8/2022	Chloromethane	<0.001	ppm
11/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Dibromochloromethane	<0.001	ppm
11/8/2022	Ethylbenzene	0.00325	ppm
11/8/2022	Methylene Chloride	<0.001	ppm
11/8/2022	Tetrachloroethene	<0.001	ppm
11/8/2022	Toluene	<0.001	ppm
11/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
11/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Trichloroethene	<0.001	ppm
11/8/2022	Trichlorofluoromethane	<0.001	ppm
11/8/2022	Vinyl Chloride	<0.001	ppm
12/6/2022	(m & p) Xylene	<0.002	ppm
12/6/2022	(o) Xylene	<0.001	ppm
12/6/2022	1,1,1-Trichloroethane	<0.001	ppm
12/6/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/6/2022	1,1,2-Trichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethene	<0.001	ppm
12/6/2022	1,2-Dichlorobenzene	<0.001	ppm
12/6/2022	1,2-Dichloroethane	<0.001	ppm
12/6/2022	1,2-Dichloropropane	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
10/4/2022	Dibromochloromethane	<0.001	ppm
10/4/2022	Ethylbenzene	<0.001	ppm
10/4/2022	Methylene Chloride	<0.001	ppm
10/4/2022	Tetrachloroethene	<0.001	ppm
10/4/2022	Toluene	<0.001	ppm
10/4/2022	trans-1,2-Dichloroethene	<0.001	ppm
10/4/2022	trans-1,3-Dichloropropene	<0.001	ppm
10/4/2022	Trichloroethene	<0.001	ppm
10/4/2022	Trichlorofluoromethane	<0.001	ppm
10/4/2022	Vinyl Chloride	<0.001	ppm
11/8/2022	(m & p) Xylene	<0.002	ppm
11/8/2022	(o) Xylene	<0.001	ppm
11/8/2022	1,1,1-Trichloroethane	<0.001	ppm
11/8/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/8/2022	1,1,2-Trichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethane	<0.001	ppm
11/8/2022	1,1-Dichloroethene	<0.001	ppm
11/8/2022	1,2-Dichlorobenzene	<0.001	ppm
11/8/2022	1,2-Dichloroethane	<0.001	ppm
11/8/2022	1,2-Dichloropropane	<0.001	ppm
11/8/2022	1,3-Dichlorobenzene	<0.001	ppm
11/8/2022	1,4-Dichlorobenzene	<0.001	ppm
11/8/2022	2-Chloroethylvinylether	<0.001	ppm
11/8/2022	Acetone	0.00207	ppm
11/8/2022	Acrolein	<0.001	ppm
11/8/2022	Acrylonitrile	<0.001	ppm
11/8/2022	Benzene	<0.001	ppm
11/8/2022	Bromodichloromethane	<0.001	ppm
11/8/2022	Bromoform	<0.001	ppm
11/8/2022	Bromomethane	<0.002	ppm
11/8/2022	Carbon Tetrachloride	<0.001	ppm
11/8/2022	Chlorobenzene	<0.001	ppm
11/8/2022	Chloroethane	<0.001	ppm
11/8/2022	Chloroform	<0.001	ppm
11/8/2022	Chloromethane	<0.001	ppm
11/8/2022	cis-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Dibromochloromethane	<0.001	ppm
11/8/2022	Ethylbenzene	<0.001	ppm
11/8/2022	Methylene Chloride	<0.001	ppm
11/8/2022	Tetrachloroethene	<0.001	ppm
11/8/2022	Toluene	<0.001	ppm
11/8/2022	trans-1,2-Dichloroethene	<0.001	ppm
11/8/2022	trans-1,3-Dichloropropene	<0.001	ppm
11/8/2022	Trichloroethene	<0.001	ppm
11/8/2022	Trichlorofluoromethane	<0.001	ppm
11/8/2022	Vinyl Chloride	<0.001	ppm
12/6/2022	(m & p) Xylene	<0.002	ppm
12/6/2022	(o) Xylene	<0.001	ppm
12/6/2022	1,1,1-Trichloroethane	<0.001	ppm
12/6/2022	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/6/2022	1,1,2-Trichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethane	<0.001	ppm
12/6/2022	1,1-Dichloroethene	<0.001	ppm
12/6/2022	1,2-Dichlorobenzene	<0.001	ppm
12/6/2022	1,2-Dichloroethane	<0.001	ppm
12/6/2022	1,2-Dichloropropane	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

EPA VOC Data
Bucklin Point 2021

Bucklin Point Influent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
12/6/2022	1,3-Dichlorobenzene	<0.001	ppm
12/6/2022	1,4-Dichlorobenzene	<0.001	ppm
12/6/2022	2-Chloroethylvinylether	<0.001	ppm
12/6/2022	Acetone	0.133	ppm
12/6/2022	Acrolein	<0.001	ppm
12/6/2022	Acrylonitrile	<0.001	ppm
12/6/2022	Benzene	<0.001	ppm
12/6/2022	Bromodichloromethane	<0.001	ppm
12/6/2022	Bromoform	<0.001	ppm
12/6/2022	Bromomethane	<0.002	ppm
12/6/2022	Carbon Tetrachloride	<0.001	ppm
12/6/2022	Chlorobenzene	<0.001	ppm
12/6/2022	Chloroethane	<0.001	ppm
12/6/2022	Chloroform	0.00167	ppm
12/6/2022	Chloromethane	<0.001	ppm
12/6/2022	cis-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Dibromochloromethane	<0.001	ppm
12/6/2022	Ethylbenzene	<0.001	ppm
12/6/2022	Methylene Chloride	<0.001	ppm
12/6/2022	Tetrachloroethene	<0.001	ppm
12/6/2022	Toluene	0.00115	ppm
12/6/2022	trans-1,2-Dichloroethene	<0.001	ppm
12/6/2022	trans-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Trichloroethene	<0.001	ppm
12/6/2022	Trichlorofluoromethane	<0.001	ppm
12/6/2022	Vinyl Chloride	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	**Parameter**	**Result**	**Units**
12/6/2022	1,3-Dichlorobenzene	<0.001	ppm
12/6/2022	1,4-Dichlorobenzene	<0.001	ppm
12/6/2022	2-Chloroethylvinylether	<0.001	ppm
12/6/2022	Acetone	0.00116	ppm
12/6/2022	Acrolein	<0.001	ppm
12/6/2022	Acrylonitrile	<0.001	ppm
12/6/2022	Benzene	<0.001	ppm
12/6/2022	Bromodichloromethane	<0.001	ppm
12/6/2022	Bromoform	<0.001	ppm
12/6/2022	Bromomethane	<0.002	ppm
12/6/2022	Carbon Tetrachloride	<0.001	ppm
12/6/2022	Chlorobenzene	<0.001	ppm
12/6/2022	Chloroethane	<0.001	ppm
12/6/2022	Chloroform	<0.001	ppm
12/6/2022	Chloromethane	<0.001	ppm
12/6/2022	cis-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Dibromochloromethane	<0.001	ppm
12/6/2022	Ethylbenzene	<0.001	ppm
12/6/2022	Methylene Chloride	<0.001	ppm
12/6/2022	Tetrachloroethene	<0.001	ppm
12/6/2022	Toluene	<0.001	ppm
12/6/2022	trans-1,2-Dichloroethene	<0.001	ppm
12/6/2022	trans-1,3-Dichloropropene	<0.001	ppm
12/6/2022	Trichloroethene	<0.001	ppm
12/6/2022	Trichlorofluoromethane	<0.001	ppm
12/6/2022	Vinyl Chloride	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

Sanitary Manhole Sampling Data 2022

Date	Location	Al (ppb)	As (ppb)	BOD (mg/L)	CBOD (mg/L)	Cd (ppb)	Cr (ppb)	Cu (ppb)	CN (ppm)	Pb (ppb)	Hg (ppt)	Mo (ppb)	Ni (ppb)	Se (ppb)	Ag (ppb)	TSS (mg/L)	Zn (ppb)
1/5/2022	BS10	89.98	<5.000	162.65	159.43	<0.200	<3.000	34.68	<0.004	3.990	6.17	<3.000	<3.000	<10.000	<0.200	45.500	71.75
1/12/2022	FS14	166.9	<1.500	133.01	133.91	0.08879	1.160	47.24	<0.004	1.939	27.8	<0.900	1.751	<3.000	0.2015	101.00	98.79
1/26/2022	BS04	18.04	<0.500	54.02	61.21	<0.020	<0.300	2.902	<0.004	<0.300	2.05	<0.300	0.9001	<1.000	0.0792	16.250	14.7
2/9/2022	BS03	633.7	<0.500	585.44	607.87	0.1344	2.028	47.61	0.004	2.428	17.3	1.364	3.200	<1.000	0.2189	884.00	195.1
2/16/2022	FS34	219.0	<0.500	350.23	382.09	0.1692	1.366	17.70	0.00467	3.241	63.4	1.915	2.896	<1.000	0.1415	210.67	177.1
2/23/2022	BS19	56.95	<1.500	232.96	244.42	0.09652	<0.900	24.07	<0.004	<0.900	8.1	<0.900	1.272	<3.000	<0.060	65.333	60.94
3/2/2022	FS33	1993	3.232	3248.23	3480.97	0.5220	8.289	50.02	NA	29.75	NA	1.055	8.593	<3.000	0.2883	940.00	575.5
3/9/2022	BS24	259.5	<1.500	155.29	162.83	0.2232	1.342	47.55	<0.004	3.222	7.91	<0.900	2.578	<3.000	0.2040	156.00	78.53
3/16/2022	FS42	230.9	<0.500	426.11	430.80	0.1052	0.7018	14.92	<0.004	3.421	20.5	1.110	2.307	<1.000	0.09153	318.00	158.1
3/23/2022	BS02	215.8	0.5343	221.08	149.82	0.10430	0.9825	29.25	<0.004	5.655	133	0.7306	1.512	<1.000	0.7932	404.00	84.52
3/30/2022	FS37	499.2	0.9691	285.85	305.90	0.1363	2.226	27.97	<0.004	11.31	52.9	1.329	2.207	<1.000	0.08092	170.00	170.0
4/6/2022	BS26	541.4	0.5126	303.08	290.11	0.2226	1.462	61.33	<0.004	3.602	15.2	1.340	3.389	<1.000	0.02369	284.37	110.6
4/14/2022	FS34	114.0	<0.500	253.05	247.55	0.08526	3.271	10.41	0.00528	3.366	5.81	0.3005	4.402	<1.000	0.09431	276.00	42.58
4/27/2022	FS25	214.8	<0.500	228.89	194.93	0.1354	0.7928	11.48	<0.004	12.14	11.3	0.6713	1.469	<1.000	0.1792	236.00	126.1
5/4/2022	BS17	205.3	<0.500	100.78	101.83	0.1544	0.6287	15.42	<0.004	5.689	9.53	0.384	1.550	<1.000	0.02977	73.000	42.45
5/11/2022	FS41	623.7	<0.500	503.03	531.60	0.1504	2.051	20.01	<0.004	7.517	19.5	0.7835	2.931	<1.000	0.3748	256.00	125.1
5/18/2022	BS05	427.4	1.368	1041.38	1076.43	0.2087	3.398	50.11	<0.004	5.393	8.75	1.517	3.855	4.045	0.3107	1193.3	348.7
5/25/2022	FS05	32.21	<0.500	85.48	68.98	0.1039	0.3124	5.437	<0.004	0.7671	5.91	2.263	1.598	<1.000	0.1292	65.500	20.70
6/1/2022	BS14	448.2	1.820	10.63	5.80	0.5558	2.690	10.55	0.0113	12.50	4.5	<0.900	2.686	<3.000	<0.060	172.00	53.20
6/15/2022	FS17	108.5	1.800	245.90	257.81	0.06278	0.4139	13.09	0.0042	4.415	67.8	0.7798	3.063	<1.000	0.07219	58.500	68.36
7/27/2022	BS09	320.3	0.6251	295.69	366.48	0.1137	3.840	63.11	<0.004	5.554	33.1	1.047	14.09	<1.000	0.6057	120.00	134.6
8/3/2022	FS11	354.6	<0.500	457.47	632.28	0.2368	1.731	29.81	<0.008	13.54	16.80	1.248	4.149	<1.000	0.5595	314.00	391.9
9/7/2022	FS16	92.19	<0.500	249.75	241.26	0.06861	0.6449	9.716	<0.004	4.932	15.8	0.5739	1.655	4.519	0.06554	123.00	57.69
9/14/2022	BS04	198.6	<0.500	244.79	225.30	0.1167	1.031	9.302	<0.004	0.4688	8.92	0.6000	1.911	<1.000	0.1002	184.00	54.45
9/21/2022	FS26	270.6	<0.500	359.83	400.57	0.06995	1.001	14.18	<0.004	3.923	8.07	0.7012	1.945	<1.000	0.1275	212.00	65.74
9/28/2022	BS02	128.1	<0.500	313.89	340.53	0.1675	0.7167	50.07	<0.004	2.670	10.4	1.465	2.571	<1.000	0.1080	185.71	202.6
10/5/2022	BS21	383.4	0.6762	1052.53	745.65	0.1863	0.9812	57.76	<0.004	7.800	96.3	1.003	2.320	<1.000	0.2088	760.00	138.5
10/12/2022	FS14	59.06	<0.500	137.35	120.75	0.05049	0.6421	26.22	<0.004	1.079	7.79	0.3185	1.096	<1.000	0.06190	61.429	42.72
10/19/2022	FS19	203.8	<1.500	533.74	451.17	0.2227	1.175	20.95	<0.004	4.836	11.8	<0.900	1.983	<3.000	0.1374	120.00	85.89
10/26/2022	BS07	12.44	<0.500	<2.01	<2.00	0.2514	<0.300	1.184	<0.004	16.140	1.06	<0.300	0.5144	<1.000	0.2136	<2.0000	9.734
11/2/2022	FS21	40.25	<0.500	81.82	65.92	0.08426	<0.300	1.035	<0.004	1.912	4.93	<0.300	<0.300	<1.000	<0.020	95.000	6.929
11/9/2022	BS08	437.6	0.6939	420.37	408.34	0.1661	1.437	70.38	<0.004	11.02	50.1	0.8847	2.784	<1.000	2.186	381.43	196.9
11/16/2022	FS13	73.48	<1.500	62.88	53.58	0.2339	<0.900	2.700	<0.004	3.312	2.57	<0.900	<0.900	<3.000	0.06437	99.412	20.10
11/22/2022	BS25	758.7	1.107	323.50	376.60	0.3550	3.065	68.02	<0.004	18.72	36.3	1.9160	3.826	1.466	0.1626	681.82	354.4
11/30/2022	FS38	9.384	<0.500	2.31	2.79	0.0589	0.4243	1.108	<0.004	<0.300	1.19	0.3831	0.5253	<1.000	0.04742	3.3750	<5.000
12/7/2022	BS06	396.5	0.5373	280.81	331.57	0.1251	1.170	53.05	<0.004	9.113	9.26	0.8839	2.493	<1.000	0.1065	258.00	106.3
12/14/2022	FS29	506.0	<0.500	394.49	334.84	0.2551	1.807	19.45	<0.004	11.370	21.7	1.073	3.652	<1.000	0.1449	335.00	165.0

Table 29: Sanitary Manhole Sampling Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
A & F Plating Company	1	1/18/2022	C	FP	<0.015	<0.075	0.06634	<0.075	0.07915	<0.025	<0.060			<0.004								
A & F Plating Company	1	8/4/2022	C	FP	<0.015	<0.075	0.02229	<0.075	<0.050	<0.025	<0.060			0.0477								
Accent Plating Company	1	3/17/2022	C	BP	<0.015	<0.075	0.05625	<0.075	<0.050	<0.025	<0.060			0.00657								
Accent Plating Company	1	11/9/2022	C	BP	<0.015	<0.075	0.05327	<0.075	0.1371	<0.025	0.06207			0.00473								
Alloy Holdings, LLC	1	3/30/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
Alloy Holdings, LLC	1	10/4/2022	C	FP	<0.015	<0.075	0.02710	<0.075	<0.050	<0.025	3.437											
Alloy Holdings, LLC	1	11/21/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.3194											
Armbrust International, Ltd.	1	2/8/2022	C	FP	<0.015	<0.075	0.2486	<0.075	0.1054	0.08382	0.2244			0.0117								
Armbrust International, Ltd.	1	8/16/2022	C	FP	<0.015	<0.075	0.1071	<0.075	0.08680	<0.025	0.08274			0.0136								
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP											21141.99			2440	2650	0.330	2650	
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP											2671.43	<2.0000		66.0	73.0	<0.100	73.0	
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP											6720.39			6900	9300	<0.100	9300	
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP											37164.15	<2.0000		3860	5950	0.182	5950	
Best Engineered Surface Technologies, LLC	1	2/10/2022	C	BP	<0.015	<0.075	0.05000	<0.075	0.06334	<0.025	1.027			<0.004								
Best Engineered Surface Technologies, LLC	1	10/12/2022	C	BP	<0.015	<0.075	0.02125	<0.075	0.08134	<0.025	0.1437			<0.004								
Bliss Manufacturing Co., Inc.- discontinued 9/1/2022	1	4/25/2022	C	BP	<0.015	<0.075	0.1434	<0.075	<0.050	0.03823	<0.060			<0.004								
Bliss Manufacturing Co., Inc.- discontinued 9/1/2022	1	6/13/2022	C	BP	<0.015	<0.075	0.1783	<0.075	<0.050	0.04129	<0.060			<0.004								
CBNA Barletta Phase IIIA CSO JV	1	1/19/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	0.02733				39.333	<4.000					

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
CBNA Barletta Phase IIIA CSO JV	1	1/25/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	0.02777				46.182	<4.000					
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005				2.1320	<4.000					
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	0.008643				14.444	<4.000					
CBNA Barletta Phase IIIA CSO JV	1	12/6/2022	G	BP												6.5946						
CBNA Barletta Phase IIIA CSO JV OF-213 Drop Shaft Site	1	12/6/2022	G	BP												34.526						
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	9/14/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005				58.000	<4.000					
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005				85.000	18.85					
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	12/6/2022	G	BP												2604.0						
Chemart Company	1	1/12/2022	C	BP	<0.015	<0.075	0.1886	<0.075	0.06499	<0.025	<0.060			<0.004								
Chemart Company	1	8/3/2022	C	BP	<0.015	<0.075	0.6230	<0.075	0.4528	<0.025	0.4785			0.0217								
Cintas Corporation	1	4/7/2022	C	BP	<0.015	<0.075	0.08777	0.08963	0.07011	<0.025	0.6395			0.00847	610.88	256.00	76.57					
Cintas Corporation	1	10/26/2022	C	BP	<0.015	<0.075	0.06353	<0.075	0.1922	<0.025	0.6919			0.0124	543.63	62.222	36.71					
Contract Specialties, Inc.	1	3/2/2022	C	FP	<0.015	<0.075	0.1811	<0.075	<0.050	<0.025	<0.060	<0.005		<0.004								
Contract Specialties, Inc.	1	8/25/2022	C	FP	<0.015	<0.075	0.02183	<0.075	<0.050	<0.025	<0.060			<0.004								
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.015	<0.075	0.02687	<0.075	<0.050	<0.025	<0.060				98.93	4.8485	5.432					
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060				1210.39	25.111	9.259					
DiFruscia Industries, Inc.	1	1/19/2022	C	FP	<0.015	<0.075	0.1373	<0.075	1.947	<0.025	1.550			0.0328								
DiFruscia Industries, Inc.	1	3/3/2022	C	FP	<0.015	0.1268	0.05808	<0.075	1.036	<0.025	3.076			0.00724								
DiFruscia Industries, Inc.	1	4/27/2022	C	FP	<0.015	0.4222	<0.020	<0.075	<0.050	<0.025	0.2915			<0.004								

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
DiFruscia Industries, Inc.	1	8/17/2022	C	FP	<0.015	0.1888	0.04240	<0.075	0.1480	<0.025	6.938			0.00469								
DiFruscia Industries, Inc.	1	11/15/2022	C	FP	<0.015	0.3653	0.1773	<0.075	0.1166	<0.025	1.355			0.114								
DiGregorio Corporation	1	8/18/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	0.005784		9.00								
DiGregorio Corporation	1	11/8/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005		<0.004								
DiGregorio Corporation	1	12/6/2022	G	BP												<2.0000						
E&M Enterprises, LTD	1	2/2/2022	C	FP	<0.015	<0.075	0.2475	<0.075	0.5689	0.03113	<0.060			0.103								
E&M Enterprises, LTD	1	7/18/2022	C	FP	<0.015	<0.075	0.02387	<0.075	0.05937	<0.025	<0.060			<0.008								
Ecological Fibers, Inc.	1	3/1/2022	C	BP	<0.015	<0.075	<0.020	<0.075	0.1440	<0.025	1.079				1124.59	7.7011						
Ecological Fibers, Inc.	1	11/16/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	19.16				405.34	<2.0000						
Ecological Fibers, Inc.	1	12/14/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	1.495				281.69	15.000						
Electrolizing, Inc.	1	1/11/2022	C	FP	<0.015	0.2544	0.03163	<0.075	<0.050	<0.025	0.8827			<0.004								
Electrolizing, Inc.	1	7/21/2022	C	FP	<0.015	0.3716	0.06247	<0.075	<0.050	<0.025	1.867			<0.004								
General Cable Industries, LLC	1	1/19/2022	C	BP	<0.015	<0.075	0.7144	0.1544	<0.050	<0.025	0.7197				862.31	70.500	13.73					
General Cable Industries, LLC	1	9/19/2022	C	BP	<0.015	<0.075	0.6749	<0.075	0.1088	<0.025	0.6333				414.25	53.846	<4.000					
Godfrey and Wing Inc.	1	2/14/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
Hindley Manufacturing Company	1	3/28/2022	G	BP	<0.015	<0.075	0.02433	<0.075	0.3863	<0.025	0.1054			<0.004			<4.000					
Hindley Manufacturing Company	1	9/2/2022	G	BP	<0.015	<0.075	<0.020	<0.075	0.5983	<0.025	<0.060			<0.004			15.75					
Hord Crystal Corporation	1	4/12/2022	G	BP	<0.015	<0.075	0.03616	<0.075	<0.050	<0.025	0.6067			0.00763								
Hord Crystal Corporation	1	8/31/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004								
HP Services, Inc.	1	3/10/2022	G	BP	<0.015	<0.075	0.02721	<0.075	<0.050	<0.025	<0.060			<0.004			<4.000					
HP Services, Inc.	1	9/15/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004			1.800					
Ideal Plating & Polishing Co., Inc.	1	3/16/2022	C	FP	<0.015	<0.075	0.2434	<0.075	0.2562	<0.025	0.1006			0.0656								
Ideal Plating & Polishing Co., Inc.	1	9/13/2022	C	FP	<0.015	0.09379	0.4108	<0.075	0.4091	<0.025	0.1155			0.213								
Induplate, LLC	1	2/16/2022	C	FP	<0.015	<0.075	0.04172	<0.075	<0.050	<0.025	<0.060			0.00602								
Induplate, LLC	1	8/25/2022	C	FP	<0.015	<0.075	0.06130	<0.075	0.1232	<0.025	0.2659			<0.004								
International Chromium Plating	1	1/20/2022	C	FP	<0.015	0.7348	0.02622	<0.075	0.1172	<0.025	0.06505			0.0646								

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
International Chromium Plating	1	8/3/2022	C	FP	<0.015	0.6146	0.03892	<0.075	<0.050	<0.025	<0.060			0.0343								
International Insignia Corporation	1	1/18/2022	C	FP	<0.015	<0.075	0.2988	<0.075	0.4640	<0.025	0.07739			0.00482								
International Insignia Corporation	1	7/26/2022	C	FP	<0.015	<0.075	0.2497	<0.075	0.9939	<0.025	<0.060			0.0504								
Interplex Engineered Products, Inc.	1	1/4/2022	C	BP	<0.015	<0.075	0.3067	<0.075	0.6126	<0.025	<0.060			0.00475								
Interplex Engineered Products, Inc.	1	8/15/2022	C	BP	<0.015	<0.075	0.06016	<0.075	0.1478	<0.025	<0.060			0.00856								
Ira Green, Inc.	1	3/29/2022	C	FP	<0.015	<0.075	0.05481	<0.075	<0.050	<0.025	<0.060			0.0464								
Ira Green, Inc.	1	9/28/2022	C	FP	<0.015	<0.075	0.03667	<0.075	<0.050	<0.025	<0.060			0.00714								
Isle Brewers Guild, LLC	1	3/30/2022	C	BP											182.82	47.000						
Isle Brewers Guild, LLC	1	11/16/2022	C	BP											151.21	22.600						
John H. Collins & Sons Company	1	3/1/2022	C	BP	<0.015	<0.075	0.1045	<0.075	0.07881	0.07779	0.2708			0.0281			6.575					
John H. Collins & Sons Company	1	10/6/2022	C	BP	<0.015	<0.075	0.07201	<0.075	<0.050	<0.025	0.1020			<0.004			14.46					
Mahr Federal Inc.	1	3/8/2022	C	FP	<0.015	0.2834	0.02948	<0.075	<0.050	<0.025	<0.060			<0.004								
Mahr Federal Inc.	1	10/5/2022	C	FP	<0.015	0.07667	0.2681	<0.075	<0.050	<0.025	0.2040			<0.004								
Manchester Street, LLC	1	3/8/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.1459											
Manchester Street, LLC	1	10/17/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
Materion Technical Materials, Inc.	1	1/18/2022	C	BP	<0.015	<0.075	0.02323	<0.075	1.220	<0.025	<0.060			<0.004								
Materion Technical Materials, Inc.	1	8/30/2022	C	BP	<0.015	<0.075	0.02491	<0.075	<0.050	<0.025	<0.060			0.00596								
Metallurgical Solutions, Inc.	1	3/9/2022	G	FP	<0.015	0.3139	0.2370	<0.075	0.3784	<0.025	<0.060			<0.004								
Metallurgical Solutions, Inc.	1	9/2/2022	G	FP	<0.015	1.350	0.4964	<0.075	0.9952	<0.025	0.1229			<0.004								
Monarch Metal Finishing Co., Inc. - Georgia Ave	1	1/4/2022	C	FP	<0.015	0.1384	2.175	<0.075	6.134	0.02600	1.910			35.6								
Monarch Metal Finishing Co., Inc. - Georgia Ave	1	2/14/2022	C	FP	<0.015	0.1844	0.7365	<0.075	0.3662	<0.025	0.4319			0.141								

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
Monarch Metal Finishing Co., Inc. - Georgia Ave	1	8/31/2022	C	FP	<0.015	<0.075	0.2313	<0.075	0.1558	<0.025	0.3252			0.210								
Monarch Metals Finishing Co., Inc. - Railroad Ave.	1	3/16/2022	C	FP	<0.015	<0.075	1.052	<0.075	0.3222	<0.025	0.3873			0.0632								
Monarch Metals Finishing Co., Inc. - Railroad Ave.	1	10/20/2022	C	FP	<0.015	<0.075	1.378	<0.075	3.725	<0.025	0.2337			0.110								
Monarch Metals Finishing Co., Inc. - Railroad Ave.	1	12/7/2022	C	FP	<0.015	<0.075	0.8824	<0.075	0.4592	<0.025	0.06017			0.0241								
Murdock Webbing Co., Inc.	1	2/8/2022	C	BP	<0.015	<0.075	0.09909	<0.075	<0.050	<0.025	0.1629				866.29	46.000	14.72					
Murdock Webbing Co., Inc.	1	8/17/2022	C	BP	<0.015	<0.075	0.05112	<0.075	<0.050	<0.025	0.07457				855.60	30.000	37.98					
Narragansett Jewelry	1	2/16/2022	C	FP	<0.015	<0.075	0.06384	<0.075	<0.050	<0.025	<0.060			0.00514								
Narragansett Jewelry	1	8/4/2022	C	FP	<0.015	<0.075	0.1069	<0.075	<0.050	0.04038	<0.060			<0.004								
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060				4.25	14.330	<4.000					
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.2510				35.27	30.000	<4.000					
Providence Journal Co.	1	3/24/2022	C	FP	<0.015	<0.075	0.04528	<0.075	<0.050	<0.025	<0.060						6.403					
Providence Journal Co.	1	9/28/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060						9.975					
Providence Metallizing Company, Inc.	1	4/26/2022	C	BP	<0.015	0.2804	0.1964	<0.075	0.2096	<0.025	<0.060			0.00619								
Providence Metallizing Company, Inc.	1	8/17/2022	C	BP	<0.015	0.2325	0.1541	<0.075	0.1811	<0.025	<0.060			<0.004								
Providence Specialty Products	1	3/15/2022	G	FP												1060.0	84.00					
Providence Specialty Products	2	3/15/2022	C	FP											20872.19	1606.7	86.25					
Providence Specialty Products	1	9/15/2022	G	FP											29.94	9.3939	8.100					

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
Providence Specialty Products	2	11/1/2022	C	FP											24518.40	2333.3	120.5					
Rhode Island Bioenergy Facility, LLC	1	5/4/2022	C	FP											257.29	20.000		13.3	15.2	0.334	15.5	
Rhode Island Bioenergy Facility, LLC	1	10/4/2022	C	FP											179.18	12.800	<4.000	<0.100	10.5	<0.100	10.5	
Rhode Island Bioenergy, LLC	1	11/30/2022	C	FP											23.26	154.00	<4.000	1.53	23.9	115	139	
Rhode Island Bioenergy, LLC	1	12/13/2022	C	FP											30.23	148.00	<4.000	2.44	20.0	247	249	
Rhode Island Heat Treating Company, LLC	1	4/19/2022	G	FP	<0.015	0.2199	0.4212	<0.075	0.1807	<0.025	0.1091			0.281								
Rhode Island Heat Treating Company, LLC	1	10/17/2022	G	FP	<0.015	0.1396	0.3755	<0.075	0.09951	<0.025	<0.060			0.177								
RI Resource Recovery	1	5/3/2022	C	FP	<0.015	0.1477	<0.020	<0.075	0.06032	<0.025	<0.060	0.2120	1.59	0.0265	1359.71	190.00	<4.000	0.603	33.2	18.1	51.3	
RI Resource Recovery	1	10/19/2022	C	FP	<0.015	0.1492	<0.020	<0.075	0.07450	<0.025	<0.060	0.2372	1.36	0.0457	48.62	123.00	<4.000	0.361	35.0	3.09	38.1	
Stackbin Corporation	1	4/21/2022	G	BP	<0.015	<0.075	0.1605	<0.075	<0.050	<0.025	0.1453			0.0120			75.18					
Stackbin Corporation	2	4/21/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			0.0210								
Stackbin Corporation	1	10/6/2022	G	BP	<0.015	<0.075	0.2126	<0.075	0.05579	<0.025	0.1187			0.00801			91.05					
Stackbin Corporation	2	10/6/2022	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004								
Summit Manufacturing Corporation	1	1/5/2022	C	BP	<0.015	0.9493	0.4483	<0.075	0.09139	<0.025	<0.060			0.00569								
Summit Manufacturing Corporation	1	6/30/2022	C	BP	<0.015	0.1445	0.1276	<0.075	<0.050	<0.025	<0.060			0.0334								
Surface Coatings Division, MFB LLC	1	3/15/2022	C	FP	<0.015	<0.075	0.1120	<0.075	<0.050	<0.025	0.2518			<0.004								
Surface Coatings Division, MFB LLC	1	10/13/2022	C	FP	<0.015	0.1878	0.1292	<0.075	0.1883	<0.025	0.3605			0.00411								
Synagro Northeast, LLC	1	4/19/2022	C	BP											169.21	244.00	42.75					
Synagro Northeast, LLC	1	4/27/2022	C	BP											333.98	310.00	88.08					
Synagro Northeast, LLC	1	11/1/2022	C	BP											210.71	970.00	28.40					
Tanury Industries	1	3/31/2022	C	BP	<0.015	9.806	0.2758	<0.075	0.9285	<0.025	<0.060			0.0360								
Tanury Industries	1	11/3/2022	C	BP	<0.015	0.4773	0.4078	<0.075	1.096	0.05118	<0.060			0.138								
Technodic, Inc.	1	1/5/2022	C	FP	<0.015	0.4289	0.1489	<0.075	<0.050	<0.025	0.1110			0.00793								

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppb
Technodic, Inc.	1	7/20/2022	C	FP	<0.015	0.2315	0.08161	<0.075	<0.050	<0.025	<0.060			0.0137								
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.015	<0.075	0.08166	<0.075	<0.050	<0.025	0.2568				61.52	12.750	<4.000					
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.015	<0.075	0.06520	<0.075	<0.050	<0.025	0.3293				42.59	102.00	12.22					
Teknor Apex	1	3/30/2022	C	BP	<0.015	<0.075	0.03499	<0.075	<0.050	<0.025	0.4836						<4.000					
Teknor Apex	1	9/27/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.3426						1.098					
Textron, Inc.	1	4/11/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
Textron, Inc.	1	10/12/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
The Okonite Company	1	2/2/2022	C	BP	<0.015	<0.075	0.1948	<0.075	<0.050	<0.025	0.1724				63.22		<4.000					
The Okonite Company	1	9/27/2022	C	BP	<0.015	<0.075	0.05174	<0.075	<0.050	<0.025	0.1294				215.79		1.712					
Tiffany and Company	1	3/2/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004								
Tiffany and Company	1	10/25/2022	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004								
Tockwotten Partners, LLC	1	4/26/2022	C	FP											38.81	8.4000						
Tockwotten Partners, LLC	1	11/8/2022	C	FP											1654.18	51.667						
Tri-Jay Company	1	3/30/2022	C	FP	<0.015	<0.075	0.2618	<0.075	0.2182	0.02776	<0.060			0.0131								
Tri-Jay Company	1	10/26/2022	C	FP	<0.015	<0.075	1.387	<0.075	0.1792	<0.025	0.3487			0.00908								
Tri-Jay Company	1	12/6/2022	C	FP	<0.015	<0.075	0.8120	<0.075	0.2579	<0.025	0.8662			0.0102								
Truex, Inc.	1	1/20/2022	C	BP	<0.015	<0.075	0.3003	<0.075	<0.050	<0.025	<0.060			<0.004			<4.000					
Truex, Inc.	1	9/20/2022	C	BP	<0.015	<0.075	0.1675	<0.075	<0.050	<0.025	0.06343			<0.004			3.375					
Unique Plating Company	1	1/27/2022	C	FP	<0.015	<0.075	0.3044	<0.075	1.340	<0.025	<0.060			0.0568								
Unique Plating Company	1	7/19/2022	C	FP	<0.015	<0.075	1.116	<0.075	1.043	<0.025	0.09229			0.120								
Univar USA, Inc.	1	4/19/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060		29.8	<0.004								
Univar USA, Inc.	1	4/19/2022	G	FP																		461
Univar USA, Inc.	1	10/6/2022	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060		135	<0.004								
Univar USA, Inc.	1	10/6/2022	G	FP																		6000
Universal Plating Company, Inc.	1	1/11/2022	C	FP	<0.015	<0.075	0.1430	<0.075	<0.050	<0.025	<0.060			0.169								
Universal Plating Company, Inc.	1	8/11/2022	C	FP	<0.015	<0.075	0.02120	<0.075	<0.050	<0.025	<0.060			0.00706								

Table 30A: NBC Industrial and Commercial User Data

NBC 2022 Industrial and Commercial User Sample Results

					(m & p) Xylene				(o) Xylene				1,1-Dichloroethane				1,1-Dichloroethene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.100				<0.050				<0.050				<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.100				<0.050				<0.050				<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.020				<0.010				<0.010				<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.800				<0.400				<0.050				<0.050			
John H. Collins & Sons Company	1	3/1/2022	G	BP	0.249	0.246	0.167	0.151	0.0937	0.0899	0.0616	0.0546	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.002				<0.001				<0.001				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					(m & p) Xylene				(o) Xylene				1,1-Dichloroethane				1,1-Dichloroethene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				<0.001				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.050				<0.025				<0.025				<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.020				<0.010				<0.010				<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.002	<0.002	<0.002		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.020	<0.020	<0.020		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					1,1,1-Trichloroethane				1,1,2-Trichloroethane				1,1,2,2-Tetrachloroethane				1,2-Dichlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050				<0.050					<0.050		
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				<0.050				<0.050					<0.050		
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	0.00385	0.00331	0.00272	0.00259	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	0.00910	0.00702	0.00669	0.00682	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				<0.010				<0.010					<0.010		
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.050				<0.050				<0.050					<0.400		
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				<0.001				<0.001				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					1,1,1-Trichloroethane				1,1,2-Trichloroethane				1,1,2,2-Tetrachloroethane				1,2-Dichlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				<0.001				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025				<0.025					<0.025		
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010				<0.010					<0.010		
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					1,2-Dichloroethane				1,2-Dichloropropane				1,3-Dichlorobenzene				1,4-Dichlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050					<0.050			<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				<0.050					<0.050			<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				<0.010					<0.010			<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.050				<0.050					<0.400			<0.400			
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				<0.001				<0.001				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					1,2-Dichloroethane				1,2-Dichloropropane				1,3-Dichlorobenzene				1,4-Dichlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				<0.001				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025					<0.025			<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010					<0.010			<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					2-Chloroethyl vinyl ether				Acetone				Acrolein			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	0.128	0.110	0.338	0.117	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	0.345	0.318	0.370	0.383	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050				<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				0.448				<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	0.00525	0.00524	0.00554	0.00594	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.010	<0.010	<0.010		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.010	<0.010	<0.010		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	14.8	15.2	17.6	18.1	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	8.03	9.33	6.86	5.69	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00114	0.00110	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				0.388				<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.400				10.6				<0.400			
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	0.501	0.439	0.278	0.244	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	2.07	2.82	2.56	3.19	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				0.00776				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					2-Chloroethyl vinyl ether				Acetone				Acrolein			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				0.056				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				0.359				<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				0.259				<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		0.00475	0.00363	0.00372		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		<0.010	0.0104	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Acrylonitrile				Benzene				Bromodichloromethane				Bromoform			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050				<0.050				<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				<0.050				<0.050				<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		0.0011	<0.001	<0.001		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				<0.010				<0.010				<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.400				<0.400				<0.050				<0.050			
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				<0.001				0.00304				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Acrylonitrile				Benzene				Bromodichloromethane				Bromoform			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				0.0011				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025				<0.025				<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010				<0.010				<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		0.00267	0.00285	0.00279		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Bromomethane				Carbon Tetrachloride				Chlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.100				<0.050				<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.100				<0.050				<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Cintas Corporation	1	4/7/2022	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.020				<0.010				<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.100				<0.050				<0.400			
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.002				<0.001				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Bromomethane				Carbon Tetrachloride				Chlorobenzene			
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				<0.001			
RI Resource Recovery	1	5/3/2022	G	FP	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.050				<0.025				<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.020				<0.010				<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.002	<0.002	<0.002		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP	<0.020	<0.020	<0.020		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Chloroethane				Chloroform				Chloromethane				cis-1,3-Dichloroprope		
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	0.0754	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050				<0.050				<0.050		
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				<0.050				<0.050				<0.050		
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	0.00141	0.00185	0.00187	0.00205	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		0.0024	0.0024	0.0025		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				0.0368				<0.010				<0.010		
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.050				<0.050				<0.050				<0.050		
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				0.0440				<0.001				<0.001		

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Chloroethane				Chloroform				Chloromethane				cis-1,3-Dichloroprope		
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				0.043				<0.001				<0.0004		
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025				<0.025				<0.025		
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010				<0.010				<0.010		
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		0.0246	0.0253	0.0260		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		0.169	0.163	0.169		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					ne
			Grab Number:		4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	
Cintas Corporation	1	4/7/2022	G	BP	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					ne
			Grab Number:		4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	
RI Resource Recovery	1	5/3/2022	G	FP	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	
Tedor Pharma Inc.	1	8/17/2022	G	BP	
Textron, Inc.	1	4/11/2022	G	FP	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	
Univar USA, Inc.	1	10/6/2022	G	FP	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Dibromochloromethane				Ethyl Acetate	Ethylbenzene				Isopropyl Acetate	Methylene Chloride				n-Amyl Acetate
			Grab Number:		1	2	3	4	1	1	2	3	4	1	1	2	3	4	1
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050					<0.050					<0.050				
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050					<0.050					<0.050				
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001			<0.001	<0.001	<0.001		
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001			<0.001	<0.001	<0.001		
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100		<0.100	<0.100	<0.100	<0.100		<0.100	<0.100	<0.100	<0.100	
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100		<0.100	<0.100	<0.100	<0.100		<0.100	<0.100	<0.100	<0.100	
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				<0.010	<0.010				<0.010	<0.010				<0.010
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.050				<0.050	<0.400				<0.050	<0.050				<0.400
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001					<0.001					<0.001				

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Dibromochloromethane				Ethyl Acetate	Ethylbenzene				Isopropyl Acetate	Methylene Chloride				n-Amyl Acetate
			Grab Number:		1	2	3	4	1	1	2	3	4	1	1	2	3	4	1
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001					<0.001					<0.001				
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020		<0.020	<0.020	<0.020	<0.020		<0.020	<0.020	<0.020	<0.020	
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025	<0.025				<0.025	<0.025				<0.025
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010	<0.010				<0.010	<0.010				<0.010
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001			<0.001	<0.001	<0.001		
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010		

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Tetrachloroethene				Toluene				trans-1,2-Dichloroethene				trans-1,3-Dichloroprop		
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.050				<0.050				<0.050				<0.050		
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.050				<0.050				<0.050				<0.050		
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	0.00541	0.00523	0.00489	0.00477	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP	0.0012	0.0015	0.0017		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	0.102	0.0883	0.0744	0.0714	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	0.0877	0.0663	0.0630	0.0639	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.010				<0.010				<0.010				<0.010		
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.050				<0.400				<0.050				<0.050		
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	1.09	0.784	0.386	0.291	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	0.200	0.177	0.113	0.104	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP	<0.001				<0.001				<0.001				<0.001		

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					Tetrachloroethene				Toluene				trans-1,2-Dichloroethene				trans-1,3-Dichloroprop		
			Grab Number:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP	<0.001				<0.001				<0.001				<0.0004		
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.025				<0.025				<0.025				<0.025		
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.010				<0.010				<0.010				<0.010		
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Univar USA, Inc.	1	10/6/2022	G	FP	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					ene	Trichloroethene				Trichlorofluoromethane				Vinyl Chloride			
			Grab Number:		4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP		<0.050				<0.050				<0.050			
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP		<0.050				<0.050				<0.050			
CBNA Barletta Phase IIIA CSO JV	1	9/14/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CBNA Barletta Phase IIIA CSO JV	1	11/9/2022	G	BP		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004	
CBNA Barletta Phase IIIA CSO JV OF Receiving Shaft Site	1	11/9/2022	G	BP		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.0004	<0.0004	<0.0004	
Cintas Corporation	1	4/7/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Cintas Corporation	1	10/26/2022	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Conopco, Inc.	1	1/25/2022	G	BP	<0.001	0.0161	0.0141	0.0123	0.0119	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	G	BP	<0.001	0.0270	0.0212	0.0205	0.0211	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP		<0.010				<0.010				<0.010			
Denison Acquisition Company, LLC	1	8/31/2022	G	BP		<0.050				<0.050				<0.050			
John H. Collins & Sons Company	1	3/1/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
John H. Collins & Sons Company	1	10/6/2022	G	BP	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Organic Dyes and Pigments, LLC. - Lincoln	1	1/12/2022	G	BP		<0.001				<0.001				<0.001			

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

					ene	Trichloroethene				Trichlorofluoromethane				Vinyl Chloride			
			Grab Number:		4	1	2	3	4	1	2	3	4	1	2	3	4
Company	**Sample Location**	**Sample Date**	**Sample Type**	**District**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Organic Dyes and Pigments, LLC. - Lincoln	1	8/18/2022	G	BP		<0.001				<0.001				<0.0004			
RI Resource Recovery	1	5/3/2022	G	FP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
RI Resource Recovery	1	10/19/2022	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	3/10/2022	G	BP		<0.025				<0.025				<0.025			
Tedor Pharma Inc.	1	8/17/2022	G	BP		<0.010				<0.010				<0.010			
Textron, Inc.	1	4/11/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Textron, Inc.	1	10/12/2022	G	FP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Univar USA, Inc.	1	4/19/2022	G	FP		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	10/6/2022	G	FP		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dicchlorobenzene	2-Chloronaphthalene
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Nitrophenol	2,2'-Oxybis(1-chloropropane)	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
					ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.010
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	2,4-Dinitrotoluene	2,4,6-Trichlorophenol	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	0.0058	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzidine	Benzo(a)anthracene
					ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-Chloroethoxy)methane
					ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	bis(2-Chloroethyl)Ether	Bis(2-ethylhexyl)phthalate	Butylbenzyl phthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene
					ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	0.0054	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	0.038	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	0.0079	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	0.0064	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	0.0047	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Diethyl phthalate	Dimethyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	0.011	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	0.012	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	N-nitrosodi-n-propylamine	N-nitrosodimethylamine
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2022 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	N-nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	2/23/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	1	8/30/2022	C	BP	<0.004	<0.004	<0.004	<0.004	<0.004	0.620	<0.004
Aspen Aerogels Rhode Island, LLC	2	2/23/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	8/30/2022	G	BP	<0.002	<0.002	<0.002	<0.002	<0.002	3.700	<0.002
Cintas Corporation	1	4/7/2022	C	BP	<0.002	0.0043	<0.002	<0.002	<0.002	0.013	<0.002
Cintas Corporation	1	10/26/2022	C	BP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Conopco, Inc.	1	1/25/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Conopco, Inc.	1	9/21/2022	C	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/24/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	0.027	<0.001
Denison Acquisition Company, LLC	1	8/31/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RI Resource Recovery	1	5/3/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
RI Resource Recovery	1	10/19/2022	C	FP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tedor Pharma Inc.	1	3/10/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	0.0064	<0.001
Tedor Pharma Inc.	1	8/17/2022	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
01/05/2022	B07A	7.0			<0.015	<0.075	0.02629	<0.004	<0.075	<0.050				<0.025		0.09705
01/05/2022	B07B	7.3			<0.015	<0.075	0.03203	<0.004	<0.075	<0.050				<0.025		0.1036
01/05/2022	B16A	6.6			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.07083
01/05/2022	B16B	6.5			<0.015	<0.075	0.02939	<0.004	<0.075	<0.050				<0.025		0.08834
01/05/2022	B39A	7.3			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
01/05/2022	B39B	7.5			<0.015	0.5006	0.4556	0.00814	<0.075	0.08890				<0.025		<0.060
01/12/2022	F122A	6.9			<0.015	<0.075	0.06078	<0.004	<0.075	<0.050				<0.025		0.4509
01/12/2022	F122B	7.4			<0.015	<0.075	0.4913	0.0187	<0.075	0.5825				<0.025		0.07832
01/12/2022	F123B	6.3			<0.015	<0.075	0.03957	0.00767	<0.075	<0.050				<0.025		0.1214
01/12/2022	F123A	7.1			<0.015	0.09644	1.299	2.16	<0.075	0.4231				<0.025		1.084
01/12/2022	F124B	6.6			<0.015	<0.075	<0.020	0.00571	<0.075	<0.050				<0.025		0.08113
01/12/2022	F124A	6.8			<0.015	<0.075	0.8365	0.0209	<0.075	0.1412				0.1920		0.6058
01/26/2022	B14B	6.2			<0.015	<0.075	0.5082	0.0131	<0.075	<0.050				<0.025		0.2463
01/27/2022	B14A	7.1			<0.015	<0.075	0.1003	<0.004	<0.075	<0.050				<0.025		0.3202
01/26/2022	B13A	8.4			<0.015	<0.075	0.1590		<0.075	<0.050				0.02839		1.517
01/26/2022	B13B	8.1			<0.015	<0.075	0.1867	<0.004	<0.075	<0.050				<0.025		0.2706
02/02/2022	F116B	7.2			<0.015	<0.075	0.06842	<0.004	<0.075	<0.050				<0.025		0.1258
02/02/2022	F116A	7.2			<0.015	<0.075	0.1196	<0.004	<0.075	<0.050				<0.025		0.2305
02/02/2022	F111B	7.8			<0.015	<0.075	<0.020	0.00429	<0.075	<0.050				<0.025		0.06504
02/02/2022	F111A	7.2			<0.015	<0.075	2.796	1.86	<0.075	0.8533				<0.025		0.1445
02/02/2022	F45B	7.1			<0.015	<0.075	0.05036	0.00682	<0.075	<0.050				0.04737		0.1470
02/02/2022	F45A	7.4			<0.015	<0.075	0.02582	<0.004	<0.075	<0.050				<0.025		0.1160
02/09/2022	B92A	8.2			<0.015	<0.075	0.07573	0.00420	<0.075	<0.050				<0.025		0.1761
02/09/2022	B92B	7.9			<0.015	0.4479	3.646	0.114	<0.075	2.358				0.4310		0.06882
02/09/2022	B92C	6.8			<0.015	<0.075	0.9251	0.0406	<0.075	1.609				0.02676		0.2708
02/09/2022	B95A	7.2			<0.015	<0.075	<0.020	0.00733	<0.075	<0.050				<0.025		<0.060
02/09/2022	B95B	7.0			<0.015	<0.075	0.02431	<0.004	<0.075	<0.050				<0.025		0.1085
02/09/2022	B95C	7.2			<0.015	<0.075	0.02563	0.00971	<0.075	<0.050				<0.025		0.08606
02/17/2022	F23B	8.4			<0.015	<0.075	0.2438	0.00530	<0.075	<0.050				<0.025		0.7643
02/17/2022	F23A	6.5			<0.015	<0.075	0.2669	0.00965	<0.075	0.2787				<0.025		0.1143
02/16/2022	F65B	7.6			<0.015	0.3537	0.06559	0.498	<0.075	0.2232				<0.025		0.1272
02/16/2022	F65A	7.1			<0.015	0.4731	0.1713	0.0156	0.2472	0.08285				<0.025		0.4534
02/23/2022	B73A	7.1			<0.015	<0.075	0.1014	<0.004	<0.075	<0.050				<0.025		0.1152
02/23/2022	B73B	7.0			<0.015	<0.075	0.04518	<0.004	<0.075	<0.050				<0.025		0.1007

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
02/23/2022	B44A	8.0			<0.015	<0.075	0.07907	<0.004	<0.075	<0.050				<0.025		0.07317
02/23/2022	B44B	8.5			<0.015	<0.075	0.08024	<0.004	<0.075	<0.050				<0.025		0.1667
02/23/2022	B41A	7.8			<0.015	<0.075	0.1288	<0.004	<0.075	<0.050				<0.025		0.2212
02/23/2022	B41B	8.1			<0.015	<0.075	0.09227	0.196	<0.075	<0.050				<0.025		0.2279
03/02/2022	F09B	8.4			<0.015	<0.075	0.05069	0.00611	<0.075	<0.050				<0.025		0.1235
03/02/2022	F09C	7.7			<0.015	<0.075	0.02968	0.00629	<0.075	<0.050				<0.025		0.2484
03/02/2022	F09A	7.0			<0.015	0.2890	0.1260	0.0403	<0.075	<0.050				<0.025		0.2126
03/02/2022	F13B	7.0			<0.015	<0.075	0.02356	0.00758	<0.075	<0.050				<0.025		0.1271
03/02/2022	F13A	7.0			<0.015	<0.075	0.02280	<0.004	<0.075	<0.050				<0.025		0.1163
03/02/2022	F98A	7.0			<0.015	0.2245	0.04896	0.00812	<0.075	<0.050				<0.025		1.453
03/09/2022	B41A	8.7			<0.015	<0.075	0.08007	<0.004	<0.075	<0.050				<0.025		0.1222
03/09/2022	B41B	7.4			<0.015	<0.075	0.2243	0.306	<0.075	<0.050				0.05709		0.5417
03/09/2022	B30B	7.4			<0.015	<0.075	0.03148	0.00792	<0.075	<0.050				<0.025		<0.060
03/09/2022	B30C	7.3			<0.015	<0.075	0.03996	0.00449	<0.075	<0.050				<0.025		0.09692
03/09/2022	B102B	7.1			<0.015	<0.075	0.02816	0.0144	<0.075	<0.050				<0.025		0.1098
03/09/2022	B96	8.5			<0.015	<0.075	0.06203	<0.004	<0.075	<0.050				<0.025		0.4588
03/16/2022	F181A	7.0			<0.015	<0.075	1.565	0.0218	<0.075	1.102				<0.025		0.3080
03/16/2022	F08B	8.4			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.09855
03/16/2022	F08A	8.7			<0.015	<0.075	1.001	0.0158	<0.075	0.2193				<0.025		0.1567
03/17/2022	F11C	7.6			<0.015	<0.075	0.07255	0.00671	<0.075	<0.050				<0.025		0.1027
03/16/2022	F11B	7.9			<0.015	<0.075	0.06686	0.00427	<0.075	<0.050				<0.025		0.1358
03/16/2022	F11A	7.9			<0.015	<0.075	0.4547	0.0199	<0.075	0.2174				<0.025		0.1911
03/23/2022	B126	8.7			<0.015	<0.075	0.2344	<0.004	<0.075	<0.050				<0.025		1.013
03/23/2022	B125	7.7			<0.015	<0.075	0.1321	0.00714	<0.075	<0.050				0.04648		0.3931
03/23/2022	B44A	7.0			<0.015	<0.075	0.1056	<0.004	<0.075	<0.050				<0.025		0.2781
03/23/2022	B44B	7.4			<0.015	<0.075	0.09385	<0.004	<0.075	<0.050				<0.025		0.2389
03/23/2022	B104	7.2			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
03/30/2022	F48A	7.2			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
03/30/2022	F204B	8.3			<0.015	<0.075	0.03373	0.00490	<0.075	<0.050				<0.025		0.6569
03/30/2022	F204A	6.8			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
03/30/2022	F53B	7.2			<0.015	<0.075	0.1212	<0.004	<0.075	<0.050				<0.025		0.6973
03/30/2022	F53A	7.3			<0.015	<0.075	0.2164	0.00850	<0.075	0.1750				<0.025		0.2492
04/07/2022	B73A	7.4			<0.015	<0.075	0.05126	0.00760	<0.075	<0.050				<0.025		0.09687
04/06/2022	B73B	7.0			<0.015	<0.075	0.05825	<0.004	<0.075	<0.050				<0.025		0.1896

*pH measured on composite sample out of hold time

**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
04/06/2022	B39A	7.7			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
04/06/2022	B39B	5.5			<0.015	<0.075	0.09368	<0.004	<0.075	0.05541				<0.025		<0.060
04/06/2022	B128A	8.7			<0.015	<0.075	0.08380	<0.004	<0.075	<0.050				<0.025		0.1201
04/06/2022	B128B	7.2			<0.015	<0.075	0.08265	<0.004	<0.075	<0.050				<0.025		0.1487
04/13/2022	F204B	8.5			<0.015	<0.075	<0.020	0.0128	<0.075	<0.050				<0.025		0.3336
04/14/2022	F204A	7.7			<0.015	<0.075	0.06764	0.0371	<0.075	<0.050				<0.025		0.1536
04/14/2022	F204C	7.6			<0.015	<0.075	0.1118	0.0143	<0.075	<0.050				<0.025		0.08281
04/13/2022	F56A	7.2			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1826
04/13/2022	F106B	6.8			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1520
04/13/2022	F106A	7.3			<0.015	<0.075	0.02295	<0.004	<0.075	<0.050				<0.025		0.1696
04/20/2022	B25A	7.1			<0.015	<0.075	0.05101	<0.004	<0.075	<0.050				<0.025		0.1554
04/20/2022	B25B	6.8			<0.015	<0.075	<0.020	0.0182	<0.075	<0.050				<0.025		0.06581
04/20/2022	B77A	7.2			<0.015	<0.075	0.07978	0.00778	<0.075	<0.050				<0.025		0.2017
04/20/2022	B77B	7.8			<0.015	<0.075	0.02666	0.0127	<0.075	<0.050				<0.025		1.758
04/20/2022	B130A	6.8			<0.015	<0.075	0.02164	<0.004	<0.075	<0.050				<0.025		<0.060
04/20/2022	B130B	6.9			<0.015	<0.075	0.02395	<0.004	<0.075	<0.050				<0.025		0.07834
04/27/2022	F123A	7.5			<0.015	0.2601	0.03538	0.00570	<0.075	<0.050				<0.025		0.4001
04/27/2022	F123B	5.9			<0.015	<0.075	0.02169	<0.004	<0.075	<0.050				<0.025		0.1692
04/28/2022	F122A	7.2			<0.015	<0.075	0.06163	<0.004	<0.075	<0.050				<0.025		0.1347
04/27/2022	F122B	7.0			<0.015	<0.075	0.1735	0.00620	<0.075	0.1174				<0.025		0.2370
04/28/2022	F124B	7.5			<0.015	<0.075	0.4464	0.00921	<0.075	0.06360				<0.025		0.1347
04/27/2022	F125A	7.0			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1028
05/04/2022	B124B	6.6			<0.015	<0.075	0.09303	<0.004	<0.075	0.09561				<0.025		0.8378
05/04/2022	B124C	7.1			<0.015	<0.075	0.07197	<0.004	<0.075	0.06593				<0.025		0.5311
05/04/2022	B26A	6.9			<0.015	<0.075	<0.020	0.0107	<0.075	<0.050				<0.025		0.06062
05/04/2022	B26B	6.7			<0.015	<0.075	<0.020	0.0116	<0.075	<0.050				<0.025		<0.060
05/11/2022	F204B	7.0			0.02055	0.2785	0.1364	<0.004	0.1754	0.7259				<0.025		0.7733
05/11/2022	F204A	6.5			<0.015	1.514	0.06851	<0.004	<0.075	0.5324				<0.025		0.5015
05/11/2022	F53B	6.7			<0.015	<0.075	0.5639	<0.040	0.3995	0.08042				<0.025		4.408
05/11/2022	F53A	9.0			<0.015	0.1876	0.1725	<0.004	<0.075	0.2678				<0.025		1.332
05/11/2022	F116B	6.8			<0.015	<0.075	0.02315	<0.004	<0.075	<0.050				<0.025		0.06955
05/11/2022	F116A	7.1			<0.015	<0.075	0.04348	<0.004	<0.075	<0.050				<0.025		0.1059
05/18/2022	B14A	6.0			<0.015	<0.075	0.1328	<0.004	<0.075	<0.050				<0.025		1.078
05/18/2022	B14B	6.9			<0.015	<0.075	2.027	0.0495	<0.075	<0.050				<0.025		0.2756

*pH measured on composite sample out of hold time

**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
05/18/2022	B07A	6.8			<0.015	<0.075	0.03084	<0.004	<0.075	<0.050				<0.025		0.1077
05/18/2022	B07B	6.9			<0.015	<0.075	0.02939	<0.004	<0.075	<0.050				<0.025		0.1069
05/25/2022	F70B	6.0			<0.015	<0.075	0.1283	0.0136	<0.075	0.1277				<0.025		0.1488
05/25/2022	F70C	7.1			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1563
05/25/2022	F70A	6.5			<0.015	<0.075	0.3981	0.0282	0.09564	0.2575				<0.025		0.4672
05/25/2022	F09B	7.2			<0.015	<0.075	0.3206	0.0146	<0.075	<0.050				<0.025		0.7516
05/25/2022	F09C	6.9			0.02326	0.2605	5.273		0.5579	0.2265				<0.025		7.849
05/25/2022	F09A	7.4			<0.015	0.09929	0.03281	<0.004	<0.075	<0.050				<0.025		<0.060
06/01/2022	B16A	6.0			<0.015	<0.075	0.02085	<0.004	<0.075	<0.050				<0.025		0.1002
06/02/2022	B16B	6.6			<0.015	<0.075	0.05009	<0.004	<0.075	<0.050				<0.025		0.1087
06/02/2022	B30B	7.9			<0.015	<0.075	0.06074	0.00462	<0.075	<0.050				<0.025		0.1563
06/02/2022	B30C	7.3			<0.015	<0.075	0.07448	0.00458	<0.075	<0.050				<0.025		0.1550
06/01/2022	B37A	6.9			<0.015	<0.075	0.09002	<0.004	<0.075	<0.050				<0.025		0.2548
06/01/2022	B37B	6.5			<0.015	<0.075	0.04015	<0.004	<0.075	<0.050				<0.025		0.07898
06/11/2022	F132	7.0	442	>23.26							984	410	1060		36.500	
06/13/2022	F132	7.2	327	100.69							1140	290	1210		221.25	
06/15/2022	F132	7.3	267	<62.26							1130	330	1450		82.000	
06/20/2022	F132	7.8	159	97.85							1320	146	1460		752.00	
06/22/2022	F132	7.9	128								815	227	1040		596.67	
06/24/2022	F132	8.2	139								1020					
06/15/2022	F151B	7.1			<0.015	<0.075	0.03163	0.00539	<0.075	<0.050				<0.025		0.1104
06/15/2022	F151A	7.6			<0.015	0.9069	0.07958	0.0133	<0.075	1.227				<0.025		1.619
06/15/2022	F111B	7.6			<0.015	<0.075	2.275	0.0661	<0.075	5.399				<0.025		0.5369
06/15/2022	F111A	7.6			<0.015	<0.075	<0.020	0.00440	<0.075	<0.050				<0.025		0.06641
06/15/2022	F53B	7.1			<0.015	<0.075	0.02194	<0.004	<0.075	<0.050				<0.025		0.1475
06/15/2022	F53A	7.1			<0.015	<0.075	0.05759	0.00744	<0.075	0.1666				<0.025		0.3295
06/22/2022	B08	8.2			<0.015	<0.075	0.02872	<0.004	<0.075	<0.050				<0.025		0.1702
06/22/2022	B47	8.1			<0.015	<0.075	0.2231	<0.004	<0.075	<0.050				<0.025		0.1177
06/22/2022	B34	7.4			<0.015	<0.075	0.02242	0.00689	<0.075	<0.050				<0.025		<0.060
06/22/2022	B91	7.4			<0.015	<0.075	0.5835	0.0632	<0.075	0.4907				0.08601		0.1320
06/22/2022	B92A	7.4			<0.015	<0.075	0.04135	0.0109	<0.075	<0.050				<0.025		<0.060
06/22/2022	B92B	7.3			<0.015	0.1558	1.002	0.237	<0.075	2.475				0.08400		0.1198
06/22/2022	B92C	6.8			<0.015	0.1337	0.4605	0.0288	<0.075	0.3300				<0.025		0.1002
06/27/2022	F132	8.1	82.7								1.27	133	134			

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
06/29/2022	F132	8.0	77.6								0.162	141	141			
06/29/2022	B08	7.0			<0.015	<0.075	0.03177	<0.004	<0.075	<0.050				<0.025		0.1440
06/29/2022	B47	3.9			<0.015	<0.075	0.1423	<0.020	<0.075	<0.050				<0.025		0.2653
06/29/2022	B34	3.9			<0.015	<0.075	0.1567	0.00469	<0.075	0.1167				<0.025		0.2196
06/29/2022	B91	6.7			<0.015	<0.075	1.680	0.0174	<0.075	1.203				<0.025		0.2025
06/29/2022	B92A	6.6			<0.015	<0.075	0.04522	<0.004	<0.075	<0.050				<0.025		0.08694
06/29/2022	B92B	6.6			<0.015	0.1034	0.5660	0.134	<0.075	2.459				<0.025		<0.060
06/29/2022	B92C	5.9			<0.015	0.2164	1.366	0.0458	<0.075	0.6381				0.03921		0.1650
07/06/2022	F125A	6.9			<0.015	<0.075	0.03332	<0.004	<0.075	<0.050				<0.025		0.1308
07/06/2022	F120	6.8			<0.015	<0.075	0.02454	0.00645	<0.075	<0.050				<0.025		0.1086
07/06/2022	F78A	6.5			<0.015	<0.075	0.03482	<0.004	<0.075	<0.050				<0.025		0.1318
07/06/2022	F51	6.5			<0.015	<0.075	0.05027	<0.008	<0.075	<0.050				<0.025		0.2316
07/06/2022	F44A	6.8			<0.015	<0.075	0.04943	<0.004	<0.075	<0.050				<0.025		0.06499
07/06/2022	F45A	7.3			<0.015	<0.075	0.02480	<0.004	<0.075	<0.050				<0.025		<0.060
07/06/2022	F07	7.9			<0.015	<0.075	0.3215	0.0383	<0.075	0.1513				<0.025		0.3181
07/27/2022	B95A	6.8			<0.015	0.1257	0.4361	0.0118	<0.075	<0.050				<0.025		0.9852
07/27/2022	B95B	6.5			<0.015	<0.075	0.02154	<0.004	<0.075	0.1051				<0.025		0.07758
07/27/2022	B95C	6.9			<0.015	<0.075	0.1181	<0.004	<0.075	<0.050				<0.025		0.07273
07/27/2022	B102B	7.9			<0.015	<0.075	0.03416	<0.004	<0.075	<0.050				<0.025		0.1644
07/27/2022	B104	7.3			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
07/28/2022	B96	6.9			<0.015	<0.075	0.03868	<0.004	<0.075	<0.050				<0.025		0.07840
08/03/2022	F04A	8.2			<0.015	<0.075	0.1436	0.0125	<0.075	0.1402				0.04471		0.1348
08/03/2022	F81A	6.8			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1442
08/03/2022	F81B	7.1			<0.015	<0.075	0.02263	<0.004	<0.075	<0.050				0.04417		0.3100
08/03/2022	F181A	6.7			<0.015	<0.075	1.945	0.00902	<0.075	1.117				<0.025		0.5119
08/31/2022	B128A	8.2			<0.015	<0.075	0.1154	<0.004	<0.075	0.05182				<0.025		0.1299
08/31/2022	B128B	7.5			<0.015	<0.075	0.09142	<0.004	<0.075	<0.050				<0.025		0.1913
08/31/2022	B124A	8.5			<0.015	<0.075	0.1166		<0.075	<0.050				<0.025		0.1745
08/31/2022	B124B	6.7			<0.015	<0.075	0.05268	<0.004	<0.075	0.1067				<0.025		0.6101
08/31/2022	B124C	6.8			<0.015	<0.075	0.04924	<0.004	<0.075	0.09409				<0.025		0.4752
08/31/2022	B126	8.5			<0.015	<0.075	0.09500	<0.004	<0.075	<0.050				<0.025		0.2057
08/31/2022	B125	7.7			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
09/07/2022	F65A	6.9			0.02812	0.3812	0.2122	0.00594	<0.075	0.3589				<0.025		0.3891
09/07/2022	F23B	7.7			<0.015	<0.075	0.07900	<0.004	<0.075	<0.050				<0.025		0.6765

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
09/07/2022	F23A	7.2			<0.015	<0.075	0.4856	0.0222	<0.075	0.2454				<0.025		0.2696
09/07/2022	F48A	6.8			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
09/14/2022	B102B	7.0			<0.015	<0.075	0.02235	0.00409	<0.075	<0.050				<0.025		0.1116
09/14/2022	B104	7.2			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
09/14/2022	B125	7.1			<0.015	<0.075	0.02122	<0.004	<0.075	<0.050				0.03285		<0.060
09/14/2022	B96	8.4			<0.015	<0.075	0.02554	<0.004	<0.075	<0.050				<0.025		0.1241
09/21/2022	F13A	7.0			<0.015	<0.075	0.05014	<0.004	<0.075	<0.050				<0.025		0.2850
09/28/2022	B25A	6.9			<0.015	<0.075	0.04913	<0.004	<0.075	<0.050				<0.025		0.1253
09/28/2022	B25B	6.6			<0.015	<0.075	<0.020	0.0177	<0.075	<0.050				<0.025		<0.060
10/05/2022	B26A	7.5			<0.015	<0.075	<0.020	0.00686	<0.075	<0.050				<0.025		<0.060
10/05/2022	B26B	7.1			<0.015	<0.075	<0.020	0.00570	<0.075	<0.050				<0.025		<0.060
10/05/2022	B77A	7.0			<0.015	<0.075	0.02735	<0.004	<0.075	<0.050				<0.025		0.09095
10/05/2022	B77B	8.7			<0.015	<0.075	0.02371	0.0175	<0.075	<0.050				<0.025		0.2916
10/12/2022	F125A	10.0			<0.015	<0.075	0.9356	0.00594	0.1683	0.06352				<0.025		0.7867
10/12/2022	F124B	6.9			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.07903
10/19/2022	F123B	7.5			<0.015	<0.075	<0.020	0.00514	<0.075	<0.050				<0.025		0.2991
10/19/2022	F123A	7.0			<0.015	<0.075	0.06398	0.00603	<0.075	<0.050				<0.025		0.3852
10/19/2022	F122A	7.6			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.1029
10/19/2022	F122B	7.3			<0.015	<0.075	0.05966	0.00542	<0.075	0.08205				<0.025		0.06701
10/19/2022	F08B	8.9			<0.015	<0.075	9.154	0.0152	<0.075	0.4823				<0.025		1.346
10/19/2022	F08A	7.8			<0.015	<0.075	0.03256	<0.004	<0.075	<0.050				<0.025		0.1777
10/26/2022	B14A	6.2			<0.015	<0.075	0.07262	<0.004	<0.075	<0.050				<0.025		0.4944
10/26/2022	B130A	6.9			<0.015	<0.075	<0.020	0.00401	<0.075	<0.050				<0.025		<0.060
10/26/2022	B130B	7.4			<0.015	<0.075	0.03245	<0.004	<0.075	<0.050				<0.025		0.07927
11/02/2022	F11A	7.8			<0.015	<0.075	5.321	0.286	<0.075	0.7638				0.03866		1.827
11/02/2022	F11B	7.3			<0.015	<0.075	0.02467	<0.004	<0.075	<0.050				<0.025		<0.060
11/03/2022	F11C	7.4			<0.015	<0.075	0.05974	0.00482	<0.075	<0.050				<0.025		0.1299
11/03/2022	F204A	7.8			<0.015	<0.075	0.02225	<0.004	<0.075	<0.050				<0.025		0.1106
11/02/2022	F204C	7.7			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
11/09/2022	B44A	7.8			<0.015	<0.075	0.05786	<0.004	<0.075	<0.050				<0.025		0.07888
11/09/2022	B44B	8.2			<0.015	<0.075	0.07464	<0.004	<0.075	<0.050				<0.025		0.3340
11/09/2022	B73A	6.0			<0.015	<0.075	0.05291	0.00818	<0.075	<0.050				<0.025		0.1748
11/09/2022	B73B	7.4			<0.015	<0.075	0.06106	<0.004	<0.075	<0.050				<0.025		0.1614
11/09/2022	B07A	7.0			<0.015	<0.075	0.02944	<0.004	<0.075	<0.050				<0.025		0.1715

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
11/09/2022	B07B	7.1			<0.015	<0.075	0.02579	<0.004	<0.075	<0.050				<0.025		0.1400
11/16/2022	F151B	7.3			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
11/16/2022	F151A	7.2			<0.015	<0.075	0.02081	<0.004	<0.075	0.1731				<0.025		0.2622
11/16/2022	F111B	7.4			<0.015	<0.075	0.2362	0.00748	<0.075	<0.050				<0.025		0.07370
11/16/2022	F111A	7.2			<0.015	<0.075	0.6895	0.0514	<0.075	1.237				<0.025		0.08539
11/16/2022	F53B	7.0			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.3139
11/16/2022	F53A	3.5			<0.015	<0.075	0.1671	0.00731	<0.075	0.1078				<0.025		0.1970
11/22/2022	B130A	7.0			<0.015	<0.075	0.03645	0.00529	<0.075	<0.050				<0.025		0.08957
11/22/2022	B130B	6.9			<0.015	<0.075	<0.020	0.0215	<0.075	<0.050				<0.025		<0.060
11/22/2022	B39A	7.8			<0.015	<0.075	0.05756	<0.004	<0.075	<0.050				<0.025		0.1486
11/22/2022	B39B	7.7			<0.015	<0.075	0.04196	<0.004	<0.075	<0.050				<0.025		0.1034
11/22/2022	B25A	8.0			<0.015	<0.075	0.06932		0.2220	<0.050				<0.025		0.2974
11/22/2022	B25B	7.7			<0.015	0.5323	0.5726	0.0108	<0.075	0.1043				<0.025		0.06727
11/30/2022	F23B	6.9			<0.015	<0.075	0.05891	<0.004	<0.075	<0.050				<0.025		0.06787
11/30/2022	F23A	6.9			<0.015	0.1249	0.1185	0.00990	<0.075	0.1334				<0.025		0.1006
11/30/2022	F98A	7.0			<0.015	0.08311	0.03055	0.00407	<0.075	<0.050				<0.025		0.5831
11/30/2022	F132	10.2			<0.015	<0.075	0.08290	0.0161	<0.075	<0.050				<0.025		0.09291
11/30/2022	F48A	7.1			<0.015	<0.075	0.02365	<0.004	<0.075	<0.050				<0.025		<0.060
12/07/2022	B37A	7.1			<0.015	<0.075	0.03834	<0.004	<0.075	<0.050				<0.025		0.1403
12/07/2022	B37B	7.2			<0.015	<0.075	0.05317	<0.004	<0.075	<0.050				<0.025		0.09847
12/08/2022	B30C	7.6			<0.015	<0.075	0.09100	<0.004	<0.075	<0.050				<0.025		0.1031
12/07/2022	B16A	6.7			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.06027
12/07/2022	B16B	6.7			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		<0.060
12/14/2022	F70B	7.65			<0.015	<0.075	<0.020	<0.004	<0.075	<0.050				<0.025		0.09617
12/14/2022	F70C	5.2			<0.015	<0.075	0.1476	<0.004	<0.075	0.3203				<0.025		0.1858
12/14/2022	F70A	6.6			0.1018	<0.075	1.451	0.568	6.726	6.607				<0.025		0.5441
12/14/2022	F08B	8.1			<0.015	<0.075	0.02444	<0.004	<0.075	<0.050				<0.025		0.2369
12/14/2022	F08A	7.6			<0.015	<0.075	0.3193	0.0378	<0.075	0.08073				0.02564		0.1983
12/21/2022	B91	7.4			<0.015	0.08890	0.2770	0.0693	<0.075	0.9487				0.04150		0.1700
12/21/2022	B34	6.9			<0.015	<0.075	0.02612	<0.004	<0.075	<0.050				<0.025		0.06405
12/21/2022	B08	7.0			<0.015	<0.075	0.03577	<0.004	<0.075	<0.050				<0.025		0.1284
12/21/2022	B47	8.2			<0.015	<0.075	0.1227	<0.004	<0.075	<0.050				<0.025		0.1228
12/21/2022	B92A	7.1			<0.015	<0.075	0.1796	<0.004	<0.075	<0.050				<0.025		0.8798
12/21/2022	B92B	8.6			<0.015	0.2359	0.6722	0.216	<0.075	1.925				0.08600		0.1660

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2022

Date	Location	Initial pH*	Ammonia (ppm)	BOD (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)**	Pb (ppm)	Ni (ppm)	Nitrate+ Nitrite (ppm)	TKN (ppm)	Total Nitrogen (ppm)	Ag (ppm)	TSS (ppm)	Zn (ppm)
12/21/2022	B92C	7.2			<0.015	0.1083	0.2028	0.0419	<0.075	0.7728				<0.025		0.1503
12/28/2022	F07	8.0			<0.015	<0.075	0.4918	0.107	<0.075	0.08593				0.03387		0.3082
12/28/2022	F78A	7.1			<0.015	<0.075	0.04049	0.00950	<0.075	<0.050				<0.025		0.1670
12/28/2022	F44A	7.2			<0.015	<0.075	0.02430	<0.004	<0.075	<0.050				<0.025		0.07201
12/28/2022	F45A	8.5			<0.015	<0.075	0.03559	<0.004	<0.075	<0.050				<0.025		0.06043
12/28/2022	F51	7.0			<0.015	<0.075	0.02467	<0.004	<0.075	<0.050				<0.025		0.1834
12/28/2022	F125A	7.5			<0.015	<0.075	0.06189	<0.004	<0.075	<0.050				<0.025		0.09168
12/28/2022	F120	7.6			<0.015	0.08389	0.06099	0.0382	<0.075	0.1027				<0.025		0.5888

*pH measured on composite sample out of hold time
**Cyanide samples not preserved immeidately upon collection

Table 31: Industrial Manhole Sampling Data

Line Cleaning Sampling Data 2022

Date	Manhole	Parameter	Result	Units
7/11/2022	B_O180027	Cadmium	<0.015	ppm
7/11/2022	B_O180027	Chromium	<0.075	ppm
7/11/2022	B_O180027	Copper	0.05238	ppm
7/11/2022	B_O180027	Lead	<0.075	ppm
7/11/2022	B_O180027	Nickel	<0.050	ppm
7/11/2022	B_O180027	Silver	0.08252	ppm
7/11/2022	B_O180027	Zinc	0.1320	ppm
7/11/2022	B_O180027	Bromoform	<0.001	ppm
7/11/2022	B_O180027	Bromomethane	<0.002	ppm
7/11/2022	B_O180027	Carbon Tetrachloride	<0.001	ppm
7/11/2022	B_O180027	Chloroethane	<0.001	ppm
7/11/2022	B_O180027	Chloroform	0.00183	ppm
7/11/2022	B_O180027	Chloromethane	<0.001	ppm
7/11/2022	B_O180027	Dibromochloromethane	<0.001	ppm
7/11/2022	B_O180027	Methylene Chloride	<0.001	ppm
7/11/2022	B_O180027	Tetrachloroethene	<0.001	ppm
7/11/2022	B_O180027	Trichloroethene	<0.001	ppm
7/11/2022	B_O180027	Trichlorofluoromethane	<0.001	ppm
7/11/2022	B_O180027	Vinyl Chloride	<0.001	ppm
7/11/2022	B_O180027	cis-1,3-Dichloropropene	<0.001	ppm
7/11/2022	B_O180027	trans-1,2-Dichloroethene	<0.001	ppm
7/11/2022	B_O180027	trans-1,3-Dichloropropene	<0.001	ppm
7/11/2022	B_O180027	Bromodichloromethane	<0.001	ppm
7/11/2022	B_O180027	1,2-Dichloropropane	<0.001	ppm
7/11/2022	B_O180027	1,2-Dichloroethane	<0.001	ppm
7/11/2022	B_O180027	1,1-Dichloroethene	<0.001	ppm
7/11/2022	B_O180027	1,1-Dichloroethane	<0.001	ppm
7/11/2022	B_O180027	1,1,2-Trichloroethane	<0.001	ppm
7/11/2022	B_O180027	1,1,1-Trichloroethane	<0.001	ppm
7/11/2022	B_O180027	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/11/2022	B_O180027	Cyanide, Total	<20.000	ppb
7/11/2022	B_O180027	TSS	264.00	mg/l
7/11/2022	B_O180027	Oil and Grease	40.59	ppm
7/11/2022	B_O180027	Benzene	<0.001	ppm
7/11/2022	B_O180027	Chlorobenzene	<0.001	ppm
7/11/2022	B_O180027	Ethylbenzene	<0.001	ppm
7/11/2022	B_O180027	Toluene	0.00436	ppm
7/11/2022	B_O180027	1,4-Dichlorobenzene	<0.001	ppm
7/11/2022	B_O180027	1,3-Dichlorobenzene	<0.001	ppm
7/11/2022	B_O180027	1,2-Dichlorobenzene	<0.001	ppm
7/11/2022	B_O180027	(o) Xylene	<0.001	ppm
7/11/2022	B_O180027	(m & p) Xylene	<0.002	ppm
7/11/2022	B_O180027	Acrylonitrile	<0.001	ppm
7/11/2022	B_O180027	2-Chloroethylvinylether	<0.001	ppm
7/11/2022	B_O180027	Acetone	0.0844	ppm
7/11/2022	B_O180027	Acrolein	<0.001	ppm
10/11/2022	B_L320005	Cadmium	<0.015	ppm
10/11/2022	B_L320005	Chromium	<0.075	ppm
10/11/2022	B_L320005	Copper	0.06014	ppm
10/11/2022	B_L320005	Lead	<0.075	ppm
10/11/2022	B_L320005	Nickel	<0.050	ppm
10/11/2022	B_L320005	Silver	<0.025	ppm
10/11/2022	B_L320005	Zinc	0.1096	ppm

Table 32: Line Cleaning Sampling Data 2022

Line Cleaning Sampling Data 2022

Date	Manhole	Parameter	Result	Units
10/11/2022	B_L320005	1,1-Dichloroethane	<0.010	ppm
10/11/2022	B_L320005	trans-1,2-Dichloroethene	<0.010	ppm
10/11/2022	B_L320005	cis-1,3-Dichloropropene	<0.010	ppm
10/11/2022	B_L320005	Vinyl Chloride	<0.010	ppm
10/11/2022	B_L320005	Trichlorofluoromethane	<0.010	ppm
10/11/2022	B_L320005	Trichloroethene	<0.010	ppm
10/11/2022	B_L320005	Tetrachloroethene	<0.010	ppm
10/11/2022	B_L320005	Methylene Chloride	<0.010	ppm
10/11/2022	B_L320005	Dibromochloromethane	<0.010	ppm
10/11/2022	B_L320005	Chloromethane	<0.010	ppm
10/11/2022	B_L320005	Chloroform	<0.010	ppm
10/11/2022	B_L320005	Chloroethane	<0.010	ppm
10/11/2022	B_L320005	Carbon Tetrachloride	<0.010	ppm
10/11/2022	B_L320005	Bromomethane	<0.020	ppm
10/11/2022	B_L320005	Bromoform	<0.010	ppm
10/11/2022	B_L320005	Bromodichloromethane	<0.010	ppm
10/11/2022	B_L320005	1,1,1-Trichloroethane	<0.010	ppm
10/11/2022	B_L320005	1,1,2,2-Tetrachloroethane	<0.010	ppm
10/11/2022	B_L320005	1,1,2-Trichloroethane	<0.010	ppm
10/11/2022	B_L320005	trans-1,3-Dichloropropene	<0.010	ppm
10/11/2022	B_L320005	1,1-Dichloroethene	<0.010	ppm
10/11/2022	B_L320005	1,2-Dichloroethane	<0.010	ppm
10/11/2022	B_L320005	1,2-Dichloropropane	<0.010	ppm
10/11/2022	B_L320005	Cyanide, Total	<4.000	ppb
10/11/2022	B_L320005	TSS	117.50	mg/l
10/11/2022	B_L320005	Oil and Grease	24.55	ppm
10/11/2022	B_L320005	Acrylonitrile	<0.010	ppm
10/11/2022	B_L320005	Acetone	0.457	ppm
10/11/2022	B_L320005	2-Chloroethylvinylether	<0.010	ppm
10/11/2022	B_L320005	1,4-Dichlorobenzene	<0.010	ppm
10/11/2022	B_L320005	1,3-Dichlorobenzene	<0.010	ppm
10/11/2022	B_L320005	1,2-Dichlorobenzene	<0.010	ppm
10/11/2022	B_L320005	(o) Xylene	<0.010	ppm
10/11/2022	B_L320005	(m & p) Xylene	<0.020	ppm
10/11/2022	B_L320005	Benzene	<0.010	ppm
10/11/2022	B_L320005	Chlorobenzene	<0.010	ppm
10/11/2022	B_L320005	Ethylbenzene	<0.010	ppm
10/11/2022	B_L320005	Toluene	<0.010	ppm
10/11/2022	B_L320005	Acrolein	<0.010	ppm

Table 32: Line Cleaning Sampling Data 2022

Septage Monitoring Data - 2022

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CA95284-BP-SEPTAGE	1/3/2022	<0.015	0.015	<0.075	0.075	0.6132	0.02	0.1018	0.075	<0.050	0.05	<0.025	0.025	1.291	0.06
CA95285-BP-SEPTAGE	1/4/2022	<0.015	0.015	<0.075	0.075	0.6258	0.02	0.08909	0.075	<0.050	0.05	<0.025	0.025	1.128	0.06
CA95286-BP-SEPTAGE	1/6/2022	<0.015	0.015	<0.075	0.075	0.9463	0.02	0.1166	0.075	<0.050	0.05	<0.025	0.025	1.494	0.06
CA95786-BP-SEPTAGE	1/10/2022	<0.075	0.075	<0.375	0.375	3.722	0.1	<0.375	0.375	<0.250	0.25	<0.125	0.125	10.22	0.3
CA95787-BP-SEPTAGE	1/12/2022	<0.015	0.015	<0.075	0.075	1.468	0.02	0.1242	0.075	<0.050	0.05	<0.025	0.025	4.636	0.06
CA95788-BP-SEPTAGE	1/14/2022	<0.015	0.015	<0.075	0.075	1.235	0.02	0.1435	0.075	0.06606	0.05	<0.025	0.025	5.620	0.06
CA96304-BP-SEPTAGE	1/18/2022	<0.015	0.015	<0.075	0.075	0.5347	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.140	0.06
CA96305-BP-SEPTAGE	1/20/2022	<0.015	0.015	<0.075	0.075	2.327	0.02	0.1740	0.075	0.08251	0.05	<0.025	0.025	6.327	0.06
CA96306-BP-SEPTAGE	1/21/2022	<0.015	0.015	<0.075	0.075	0.3416	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.8217	0.06
CA96761-BP-SEPTAGE	1/24/2022	<0.015	0.015	<0.075	0.075	1.504	0.02	<0.075	0.075	0.06470	0.05	<0.025	0.025	4.898	0.06
CA96762-BP-SEPTAGE	1/25/2022	<0.015	0.015	<0.075	0.075	1.787	0.02	0.1250	0.075	0.1015	0.05	<0.025	0.025	6.743	0.06
CA96763-BP-SEPTAGE	1/26/2022	<0.015	0.015	<0.075	0.075	0.2881	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.8292	0.06
CA97283-BP-SEPTAGE	2/1/2022	<0.015	0.015	<0.075	0.075	1.116	0.02	<0.075	0.075	0.07765	0.05	<0.025	0.025	6.001	0.06
CA97284-BP-SEPTAGE	2/2/2022	<0.015	0.015	<0.075	0.075	0.4544	0.02	0.1115	0.075	0.06602	0.05	<0.025	0.025	6.009	0.06
CA97285-BP-SEPTAGE	2/3/2022	<0.015	0.015	<0.075	0.075	9.728	0.02	0.08496	0.075	0.06586	0.05	<0.025	0.025	10.24	0.06
CA97756-BP-SEPTAGE	2/7/2022	<0.015	0.015	<0.075	0.075	12.72	0.02	<0.075	0.075	0.1331	0.05	<0.025	0.025	7.438	0.06
CA97757-BP-SEPTAGE	2/8/2022	<0.015	0.015	<0.075	0.075	1.813	0.02	<0.075	0.075	0.05578	0.05	<0.025	0.025	5.074	0.06
CA97758-BP-SEPTAGE	2/9/2022	<0.015	0.015	<0.075	0.075	2.078	0.02	<0.075	0.075	<0.050	0.05	0.1323	0.025	3.786	0.06
CA98355-BP-SEPTAGE	2/14/2022	<0.015	0.015	<0.075	0.075	5.810	0.02	0.2200	0.075	0.07696	0.05	<0.025	0.025	12.11	0.06
CA98356-BP-SEPTAGE	2/15/2022	<0.015	0.015	<0.075	0.075	3.625	0.02	0.1407	0.075	0.06324	0.05	<0.025	0.025	9.510	0.06
CA98357-BP-SEPTAGE	2/16/2022	<0.015	0.015	<0.075	0.075	5.140	0.02	0.1816	0.075	0.06560	0.05	<0.025	0.025	10.56	0.06
CA98358-BP-SEPTAGE	2/22/2022	<0.015	0.015	<0.075	0.075	2.750	0.02	0.08255	0.075	0.07884	0.05	<0.025	0.025	7.189	0.06
CA98359-BP-SEPTAGE	2/23/2022	<0.015	0.015	0.1206	0.075	9.783	0.02	0.2830	0.075	0.1307	0.05	<0.025	0.025	22.15	0.3
CA98360-BP-SEPTAGE	2/24/2022	<0.015	0.015	0.1684	0.075	13.06	0.02	0.3683	0.075	0.1693	0.05	<0.025	0.025	30.44	0.3
CA99274-BP-SEPTAGE	2/28/2022	<0.015	0.015	<0.075	0.075	2.634	0.02	0.1957	0.075	0.05047	0.05	<0.025	0.025	7.162	0.06
CA99275-BP-SEPTAGE	3/2/2022	<0.015	0.015	<0.075	0.075	3.673	0.02	0.1588	0.075	0.08330	0.05	<0.025	0.025	4.351	0.06
CA99276-BP-SEPTAGE	3/3/2022	<0.015	0.015	<0.075	0.075	1.238	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.427	0.06
CA99766-BP-SEPTAGE	3/7/2022	<0.015	0.015	<0.075	0.075	0.1706	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.7310	0.06
CA99767-BP-SEPTAGE	3/9/2022	<0.015	0.015	<0.075	0.075	0.4941	0.02	0.07633	0.075	<0.050	0.05	<0.025	0.025	1.573	0.06
CA99768-BP-SEPTAGE	3/11/2022	0.02013	0.015	<0.075	0.075	9.379	0.02	0.4052	0.075	0.1182	0.05	<0.025	0.025	17.86	0.06
CB00237-BP-SEPTAGE	3/14/2022	0.02124	0.015	0.1099	0.075	7.604	0.02	0.3179	0.075	0.1754	0.05	<0.025	0.025	14.14	0.06
CB00238-BP-SEPTAGE	3/16/2022	<0.015	0.015	<0.075	0.075	3.373	0.02	0.3314	0.075	0.1103	0.05	<0.025	0.025	12.94	0.06
CB00239-BP-SEPTAGE	3/18/2022	0.01787	0.015	0.09672	0.075	6.846	0.02	0.6328	0.075	0.1329	0.05	<0.025	0.025	7.483	0.06
CB00869-BP-SEPTAGE	3/21/2022	0.02549	0.015	0.07623	0.075	5.209	0.02	0.4188	0.075	0.1247	0.05	0.03023	0.025	14.76	0.06
CB00870-BP-SEPTAGE	3/22/2022	<0.015	0.015	0.09622	0.075	1.877	0.02	0.2710	0.075	0.1112	0.05	<0.025	0.025	11.88	0.06
CB00871-BP-SEPTAGE	3/23/2022	0.02532	0.015	0.1156	0.075	9.109	0.02	0.3524	0.075	0.1418	0.05	0.03305	0.025	16.39	0.06
CB01313-BP-SEPTAGE	3/29/2022	0.02179	0.015	0.08368	0.075	1.403	0.02	0.1650	0.075	0.1442	0.05	<0.025	0.025	21.13	0.3
CB01314-BP-SEPTAGE	3/31/2022	<0.015	0.015	<0.075	0.075	0.8591	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.657	0.06
CB01315-BP-SEPTAGE	4/2/2022	<0.015	0.015	<0.075	0.075	0.4390	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.639	0.06
CB01932-BP-SEPTAGE	4/5/2022	0.01806	0.015	0.09276	0.075	9.469	0.02	0.1112	0.075	0.1275	0.05	0.2351	0.125	23.08	0.6

Table 33: Septage Sampling Data

Septage Monitoring Data - 2022

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CB01933-BP-SEPTAGE	4/6/2022	<0.015	0.015	<0.075	0.075	3.893	0.02	<0.075	0.075	0.07043	0.05	0.1084	0.1	9.076	0.06
CB01934-BP-SEPTAGE	4/7/2022	<0.015	0.015	<0.075	0.075	1.873	0.02	<0.075	0.075	<0.050	0.05	0.06094	0.025	4.535	0.06
CB02410-BP-SEPTAGE	4/11/2022	<0.015	0.015	<0.075	0.075	1.087	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.541	0.06
CB02411-BP-SEPTAGE	4/14/2022	<0.015	0.015	<0.075	0.075	1.522	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.553	0.06
CB02412-BP-SEPTAGE	4/15/2022	<0.015	0.015	<0.075	0.075	2.241	0.02	0.1016	0.075	<0.050	0.05	<0.025	0.025	3.655	0.06
CB02955-BP-SEPTAGE	4/18/2022	<0.015	0.015	<0.075	0.075	1.021	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.887	0.06
CB02956-BP-SEPTAGE	4/19/2022	<0.015	0.015	<0.075	0.075	2.761	0.02	0.08837	0.075	<0.050	0.05	<0.025	0.025	4.797	0.06
CB02957-BP-SEPTAGE	4/20/2022	<0.015	0.015	<0.075	0.075	1.380	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.345	0.06
CB03541-BP-SEPTAGE	4/25/2022	<0.015	0.015	<0.075	0.075	1.421	0.02	0.1361	0.075	0.05695	0.05	<0.025	0.025	4.900	0.06
CB03542-BP-SEPTAGE	4/27/2022	<0.015	0.015	<0.075	0.075	0.4217	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.693	0.06
CB03543-BP-SEPTAGE	4/29/2022	<0.015	0.015	<0.075	0.075	4.327	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.050	0.06
CB04279-BP-SEPTAGE	5/2/2022	0.03738	0.015	0.1491	0.075	69.55	0.2	1.501	0.075	0.2405	0.05	<0.025	0.025	47.66	0.6
CB04280-BP-SEPTAGE	5/3/2022	0.03077	0.015	0.1212	0.075	0.8331	0.02	0.8206	0.075	0.1665	0.05	<0.025	0.025	34.47	0.3
CB04281-BP-SEPTAGE	5/4/2022	0.02264	0.015	<0.075	0.075	3.657	0.02	0.6072	0.075	0.1278	0.05	<0.025	0.025	22.64	0.3
CB04498-BP-SEPTAGE	5/9/2022	0.02767	0.015	0.1158	0.075	0.2637	0.02	0.7345	0.075	0.1667	0.05	<0.025	0.025	25.36	0.3
CB04499-BP-SEPTAGE	5/11/2022	<0.015	0.015	<0.075	0.075	2.272	0.02	0.2283	0.075	0.07486	0.05	<0.025	0.025	11.65	0.06
CB04500-BP-SEPTAGE	5/13/2022	<0.015	0.015	<0.075	0.075	1.560	0.02	0.1678	0.075	0.09205	0.05	<0.025	0.025	4.321	0.06
CB05154-BP-SEPTAGE	5/17/2022	<0.015	0.015	<0.075	0.075	4.409	0.02	0.1746	0.075	0.07500	0.05	<0.025	0.025	9.973	0.06
CB05155-BP-SEPTAGE	5/19/2022	<0.015	0.015	<0.075	0.075	0.8483	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.964	0.06
CB05156-BP-SEPTAGE	5/21/2022	<0.015	0.015	<0.075	0.075	1.450	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.814	0.06
CB05555-BP-SEPTAGE	5/23/2022	<0.015	0.015	0.07838	0.075	0.8539	0.02	0.4104	0.075	0.1392	0.05	<0.025	0.025	14.89	0.06
CB05556-BP-SEPTAGE	5/25/2022	<0.015	0.015	<0.075	0.075	1.146	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.390	0.06
CB05557-BP-SEPTAGE	5/27/2022	<0.015	0.015	<0.075	0.075	0.7829	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.092	0.06
CB06017-BP-SEPTAGE	6/1/2022	<0.015	0.015	<0.075	0.075	0.8386	0.02	<0.075	0.075	0.06915	0.05	<0.025	0.025	4.238	0.06
CB06018-BP-SEPTAGE	6/2/2022	<0.015	0.015	<0.075	0.075	1.120	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.170	0.06
CB06019-BP-SEPTAGE	6/3/2022	<0.015	0.015	<0.075	0.075	1.289	0.02	0.1546	0.075	0.05572	0.05	<0.025	0.025	6.719	0.06
CB06571-BP-SEPTAGE	6/7/2022	<0.015	0.015	<0.075	0.075	3.304	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.212	0.06
CB06572-BP-SEPTAGE	6/8/2022	<0.015	0.015	<0.075	0.075	3.936	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.549	0.06
CB06573-BP-SEPTAGE	6/9/2022	<0.015	0.015	<0.075	0.075	4.651	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.665	0.06
CB07018-BP-SEPTAGE	6/13/2022	<0.015	0.015	<0.075	0.075	0.8882	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	5.316	0.06
CB07019-BP-SEPTAGE	6/14/2022	<0.015	0.015	<0.075	0.075	0.2834	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.8680	0.06
CB07020-BP-SEPTAGE	6/15/2022	<0.015	0.015	<0.075	0.075	0.8632	0.02	<0.075	0.075	0.07824	0.05	<0.025	0.025	1.902	0.06
CB07573-BP-SEPTAGE	6/21/2022	<0.015	0.015	<0.075	0.075	0.9149	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.394	0.06
CB07574-BP-SEPTAGE	6/23/2022	<0.015	0.015	<0.075	0.075	0.8353	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.506	0.06
CB07575-BP-SEPTAGE	6/24/2022	<0.015	0.015	<0.075	0.075	2.401	0.02	0.1010	0.075	<0.050	0.05	<0.025	0.025	3.929	0.06
CB08033-BP-SEPTAGE	6/28/2022	0.01970	0.015	0.08835	0.075	3.183	0.02	0.2993	0.075	0.09864	0.05	<0.025	0.025	11.39	0.06
CB08034-BP-SEPTAGE	6/29/2022	0.02155	0.015	0.08036	0.075	8.272	0.02	0.3682	0.075	0.2276	0.05	<0.025	0.025	28.68	0.6
CB08035-BP-SEPTAGE	6/30/2022	<0.015	0.015	<0.075	0.075	2.947	0.02	0.4730	0.075	0.07629	0.05	<0.025	0.025	10.15	0.06
CB08411-BP-SEPTAGE	7/5/2022	<0.015	0.015	<0.075	0.075	0.8782	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.957	0.06
CB08412-BP-SEPTAGE	7/6/2022	<0.015	0.015	<0.075	0.075	0.8832	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.937	0.06

Table 33: Septage Sampling Data

Septage Monitoring Data - 2022

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CB08413-BP-SEPTAGE	7/7/2022	<0.015	0.015	<0.075	0.075	0.7774	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.769	0.06
CB09261-BP-SEPTAGE	7/12/2022	<0.015	0.015	<0.075	0.075	3.877	0.02	0.6602	0.075	0.1024	0.05	<0.025	0.025	8.168	0.06
CB09262-BP-SEPTAGE	7/13/2022	<0.015	0.015	<0.075	0.075	0.8679	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.966	0.06
CB09263-BP-SEPTAGE	7/14/2022	<0.015	0.015	<0.075	0.075	1.301	0.02	0.08493	0.075	<0.050	0.05	<0.025	0.025	3.139	0.06
CB09687-BP-SEPTAGE	7/18/2022	<0.015	0.015	<0.075	0.075	2.465	0.02	0.09213	0.075	0.05764	0.05	<0.025	0.025	6.643	0.06
CB09688-BP-SEPTAGE	7/19/2022	<0.015	0.015	<0.075	0.075	1.888	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	7.178	0.06
CB09689-BP-SEPTAGE	7/21/2022	<0.015	0.015	<0.075	0.075	0.2433	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.9917	0.06
CB10183-BP-SEPTAGE	7/28/2022	<0.015	0.015	<0.075	0.075	2.862	0.02	0.1771	0.075	0.06842	0.05	<0.025	0.025	8.722	0.06
CB10184-BP-SEPTAGE	7/29/2022	<0.015	0.015	<0.075	0.075	0.2061	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.409	0.06
CB10185-BP-SEPTAGE	7/30/2022	<0.015	0.015	<0.075	0.075	0.5674	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.129	0.06
CB10785-BP-SEPTAGE	8/1/2022	0.02367	0.015	0.1356	0.075	0.2312	0.02	0.5223	0.075	0.1638	0.05	<0.025	0.025	21.17	0.3
CB10786-BP-SEPTAGE	8/3/2022	0.04004	0.015	0.1662	0.075	20.31	0.02	0.8329	0.075	0.2777	0.05	0.03860	0.025	40.46	0.3
CB10787-BP-SEPTAGE	8/5/2022	<0.015	0.015	<0.075	0.075	5.843	0.02	0.1975	0.075	0.1064	0.05	<0.025	0.025	11.44	0.06
CB11178-BP-SEPTAGE	8/9/2022	<0.015	0.015	<0.075	0.075	1.307	0.02	0.08020	0.075	<0.050	0.05	<0.025	0.025	5.095	0.06
CB11179-BP-SEPTAGE	8/11/2022	0.01687	0.015	<0.075	0.075	0.1815	0.02	0.4051	0.075	0.1346	0.05	<0.025	0.025	11.60	0.06
CB11180-BP-SEPTAGE	8/12/2022	<0.015	0.015	<0.075	0.075	0.1038	0.02	0.1128	0.075	0.06614	0.05	<0.025	0.025	10.39	0.06
CB11806-BP-SEPTAGE	8/17/2022	<0.015	0.015	<0.075	0.075	0.8412	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.492	0.06
CB11807-BP-SEPTAGE	8/18/2022	<0.015	0.015	<0.075	0.075	1.513	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.352	0.06
CB11808-BP-SEPTAGE	8/19/2022	<0.015	0.015	<0.075	0.075	0.9111	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.778	0.06
CB12139-BP-SEPTAGE	8/24/2022	<0.015	0.015	<0.075	0.075	0.8045	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.384	0.06
CB12140-BP-SEPTAGE	8/25/2022	<0.015	0.015	<0.075	0.075	0.8081	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.951	0.06
CB12141-BP-SEPTAGE	8/26/2022	<0.015	0.015	<0.075	0.075	2.184	0.02	<0.075	0.075	0.05755	0.05	<0.025	0.025	5.680	0.06
CB12884-BP-SEPTAGE	8/29/2022	<0.015	0.015	<0.075	0.075	4.131	0.02	0.3425	0.075	0.09242	0.05	<0.025	0.025	9.608	0.06
CB12885-BP-SEPTAGE	8/31/2022	<0.015	0.015	<0.075	0.075	1.028	0.02	0.1017	0.075	<0.050	0.05	<0.025	0.025	3.744	0.06
CB12886-BP-SEPTAGE	9/2/2022	<0.015	0.015	<0.075	0.075	3.380	0.02	0.1064	0.075	0.09445	0.05	<0.025	0.025	3.857	0.06
CB13396-BP-SEPTAGE	9/6/2022	<0.015	0.015	<0.075	0.075	3.073	0.02	0.1912	0.075	<0.050	0.05	<0.025	0.025	3.135	0.06
CB13397-BP-SEPTAGE	9/8/2022	0.6191	0.015	0.2342	0.075	23.31	0.02	1.626	0.075	0.2496	0.05	<0.025	0.025	36.49	0.3
CB13398-BP-SEPTAGE	9/10/2022	0.05604	0.015	0.2656	0.075	28.35	0.02	1.014	0.075	0.3338	0.05	<0.025	0.025	48.90	0.3
CB13935-BP-SEPTAGE	9/12/2022	0.1597	0.015	0.08718	0.075	14.78	0.02	0.6161	0.075	0.1396	0.05	<0.025	0.025	11.73	0.06
CB13936-BP-SEPTAGE	9/14/2022	0.01501	0.015	0.09352	0.075	6.633	0.02	0.2581	0.075	0.1326	0.05	<0.025	0.025	22.17	0.3
CB13937-BP-SEPTAGE	9/16/2022	<0.015	0.015	<0.075	0.075	7.123	0.02	0.2326	0.075	0.06529	0.05	<0.025	0.025	8.557	0.06
CB14399-BP-SEPTAGE	9/21/2022	<0.015	0.015	<0.075	0.075	0.9137	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.894	0.06
CB14400-BP-SEPTAGE	9/22/2022	<0.015	0.015	<0.075	0.075	1.416	0.02	<0.075	0.075	0.09371	0.05	<0.025	0.025	5.180	0.06
CB14401-BP-SEPTAGE	9/23/2022	0.02040	0.015	<0.075	0.075	0.8603	0.02	0.1459	0.075	0.08321	0.05	<0.025	0.025	9.813	0.06
CB14957-BP-SEPTAGE	9/26/2022	<0.015	0.015	<0.075	0.075	2.215	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.039	0.06
CB14958-BP-SEPTAGE	9/27/2022	<0.015	0.015	<0.075	0.075	0.1781	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.014	0.06
CB14959-BP-SEPTAGE	9/28/2022	<0.015	0.015	<0.075	0.075	0.2313	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.173	0.06
CB15493-BP-SEPTAGE	10/4/2022	<0.015	0.015	<0.075	0.075	1.123	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.040	0.06
CB15492-BP-SEPTAGE	10/5/2022	<0.015	0.015	<0.075	0.075	2.818	0.02	0.1311	0.075	0.06434	0.05	<0.025	0.025	7.372	0.06
CB15491-BP-SEPTAGE	10/6/2022	<0.015	0.015	<0.075	0.075	2.126	0.02	0.1197	0.075	0.06049	0.05	<0.025	0.025	6.799	0.06

Table 33: Septage Sampling Data

Septage Monitoring Data - 2022

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CB16036-BP-SEPTAGE	10/11/2022	0.01605	0.015	0.08696	0.075	10.51	0.02	0.2827	0.075	0.1400	0.05	<0.025	0.025	11.83	0.06
CB16037-BP-SEPTAGE	10/14/2022	0.01564	0.015	0.08209	0.075	9.659	0.02	0.2764	0.075	0.1224	0.05	<0.025	0.025	15.51	0.06
CB16038-BP-SEPTAGE	10/15/2022	<0.015	0.015	<0.075	0.075	1.449	0.02	0.1506	0.075	0.05362	0.05	<0.025	0.025	5.858	0.06
CB16489-BP-SEPTAGE	10/17/2022	<0.015	0.015	<0.075	0.075	0.1705	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.655	0.06
CB16490-BP-SEPTAGE	10/18/2022	<0.015	0.015	<0.075	0.075	1.771	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.575	0.06
CB16491-BP-SEPTAGE	10/19/2022	<0.015	0.015	<0.075	0.075	1.379	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.561	0.06
CB17017-BP-SEPTAGE	10/24/2022	<0.015	0.015	<0.075	0.075	0.7286	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.330	0.06
CB17018-BP-SEPTAGE	10/26/2022	<0.015	0.015	<0.075	0.075	2.129	0.02	0.1355	0.075	0.05137	0.05	<0.025	0.025	6.988	0.06
CB17019-BP-SEPTAGE	10/28/2022	<0.015	0.015	<0.075	0.075	0.6679	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.541	0.06
CB17456-BP-SEPTAGE	11/1/2022	<0.015	0.015	<0.075	0.075	1.020	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.953	0.06
CB17457-BP-SEPTAGE	11/2/2022	<0.015	0.015	<0.075	0.075	3.171	0.02	0.1177	0.075	0.07107	0.05	<0.025	0.025	8.137	0.06
CB17458-BP-SEPTAGE	11/3/2022	<0.015	0.015	<0.075	0.075	0.7633	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.5751	0.06
CB17981-BP-SEPTAGE	11/7/2022	<0.015	0.015	<0.075	0.075	2.031	0.02	<0.075	0.075	0.07363	0.05	<0.025	0.025	8.447	0.06
CB17982-BP-SEPTAGE	11/9/2022	<0.015	0.015	<0.075	0.075	0.5598	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.953	0.06
CB17983-BP-SEPTAGE	11/12/2022	<0.015	0.015	<0.075	0.075	0.9452	0.02	<0.075	0.075	0.06338	0.05	<0.025	0.025	4.687	0.06
CB18533-BP-SEPTAGE	11/14/2022	<0.015	0.015	<0.075	0.075	2.107	0.02	0.1456	0.075	0.05777	0.05	<0.025	0.025	7.122	0.06
CB18534-BP-SEPTAGE	11/15/2022	<0.015	0.015	<0.075	0.075	1.966	0.02	<0.075	0.075	0.06636	0.05	<0.025	0.025	3.486	0.06
CB18535-BP-SEPTAGE	11/16/2022	<0.015	0.015	<0.075	0.075	1.456	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.519	0.06
CB18968-BP-SEPTAGE	11/22/2022	<0.015	0.015	<0.075	0.075	6.623	0.02	0.09647	0.075	0.3388	0.05	<0.025	0.025	4.691	0.06
CB18969-BP-SEPTAGE	11/23/2022	<0.015	0.015	<0.075	0.075	12.70	0.02	0.2112	0.075	0.5354	0.05	<0.025	0.025	9.756	0.06
CB18970-BP-SEPTAGE	11/26/2022	<0.015	0.015	<0.075	0.075	0.09475	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	0.7126	0.06
CB19610-BP-SEPTAGE	11/30/2022	<0.015	0.015	<0.075	0.075	1.860	0.02	0.1138	0.075	0.05652	0.05	<0.025	0.025	10.06	0.06
CB19611-BP-SEPTAGE	12/1/2022	<0.015	0.015	<0.075	0.075	0.3793	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.123	0.06
CB19612-BP-SEPTAGE	12/2/2022	<0.015	0.015	<0.075	0.075	0.2857	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.796	0.06
CB20129-BP-SEPTAGE	12/5/2022	0.03295	0.015	0.1507	0.075	1.110	0.02	0.3883	0.075	0.2461	0.05	<0.025	0.025	38.75	0.3
CB20130-BP-SEPTAGE	12/7/2022	<0.015	0.015	0.09692	0.075	10.07	0.02	1.365	0.075	0.1104	0.05	<0.025	0.025	15.66	0.06
CB20131-BP-SEPTAGE	12/9/2022	<0.015	0.015	<0.075	0.075	4.968	0.02	0.3753	0.075	0.06305	0.05	<0.025	0.025	5.819	0.06
CB20562-BP-SEPTAGE	12/12/2022	0.01817	0.015	<0.075	0.075	0.8166	0.02	0.4488	0.075	0.1611	0.05	<0.025	0.025	18.67	0.06
CB20563-BP-SEPTAGE	12/13/2022	<0.015	0.015	<0.075	0.075	24.86	0.02	0.4807	0.075	0.1181	0.05	<0.025	0.025	14.31	0.06
CB20564-BP-SEPTAGE	12/14/2022	<0.015	0.015	<0.075	0.075	3.751	0.02	0.2241	0.075	0.09695	0.05	<0.025	0.025	10.34	0.06
CB21122-BP-SEPTAGE	12/19/2022	<0.015	0.015	<0.075	0.075	0.5480	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.888	0.06
CB21123-BP-SEPTAGE	12/21/2022	0.02112	0.015	0.1211	0.075	12.55	0.02	0.7859	0.075	0.2588	0.05	<0.025	0.025	24.99	0.3
CB21124-BP-SEPTAGE	12/22/2022	<0.015	0.015	<0.075	0.075	0.6841	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.948	0.06
CB21575-BP-SEPTAGE	12/28/2022	<0.015	0.015	<0.075	0.075	1.029	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.561	0.06
CB21576-BP-SEPTAGE	12/29/2022	<0.015	0.015	<0.075	0.075	0.3021	0.02	<0.075	0.075	0.09033	0.05	<0.025	0.025	2.259	0.06
CB21577-BP-SEPTAGE	12/30/2022	<0.015	0.015	<0.075	0.075	0.3888	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.942	0.06

Table 33: Septage Sampling Data

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

Year	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Total Metals	Total Septage Volume (MGY)
1996	4.5	77.6	946.0	167.0	33.9	19.6	1414	2663	14.760
1997	3.9	33.2	806.0	113.0	27.4	10.3	1060	2054	14.220
1998	4.5	29.2	830.0	93.0	31.0	5.7	1016	2009	17.530
1999	3.4	26.5	623.0	61.0	20.0	4.1	849	1587	21.500
2000	2.8	21.8	591.0	53.0	26.7	4.1	873	1572	23.340
2001	1.5	20.7	436.0	42.3	22.4	4.2	633	1160	17.390
2002	0.95	8.2	322.6	30.4	22.8	33.1	473	892	17.036
2003	0.89	3.8	196.4	15.9	7.1	4.2	299	527	13.033
2004	0.90	5.0	256.3	15.9	8.9	3.3	321	612	9.100
2005	0.93	7.9	349.9	25.5	11.3	1.9	458	855	8.961
2006	1.4	8.8	416.0	24.2	13.2	3.3	495	961	9.363
2007	1.5	11.5	532.3	28.2	14.8	4.2	604.8	1197	8.526
2008	2.8	10.5	440.3	19.8	9.5	5.3	508.0	996	9.301
2009	1.5	12.1	435.4	23.0	11.6	4.2	554.4	1042	9.080
2010	1.4	12.5	505.1	30.7	15.5	3.3	639.8	1208	8.023
2011	1.6	21.1	558.4	35.8	16.8	5.1	745.3	1384	7.069
2012	1.6	17.7	775.6	39.0	22.5	3.4	988.6	1848	7.077
2013	1.9	9.7	545.4	35.9	17.0	5.0	687.9	1303	7.242
2014	1.5	10.5	606.7	36.2	15.9	7.0	780.8	1459	7.922
2015	1.5	10.5	547.7	37.9	14.3	3.1	950.3	1565	8.421
2016	1.2	6.8	399.6	25.4	8.8	2.9	657.8	1102	7.839
2017	1.2	6.2	494.2	24.2	10.6	2.9	699.6	1239	7.683
2018	2.1	5.6	395.1	19.2	6.1	2.5	587.8	1019	7.272
2019	1.5	6.7	539.6	28.0	10.0	2.6	809.3	1398	8.171
2020*	1.6	8.3	489.0	50.5	9.6	2.6	751.1	1313	7.775
2021	1.3	6.6	370.5	21.0	7.7	3.0	648.5	1059	8.759
2022	1.6	5.8	258.4	14.3	6.0	2.0	572.2	860	8.335

* 2020 loads include estimates for April, May, and June when sampling was discontinued due to COVID-19 pandemic response. The average concentrations from months with data were used with the monthly septage volumes for April, May, and June to derive estimates of monthly load, included in the annual total.

Table 34: Septage Summary 1996-2021

Field's Point and Bucklin Point 2022 Stormwater Sampling Results

Date	Location	Fecal Coliform Bacteria (MPN/100mL)
2/3/2022	FP Stormwater Wet Weather Drain - Outfall 002-Y	<30.0
2/3/2022	FP Stormwater Aeration Drain - Outfall 003-Y	90.0
2/3/2022	FP Stormwater Final Clarifier - Outfall 004-Y	<30.0
2/3/2022	BP Stormwater North Diversion Structure - Outfall 006-Y	<30.0
2/3/2022	FP Stormwater Manhole on Terminal Road Storm Line - Outfall 007-Y	<30.0
2/3/2022	BP Stormwater Catch Basin North of GBT Building - Outfall 003	40.0
2/3/2022	FP Stormwater Storm Water Basin #1 - Outfall 005-Y	<30.0
2/3/2022	BP Stormwater North Drainage Gate - Outfall 005	430.0
2/3/2022	FP Stormwater Gravity Thickener - Outfall 001-Y	40.0
2/3/2022	BP Stormwater South Drainage Gate - Outfall 007	<30.0
2/3/2022	FP Stormwater Storm Water Basin #2 - Outfall 006-Y	9300.0
2/3/2022	FP Stormwater ES-TPS Oil/Water Separator - Outfall 008-Y	430.0
2/3/2022	BP Stormwater Catch Basin South of GBT Building - Outfall 004	150.0
3/24/2022	FP Stormwater ES-TPS Oil/Water Separator - Outfall 008-Y	40.0
3/24/2022	FP Stormwater Gravity Thickener - Outfall 001-Y	40.0
3/24/2022	FP Stormwater Wet Weather Drain - Outfall 002-Y	430.0
3/24/2022	FP Stormwater Aeration Drain - Outfall 003-Y	70.0
3/24/2022	FP Stormwater Final Clarifier - Outfall 004-Y	70.0
3/24/2022	FP Stormwater Manhole on Terminal Road Storm Line - Outfall 007-Y	90.0
3/24/2022	FP Stormwater Storm Water Basin #1 - Outfall 005-Y	<30.0
3/24/2022	BP Stormwater North Diversion Structure - Outfall 006-Y	430.0
3/24/2022	FP Stormwater Storm Water Basin #2 - Outfall 006-Y	1500.0
3/24/2022	BP Stormwater Catch Basin North of GBT Building - Outfall 003	<30.0
3/24/2022	BP Stormwater North Drainage Gate - Outfall 005	90.0
3/24/2022	BP Stormwater South Drainage Gate - Outfall 007	<30.0
3/24/2022	BP Stormwater Catch Basin South of GBT Building - Outfall 004	150.0
8/22/2022	BP Stormwater North Diversion Structure - Outfall 006-Y	230.0
8/22/2022	BP Stormwater North Drainage Gate - Outfall 005	90.0
8/22/2022	BP Stormwater South Drainage Gate - Outfall 007	40.0
8/22/2022	FP Stormwater Wet Weather Drain - Outfall 002-Y	24000.0
8/22/2022	BP Stormwater Catch Basin North of GBT Building - Outfall 003	230.0
8/22/2022	BP Stormwater Catch Basin South of GBT Building - Outfall 004	40.0
8/22/2022	FP Stormwater Final Clarifier - Outfall 004-Y	15000.0
8/22/2022	FP Stormwater Manhole on Terminal Road Storm Line - Outfall 007-Y	9300.0
8/22/2022	FP Stormwater Storm Water Basin #2 - Outfall 006-Y	15000.0
8/22/2022	FP Stormwater ES-TPS Oil/Water Separator - Outfall 008-Y	430.0
8/22/2022	FP Stormwater Storm Water Basin #1 - Outfall 005-Y	<30.0
8/22/2022	FP Stormwater Aeration Drain - Outfall 003-Y	4300.0
8/22/2022	FP Stormwater Gravity Thickener - Outfall 001-Y	9300.0
9/22/2022	BP Stormwater North Diversion Structure - Outfall 006-Y	110000.0
9/22/2022	BP Stormwater Catch Basin North of GBT Building - Outfall 003	24000.0
9/22/2022	BP Stormwater North Drainage Gate - Outfall 005	9300.0
9/22/2022	BP Stormwater South Drainage Gate - Outfall 007	230.0
9/22/2022	BP Stormwater Catch Basin South of GBT Building - Outfall 004	9300.0
9/22/2022	FP Stormwater Gravity Thickener - Outfall 001-Y	1500.0
9/22/2022	FP Stormwater Aeration Drain - Outfall 003-Y	9300.0
9/22/2022	FP Stormwater Wet Weather Drain - Outfall 002-Y	1500.0
9/22/2022	FP Stormwater Final Clarifier - Outfall 004-Y	46000.0
9/22/2022	FP Stormwater Storm Water Basin #1 - Outfall 005-Y	150.0
9/22/2022	FP Stormwater Storm Water Basin #2 - Outfall 006-Y	9300.0
9/22/2022	FP Stormwater ES-TPS Oil/Water Separator - Outfall 008-Y	1500.0
9/22/2022	FP Stormwater Manhole on Terminal Road Storm Line - Outfall 007-Y	24000.0

Table 35: Field's Point and Bucklin Point Stormwater Sampling Data

River and Bay Nutrients Data
2022

									NUTRIENT PARAMETERS											
Collection Date	**Collection Time**	**Sample ID**	**Station**	**Associated Blank**	**Waterbody**	**Depth (meters)**	**Salinity (ppt)**	**Temp (°C)**	**pH**	**NO_3+NO_2 (ppb N)**	**NO_2 (ppb N)**	**NO_3 (ppb N)**	**NH_3 (ppb N)**	**Ortho-Phosphate (ppb P)**	**Silicate (ppb Si)**	**Total Nitrogen (ppb N)**	**Total Dissolved Nitrogen (ppb N)**	**TSS (ppm)**	**Chl *a* (µg/L)**	**Phaeo-phytin *a* (µg/L)**	**Comments**
1/12/2022	8:40:00 AM	CA95519	Nutrient Blank	CA95519	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
1/12/2022	9:25:00 AM	CA95520	Blackstone River @ Slater Mill	CA95519	RIVER	0.5	0.22	0.13	7.23	694	8.51	685	28.5	7.38	3350	892	907	4.1905			
1/12/2022	8:30:00 AM	CA95521	Pawtuxet River @ Broad St.	CA95519	RIVER	0.5	0.11	0.93	7.48	725	6.03	719	25.5	16.8	2380	959	952	2.5			
1/12/2022	8:30:00 AM	CA95522	Pawtuxet River @ Broad St. (Duplicate)	CA95519	RIVER	0.5	0.11	0.93	7.48	726	6.18	720	29.5	17.3	2290	929	961	3.1372			
1/12/2022	10:25:00 AM	CA95523	Woonasquatucket River @ Valley St.	CA95519	RIVER	0.5	0.18	0.05	7.08	647	4.02	643	33.6	<5.0	2990	923	867	13.774			
1/12/2022	12:45:00 PM	CA95524	Woonasquatucket River @ Manton Ave. Bridge	CA95519	RIVER	0.5	0.15	1.26	7.27	568	4.15	564	44.4	<5.0	2920	909	797	24.078			
1/12/2022	10:00:00 AM	CA95525	Moshassuck River @ Footbridge at Mill St.	CA95519	RIVER	0.5	0.25	1.22	7.25	633	7.07	626	88.9	11.6	4000	807	927	2.2641			
1/12/2022	9:40:00 AM	CA95526	Moshassuck River @ Higginson Ave	CA95519	RIVER	0.5	0.25	1.78	6.98	491	4.85	486	27.8	5.43	3920	682	688	3.7037			
1/12/2022	1:15:00 PM	CA95527	Ten Mile River @ Roger Williams Ave	CA95519	RIVER	0.5	0.25	1.17	7.09	1700	39.1	1660	263	16.2	3920	2260	2410	2.7368			
1/12/2022	1:35:00 PM	CA95528	Phillipsdale Landing Surface	CA95519	BAY	0.5	5.95	1.23	7.15	690	8.4	682	60.5	60.4	2760	1050	992	3.7895			
1/12/2022	1:40:00 PM	CA95529	Phillipsdale Landing Bottom	CA95519	BAY	2.49	19.14	3.87	7.49	480	6.95	473	56.9	37.9	2270	862	749	10.213			
1/13/2022	10:40:00 AM	CA94133	Nutrient Blank	CA94133	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
1/13/2022	1:00:00 PM	CA94134	Conimicut Point Surface	CA94133	BAY	0.5	20.89	3.65	8.01	350	4.8	345	63.2	49	1380	756	594	8.7379	0.39495	0.36222	
1/13/2022	1:00:00 PM	CA94135	Conimicut Point Surface (Duplicate)	CA94133	BAY	0.5	20.89	3.65	8.01	348	4.93	343	64.7	48.8	1310	673	569		0.53349	0.35427	TSS sample was dropped and top came off. Sample was cancellec
1/13/2022	10:00:00 AM	CA94137	Edgewood Yacht Club Surface	CA94133	BAY	0.5	23.19	3.25	8.05	536	7.61	528	112	70.9	2130	952	856	4.6154	0.42075	0.49008	
1/13/2022	10:30:00 AM	CA94139	Pomham Rocks Surface	CA94133	BAY	0.5	23.88	3.79	7.82	583	8.48	575	65.7	53.9	2260	972	873	7.2549	<0.300	0.1396	
1/13/2022	2:00:00 PM	CA94141	India Point Park Surface	CA94133	BAY	0.5	9.45	2.53	7.64	636	8.74	627	94.8	65.6	2550	1140	938	5.9048	0.31239	0.41088	
1/13/2022	12:45:00 PM	CA94143	Bullock Reach Buoy Surface	CA94133	BAY	0.5	21.64	4.16	7.87	425	7.51	417	126	76.8	1660	564	755	6.7347	<0.300	0.31137	
1/13/2022	10:15:00 AM	CA94145	Pawtuxet Cove Surface	CA94133	BAY	0.5	6.11	2.51	8.02	756	4.47	752	41.5	22.8	2750	929	1030	2.8	0.5649	0.546	
1/26/2022	10:00:00 AM	CA96326	Nutrient Blank	CA96326	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
1/26/2022	9:10:00 AM	CA96327	Blackstone River @ Slater Mill	CA96326	RIVER	0.5	0.21	1.32	7.41	747	10.7	736	27.3	7.29	3340	945	946	3			
1/26/2022	9:10:00 AM	CA96328	Blackstone River @ Slater Mill (Duplicate)	CA96326	RIVER	0.5	0.21	1.32	7.41	750	10.7	739	33.2	8.14	3750	957	955	2.9412			
1/26/2022	10:30:00 AM	CA96329	Blackstone River @ Stateline	CA96326	RIVER	0.5	0.2	1.21	7.54	665	10.4	655	<7.000	10.7	3270	867	878	2.268			
1/26/2022	9:40:00 AM	CA96330	Blackstone River @ Bikepath Bridge	CA96326	RIVER	0.5	0.21	1.71	7.53	742	8.21	734	14.2	8.8	3550	951	967	<2.0000			
1/26/2022	8:40:00 AM	CA96331	Pawtuxet River @ Broad St.	CA96326	RIVER	0.5	0.12	1.22	7.32	925	4.09	921	40.2	12.7	3160	1090	1150	<2.0000			
1/26/2022	2:10:00 PM	CA96332	Woonasquatucket River @ Valley St.	CA96326	RIVER	0.5	0.17	2.13	7.53	698	4	694	13.5	<5.0	3160	909	887	8.4			
1/26/2022	1:40:00 PM	CA96333	Moshassuck River @ Footbridge at Mill St.	CA96326	RIVER	0.5	0.25	2.74	7.61	598	6.7	591	55.8	19.1	4010	774	874	2.2222			
1/26/2022	1:00:00 PM	CA96334	Moshassuck River @ Higginson Ave	CA96326	RIVER	0.5	0.26	2.83	7.52	581	5.35	576	27.1	5.68	4020	752	776	<2.0000			
1/26/2022	9:05:00 AM	CA96335	Nutrient Blank	CA96335	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
1/26/2022	10:05:00 AM	CA96336	Warren Reservoir/Kickemuit Rive	CA96335	RIVER	0.5	0.13	1.802	6.66	889	9.77	879	88	8.31	3360	1240	1270	<2.0000			
1/26/2022	9:45:00 AM	CA96337	Coles River @ Milford Rd.	CA96335	RIVER	0.5	0.08	2.07	7	326	4.72	321	16.9	10.4	2950	673	684	<2.0000			
1/26/2022	10:55:00 AM	CA96338	Palmer River @ Rt. 6	CA96335	RIVER	0.5	0.88	0.212	6.68	565	5.24	560	44.9	7.29	4430	933	913	2.3077			
1/26/2022	12:40:00 PM	CA96339	Runnins River @ River Rd.	CA96335	RIVER	0.5	0.32	0.65	6.96	909	16.3	893	54.5	<5.0	5150	1140	1220	<2.0000			
1/26/2022	9:10:00 AM	CA96340	Taunton River @ Berkley Bridge	CA96335	RIVER	0.5	0.18	0.718	7.3	760	22.3	738	160	41.6	4020	1160	1240	2.8302			
1/26/2022	9:10:00 AM	CA96341	Taunton River @ Berkley Bridge (Duplicate	CA96335	RIVER	0.5	0.18	0.718	7.3	759	21.7	737	160	43.1	4130	1170	1240	2.4762			
1/26/2022	1:05:00 PM	CA96342	Ten Mile River @ Roger Williams Ave	CA96335	RIVER	0.5	0.28	2.69	6.9	1580	25.3	1550	265	14.1	3530	2120	2110	6.8			
1/26/2022	2:20:00 PM	CA96343	Ten Mile River @ Central Ave	CA96335	RIVER	0.5	0.31	2.79	7.54	1750	16.6	1730	189	11	4010	2250	2290	5.2			
1/26/2022	1:20:00 PM	CA96344	Phillipsdale Landing Surface	CA96335	BAY	0.5	7.74	1.697	7.11	1010	8.09	1000	85.1	195	3200	1410	1380	9.2	1.4934	1.0431	
1/26/2022	1:25:00 PM	CA96345	Phillipsdale Landing Bottom	CA96335	BAY	1.7	24.03	3.694	7.52	124	1.55	122	24.5	21.5	646	438	276	46.6			
2/9/2022	10:20:00 AM	CA96307	Nutrient blank	CA96307	BAY					19	<1.5	19	<7.000	<5.0	<20.000	<200.000	<100.000				
2/9/2022	12:50:00 PM	CA96308	Conimicut Point Surface	CA96307	BAY	0.5	18.81	3.196	7.85	210	4.19	206	50.3	6.14	1070	589	487	10.204	18.06	2.6425	
2/9/2022	12:55:00 PM	CA96309	Conimicut Point Bottom	CA96307	BAY					<6.000	<1.5	<6.0	<14.000	<5.0	<20.000	327	105	16.768			Ammonia sample diluted due to matrix interference
2/9/2022	10:25:00 AM	CA96310	Edgewood Yacht Club Surface	CA96307	BAY	0.5	17.7	2.114	8.12	260	6.73	253	111	9.95	1120	722	541	11	15.12	3.8994	
2/9/2022	10:30:00 AM	CA96311	Edgewood Yacht Club Bottom	CA96307	BAY					13.8	<1.5	13.8	<14.000	<5.0	25.7	436	123	38.0000			Ammonia sample diluted due to matrix interference
2/9/2022	10:40:00 AM	CA96312	Pomham Rocks Surface	CA96307	BAY	0.5	14.18	2.462	8.15	316	5.24	311	69.1	11.9	1670	698	551	7.2549	12.343	2.0468	
2/9/2022	10:40:00 AM	CA96313	Pomham Rocks Surface (Duplicate)	CA96307	BAY	0.5	14.18	2.462	8.15	316	4.79	311	69.2	11.9	1620	714	563	8.421	11.997	2.2659	
2/9/2022	10:45:00 AM	CA96314	Pomham Rocks Bottom	CA96307	BAY					60.5	<1.5	60.5	9.15	<5.0	291	504	199	16.538			
2/9/2022	1:50:00 PM	CA96315	India Point Park Surface	CA96307	BAY	0.5	5.65	2.702	7.49	485	7.61	477	98.7	18.1	2530	888	787	9.697	4.9416	2.1007	
2/9/2022	1:55:00 PM	CA96316	India Point Park Bottom	CA96307	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	372	115	41.263			
2/9/2022	1:05:00 PM	CA96317	Bullock Reach Buoy Surface	CA96307	BAY	0.5	16.99	3.473	8.01	261	5.1	256	58.2	9.58	1350	678	503	8.6	12.227	2.6635	
2/9/2022	1:10:00 PM	CA96318	Bullock Reach Buoy Bottom	CA96307	BAY					<6.000	<1.5	<6.0	<14.000	<5.0	26.2	324	183	9.7727			Ammonia sample diluted due to matrix interference
2/9/2022	1:25:00 PM	CA96319	Pawtuxet Cove Surface	CA96307	BAY	0.5	1.28	2.437	7.08	538	6.18	532	65.6	6.92	2500	869	797	3.7255	3.4266	1.5356	
2/9/2022	1:30:00 PM	CA96320	Pawtuxet Cove Bottom	CA96307	BAY					196	3.42	193	47.7	<5.0	970	597	421	13.111			
2/9/2022	2:15:00 PM	CA96321	Edgewood Shoal Surface	CA96307	BAY	0.5	14.54	3.7	7.81	366	9.35	357	152	15.4	1600	813	752	23.2	8.6202	2.86	
2/9/2022	2:20:00 PM	CA96322	Edgewood Shoal Bottom	CA96307	BAY					62.7	<1.5	62.7	20.2	<5.0	301	435	230	28.2			
2/9/2022	8:45:00 AM	CA97286	Nutrient blank	CA97286	RIVER					14.4	<1.5	14.4	<7.000	<5.0	<20.000	<200.000	<100.000				
2/9/2022	9:30:00 AM	CA97287	Blackstone River @ Slater Mill	CA97286	RIVER	0.5	0.27	1.45	7.45	498	14.5	483	117	10.7	2970	901	896	10.196			
2/9/2022	8:30:00 AM	CA97288	Pawtuxet River @ Broad St.	CA97286	RIVER	0.5	0.12	1.87	7.08	556	6.36	550	54.8	9.21	2170	813	846	6.4000			
2/9/2022	1:15:00 PM	CA97289	Woonasquatucket River @ Valley St.	CA97286	RIVER	0.5	0.17	3.11	7.39	457	3.39	454	31.7	<5.0	2690	704	673	9.2000			
2/9/2022	12:45:00 PM	CA97290	Woonasquatucket River @ Manton Ave. Bridge	CA97286	RIVER	0.5	0.17	3.3	7.35	429	4.95	424	33.8	<5.0	2620	662	649	9.1089			
2/9/2022	12:45:00 PM	CA97291	Woonasquatucket River @ Manton Ave. Bridge (Duplicate	CA97286	RIVER	0.5	0.17	3.3	7.35	419	3.02	416	36.3	<5.0	2960	656	650	10.097			
2/9/2022	10:15:00 AM	CA97292	Moshassuck River @ Footbridge at Mill St.	CA97286	RIVER	0.5	0.24	1.47	7.22	450	4.65	445	59	13.4	3160	703	714	4.8			
2/9/2022	9:45:00 AM	CA97293	Moshassuck River @ Higginson Ave	CA97286	RIVER	0.5	0.24	1.71	7.32	420	4.26	416	36.3	11.7	2440	661	690	2.9126			
2/9/2022	1:45:00 PM	CA97294	Ten Mile River @ Roger Williams Ave	CA97286	RIVER	0.5	0.26	2.04	7.2	1010	11	999	99.3	14.1	2350	1380	1490	5.2			
2/9/2022	2:00:00 PM	CA97295	Phillipsdale Landing Surface	CA97286	BAY	0.5	0.79	2.7	7.92	714	15.5	698	156	81.2	2970	1170	1160	4.6	1.37	1.0852	
2/9/2022	2:10:00 PM	CA97296	Phillipsdale Landing Bottom	CA97286	BAY	2.65	27.22	3.04	8.04	125	2.59	122	38.1	10	597	575	309	58.8000			
2/23/2022	9:30:00 AM	CA98288	Nutrient Blank	CA98288	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/23/2022	8:45:00 AM	CA98289	Blackstone River @ Slater Mill	CA98288	RIVER	0.5	0.16	4.75	7.57	522	8.33	514	31.5	7.47	2940	756	645	7.451			
2/23/2022	10:00:00 AM	CA98290	Blackstone River @ Stateline	CA98288	RIVER	0.5	0.14	4.64	7.1	396	10.9	385	34.4	5.49	2630	593	510	4.7059			
2/23/2022	9:15:00 AM	CA98291	Blackstone River @ Bikepath Bridge	CA98288	RIVER	0.5	0.16	4.7	7.23	491	15.6	475	57.1	5.16	2880	709	622	4.2718			
2/23/2022	9:15:00 AM	CA98292	Blackstone River @ Bikepath Bridge (Duplicate)	CA98288	RIVER	0.5	0.16	4.7	7.23	495	15.7	479	55.1	<5.0	2870	709	626	4.1176			
2/23/2022	2:35:00 PM	CA98293	Pawtuxet River @ Broad St.	CA98288	RIVER	0.5	0.11	6.52	7.02	542	6.27	536	55.4	6.83	2370	782	694	5.9184			
2/23/2022	1:00:00 PM	CA98294	Woonasquatucket River @ Valley St.	CA98288	RIVER	0.5	0.15	7.01	7.24	508	3.07	505	12	<5.0	2650	672	585	6.0000			
2/23/2022	12:45:00 PM	CA98295	Woonasquatucket River @ Manton Ave. Bridge	CA98288	RIVER	0.5	0.14	6.86	7.13	468	3.1	465	16.9	<5.0	2650	645	587	5.2			
2/23/2022	1:30:00 PM	CA98296	Moshassuck River @ Footbridge at Mill St.	CA98288	RIVER	0.5	0.22	7.01	7.21	525	4.45	521	10.5	10	3100	678	642	4.6154			
2/23/2022	9:05:00 AM	CA98298	Nutrient Blank	CA98298	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/23/2022	12:55:00 PM	CA98299	Warren Reservoir/Kickemuit Rive	CA98298	RIVER	0.5	0.11	8.12	6.88	405	6.47	399	102	10.2	1620	836	807	4.6154			
2/23/2022	2:00:00 PM	CA98300	Coles River @ Milford Rd.	CA98298	RIVER	0.5	0.09	3.63	6.48	191	2.6	188	<7.000	6.59	1250	486	473	2.7451			
2/23/2022	2:00:00 PM	CA98301	Coles River @ Milford Rd. (Duplicate)	CA98298	RIVER	0.5	0.09	3.63	6.48	189	2.53	186	<7.000	6.48	1170	470	394	2.7723			
2/23/2022	1:15:00 PM	CA98302	Palmer River @ Rt. 6	CA98298	RIVER	0.5	0.14	5.42	6.81	309	3.67	305	28.1	11.3	1540	688	587	6.9811			
2/23/2022	1:30:00 PM	CA98303	Runnins River @ River Rd.	CA98298	RIVER	0.5	0.21	7.04	6.83	563	8.27	555	23.9	6.68	2860	813	792	<2.0000			
2/23/2022	9:00:00 AM	CA98304	Taunton River @ Berkley Bridge	CA98298	RIVER	0.5	0.14	4.33	6.71	358	13.3	345	133	10.5	2200	726	693	4.3809			
2/23/2022	9:40:00 AM	CA98305	Ten Mile River @ Roger Williams Ave	CA98298	RIVER	0.5	0.21	4.57	7.02	1150	8.95	1140	50.7	13.2	2540	1290	1280	2.9412			
2/23/2022	10:20:00 AM	CA98306	Ten Mile River @ Central Ave	CA98298	RIVER	0.5	0.24	6.9	6.89	971	8.17	963	60.5	9.72	2500	1260	1220	4.1509			
2/23/2022	9:50:00 AM	CA98307	Phillipsdale Landing Surface	CA98298	BAY	0.5	0.6	5.05	7.05	604	11.8	592	67.3	49	2840	874	799	3.2692			
3/9/2022	12:30:00 PM	CA98275	Nutrient Blank	CA98275	BAY					8.02	<1.5	8.02	<7.000	<5.0	<20.000	<200.000	<100.000				All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taker
3/9/2022	9:15:00 AM	CA98276	Conimicut Point Surface	CA98275	BAY					287	5.09	282	19.5	<5.0	1060	600	454	2.3529	4.8213	0.74472	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	10:50:00 AM	CA98277	Edgewood Yacht Club Surface	CA98275	BAY					267	6.84	260	171	36.8	1190	850	600	5.5769	6.2604	1.052	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	9:50:00 AM	CA98278	Pomham Rocks Surface	CA98275	BAY					315	4.61	310	67.2	25.1	1150	766	518	5.4717	4.0269	1.0605	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	10:00:00 AM	CA98279	India Point Park Surface	CA98275	BAY					549	13	536	168	34.7	2550	988	890	2.593	1.1721	0.73959	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	9:30:00 AM	CA98280	Bullock Reach Buoy Surface	CA98275	BAY					285	5.15	280	39.7	5.57	1070	664	498	6.4151	9.8859	1.3858	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	9:30:00 AM	CA98281	Bullock Reach Buoy Surface (Duplicate)	CA98275	BAY					283	5.12	278	43	5.98	1090	657	460	7.4545	9.9798	0.86007	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	9:40:00 AM	CA98282	Pawtuxet Cove Surface	CA98275	BAY					728	9.48	719	114	<5.0	2470	1120	953	2.4074	3.1029	1.1837	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	10:55:00 AM	CA98283	Edgewood Shoal Surface	CA98275	BAY					355	7.67	347	187	39.9	1550	867	752	8.4906	3.8946	1.293	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	11:00:00 AM	CA98284	Edgewood Shoal Bottom	CA98275	BAY					39.7	<1.5	39.7	17.4	<5.0	155	667	209	8.2353			All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taker

Table 36: River and Bay Nutrients Data

River and Bay Nutrients Data
2022

									NUTRIENT PARAMETERS											
Collection Date	**Collection Time**	**Sample ID**	**Station**	**Associated Blank**	**Waterbody**	**Depth (meters)**	**Salinity (ppt)**	**Temp (°C)**	**pH**	**NO_3+NO_2 (ppb N)**	**NO_2 (ppb N)**	**NO_3 (ppb N)**	**NH_3 (ppb N)**	**Ortho-Phosphate (ppb P)**	**Silicate (ppb Si)**	**Total Nitrogen (ppb N)**	**Total Dissolved Nitrogen (ppb N)**	**TSS (ppm)**	**Chl *a* (µg/L)**	**Phaeophytin *a* (µg/L)**	**Comments**
3/9/2022	10:20:00 AM	CA99337	Phillipsdale Landing Surface	CA98275	BAY					587	14.3	573	203	67	2620	1100	979	37.059	2.4822	1.4146	All water collected at each station but filtered in the lab. Weather deteriorated rapidly in the AM due to the approach of snow storm. No dataflow run due to frozen lines, therefore no fieldparameters were taken.
3/9/2022	10:30:00 AM	CA99338	Nutrient Blank	CA99338	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
3/9/2022	8:45:00 AM	CA99339	Blackstone River @ Slater Mill	CA99338	RIVER	0.5	0.18	6.3	7.55	349	6.26	343	226	17.1	2640	1140	935	3.1372			
3/9/2022	2:30:00 PM	CA99340	Pawtuxet River @ Broad St.	CA99338	RIVER	0.5	0.14	6	7.28	790	10.4	780	83.3	<5.0	2580	1090	1100	2.5			
3/9/2022	1:00:00 PM	CA99341	Woonasquatucket River @ Valley St.	CA99338	RIVER	0.5	0.16	5.5	6.96	577	7.46	570	21.3	<5.0	2520	751	772	2.5			
3/9/2022	1:00:00 PM	CA99342	Woonasquatucket River @ Valley St. (Duplicate)	CA99338	RIVER	0.5	0.16	5.5	6.96	577	7.67	569	22.4	<5.0	2660	768	754	2.7451			
3/9/2022	12:40:00 PM	CA99343	Woonasquatucket River @ Manton Ave. Bridge	CA99338	RIVER	0.5	0.15	5.6	7.33	513	7.03	506	28	<5.0	2400	717	745	2.1569			
3/9/2022	1:30:00 PM	CA99344	Moshassuck River @ Footbridge at Mill St.	CA99338	RIVER	0.5	0.28	6	6.9	585	4.32	581	<7.000	7.61	2990	760	780	2.4528			
3/9/2022	9:25:00 AM	CA99345	Moshassuck River @ Higginson Ave	CA99338	RIVER	0.5	0.25	5.9	7.31	479	3.5	475	<7.000	<5.0	2890	646	643	2.7451			
3/9/2022	10:15:00 AM	CA99346	Ten Mile River @ Roger Williams Ave	CA99338	RIVER	0.5	0.26	7	7.39	1360	7.05	1350	9.24	10	2850	1600	1700	12.2			
3/22/2022	1:55:00 PM	CB00268	Nutrient Blank	CB00268	RIVER					<6.000	<1.5	<6.0	<7.000	12.6	<20.000	<200.000	<100.000				
3/22/2022	12:55:00 PM	CB00269	Blackstone River @ Slater Mill	CB00268	RIVER	0.5	0.23	10.23	7.63	667	21.2	646	300	5.79	2620	1300	1230	<2.0000			
3/22/2022	9:05:00 AM	CB00270	Blackstone River @ Stateline	CB00268	RIVER	0.5	0.22	9.11	7.43	575	16.4	559	12.5	6.56	2570	808	800	<2.0000			
3/22/2022	9:45:00 AM	CB00271	Blackstone River @ Bikepath Bridge	CB00268	RIVER	0.5	0.24	9.85	7.44	503	5.83	497	<7.000	13.1	2450	729	720	<2.0000			
3/22/2022	8:15:00 AM	CB00272	Pawtuxet River @ Broad St.	CB00268	RIVER	0.5	0.16	8.62	7.35	966	11.1	955	74.2	<5.0	2720	1290	1290	<2.0000			
3/22/2022	1:45:00 PM	CB00273	Woonasquatucket River @ Valley St.	CB00268	RIVER	0.5	0.17	9.19	7.68	662	3.58	658	<7.000	<5.0	2560	900	839	<2.0000			
3/22/2022	1:25:00 PM	CB00274	Moshassuck River @ Footbridge at Mill St.	CB00268	RIVER	0.5	0.26	9.57	7.62	612	16	596	388	<5.0	2650	1270	1240	<2.0000			
3/22/2022	10:05:00 AM	CB00275	Moshassuck River @ Higginson Ave.	CB00268	RIVER	0.5	0.25	8.5	7.41	340	3.94	336	<7.000	<5.0	2280	558	543	<2.0000			
3/22/2022	10:05:00 AM	CB00276	Moshassuck River @ Higginson Ave. (Duplicate	CB00268	RIVER	0.5	0.25	8.5	7.41	337	3.74	333	<7.000	<5.0	2250	580	530	<2.0000			
3/22/2022	9:00:00 AM	CB00277	Nutrient Blank	CB00277	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
3/22/2022	9:40:00 AM	CB00278	Warren Reservoir/Kickemuit Rive	CB00277	RIVER	0.5	0.14	7.78	6.94	335	7.18	328	37.7	8.83	1320	941	843	5.7692			
3/22/2022	9:20:00 AM	CB00279	Coles River @ Milford Rd.	CB00277	RIVER	0.5	0.08	10.22	6.9	167	4.29	163	<7.000	13.7	919	680	633	2.7778			
3/22/2022	10:20:00 AM	CB00280	Palmer River @ Rt. 6	CB00277	RIVER	0.5	0.32	9.37	6.95	249	5.03	244	19.8	9.59	1840	719	670	4.1176			
3/22/2022	10:20:00 AM	CB00281	Palmer River @ Rt. 6 (Duplicate)	CB00277	RIVER	0.5	0.32	9.37	6.95	250	4.47	246	19.3	10.3	1740	711	669	3.8182			
3/22/2022	12:45:00 PM	CB00282	Runnins River @ River Rd.	CB00277	RIVER	0.5	0.27	8.41	7.08	553	4.33	549	<7.000	7.96	2530	869	921	<2.0000			
3/22/2022	8:45:00 AM	CB00283	Taunton River @ Berkley Bridge	CB00277	RIVER	0.5	0.15	10.39	6.85	425	15.6	409	142	19.9	1650	931	970	3.1372			
3/22/2022	1:00:00 PM	CB00284	Ten Mile River @ Roger Williams Ave	CB00277	RIVER	0.5	0.26	11.17	7.5	1250	8.54	1240	<7.000	12.5	2070	1610	1630	2.5			
3/22/2022	2:15:00 PM	CB00285	Ten Mile River @ Central Ave	CB00277	RIVER	0.5	0.29	10.88	7.89	1860	9.23	1850	28.5	12.5	2600	2230	2200	<2.0000			
3/22/2022	1:30:00 PM	CB00254	Phillipsdale Landing Surface	CB00277	BAY	0.5	8.59	9.17	7.5	997	13.4	984	161	180	1970	1640	1450	5.098	3.4755	2.0483	
3/22/2022	1:40:00 PM	CB00255	Phillipsdale Landing Bottom	CB00277	BAY	1.82	25.24	6.83	8.05	133	2.89	130	47.1	<5.0	443	566	385	8.0769			
4/6/2022	12:30:00 PM	CB00240	Nutrient Blank	CB00240	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				samples filtered in lab due to strong rain and wind
4/6/2022	9:20:00 AM	CB00241	Conimicut Point Surface	CB00240	BAY	0.5	25.43	8.8	8.39	11.8	<1.5	11.8	<7.000	<5.0	139	411	186	8.8	5.2413	2.6381	samples filtered in lab due to strong rain and wind
4/6/2022	9:25:00 AM	CB00242	Conimicut Point Bottom	CB00240	BAY					13.9	<1.5	13.9	<7.000	<5.0	125	384	110	7.8			samples filtered in lab due to strong rain and wind
4/6/2022	10:25:00 AM	CB00243	Edgewood Yacht Club Surface	CB00240	BAY	0.5	20.19	8.99	8.26	160	7.57	152	113	25.9	689	707	474	5.8182	3.6324	0.94503	samples filtered in lab due to strong rain and wind
4/6/2022	10:25:00 AM	CB00244	Edgewood Yacht Club Surface (Duplicate)	CB00240	BAY	0.5	20.19	8.99	8.26	195	7.56	187	109	25.8	487	704	520	6.2963	5.3535	1.6015	samples filtered in lab due to strong rain and wind
4/6/2022	10:30:00 AM	CB00245	Edgewood Yacht Club Bottom	CB00240	BAY					150	5.9	144	79.9	17.4	556	667	403	7.7778			samples filtered in lab due to strong rain and wind
4/6/2022	9:05:00 AM	CB00246	Pomham Rocks Surface	CB00240	BAY	0.5	21.59	8.81	8.26	179	5.52	173	53.3	15.2	620	614	400	7.037	2.5071	0.71784	samples filtered in lab due to strong rain and wind
4/6/2022	9:10:00 AM	CB00247	Pomham Rocks Bottom	CB00240	BAY					72	2.98	69	18.7	<5.0	357	486	238	6.6667			samples filtered in lab due to strong rain and wind
4/6/2022	8:50:00 AM	CB00248	India Point Park Surface	CB00240	BAY	0.5	11.43	9.61	8.09	367	8.73	358	86.5	22.3	1080	811	652	5.1852	1.6757	1.1689	samples filtered in lab due to strong rain and wind
4/6/2022	8:55:00 AM	CB00249	India Point Park Bottom	CB00240	BAY					191	5.81	185	65.6	15.8	728	681	394	6.2963			samples filtered in lab due to strong rain and wind
4/6/2022	9:30:00 AM	CB00250	Bullock Reach Buoy Surface	CB00240	BAY	0.5	22.05	8.74	8.32	142	4.59	137	62.5	17.3	535	558	351	8.8889	4.983	0.70362	samples filtered in lab due to strong rain and wind
4/6/2022	9:35:00 AM	CB00251	Bullock Reach Buoy Bottom	CB00240	BAY					32	<1.5	32	<7.000	<5.0	208	438	170	6.1818			samples filtered in lab due to strong rain and wind
4/6/2022	10:10:00 AM	CB00252	Pawtuxet Cove Surface	CB00240	BAY	0.5	3.27	9.93	7.69	581	4.24	577	38	<5.0	1900	974	860	<2.0000	0.97875	0.7383	samples filtered in lab due to strong rain and wind
4/6/2022	10:15:00 AM	CB00253	Pawtuxet Cove Bottom	CB00240	BAY					401	6.06	395	79.9	17.3	1380	810	646	4.5454			samples filtered in lab due to strong rain and wind
4/6/2022	10:55:00 AM	CB01349	Phillipsdale Landing Surface	CB00240	BAY	0.514	5.63	10.49	7.75	132	4.76	127	70	12.1	582	690	428	10.4	1.74	1.671	samples filtered in lab due to strong rain and wind. Phillipsdale Landing samples sampled with Sonde swap crew instead of boat crew.
4/6/2022	10:50:00 AM	CB01350	Phillipsdale Landing Bottom	CB00240	BAY					145	4.73	140	66.1	13.7	633	584	386	12			samples filtered in lab due to strong rain and wind. Phillipsdale Landing samples sampled with Sonde swap crew instead of boat crew.
4/6/2022	9:45:00 AM	CB01454	Nutrient Blank	CB01454	RIVER					9.06	<1.5	9.06	<7.000	<5.0	25.4	<200.000	<100.000				
4/6/2022	9:35:00 AM	CB01455	Blackstone River @ Slater Mill	CB01454	RIVER	0.5	0.21	10.5	7.08	580	20.4	560	162	5.75	2220	979	990	3.2			
4/6/2022	9:00:00 AM	CB01456	Pawtuxet River @ Broad St.	CB01454	RIVER	0.5	0.265	10.1	6.87	749	3.32	746	27.3	<5.0	2220	957	1070	2.2044			
4/6/2022	2:05:00 PM	CB01457	Woonasquatucket River @ Valley St.	CB01454	RIVER	0.5	0.18	9.67	7.23	557	4.01	553	27.8	<5.0	1990	791	878	5.5888			
4/6/2022	1:25:00 PM	CB01458	Woonasquatucket River @ Manton Ave. Bridge	CB01454	RIVER	0.5	0.16	9.72	7.13	457	2.79	454	27.1	<5.0	1890	692	741	2.963			
4/6/2022	2:25:00 PM	CB01459	Moshassuck River @ Footbridge at Mill St.	CB01454	RIVER	0.5	0.21	10	7.18	375	7.96	367	58.1	15.9	1450	793	695	13.347			
4/6/2022	10:25:00 AM	CB01460	Moshassuck River @ Higginson Ave	CB01454	RIVER	0.5	0.518	10.3	7.37	260	3.79	256	<7.000	5.18	2230	491	477	3.0000			
4/6/2022	12:50:00 PM	CB01461	Ten Mile River @ Roger Williams Ave	CB01454	RIVER	0.5	0.25	0.91	7.41	1070	7.03	1060	<7.000	23.7	1740	1370	1320	5.4			
4/6/2022	12:50:00 PM	CB01462	Ten Mile River @ Roger Williams Ave. (Duplicate	CB01454	RIVER	0.5	0.25	0.91	7.41	1040	6.99	1030	<7.000	21.6	1730	1350	1320	4.8			
4/20/2022	1:20:00 PM	CB02659	Nutrient Blank	CB02659	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
4/20/2022	8:30:00 AM	CB02660	Blackstone River @ Slater Mill	CB02659	RIVER	0.5	0.15	11.4	7.46	397	7.25	390	24.7	6.32	1920	746	643	14.34			
4/20/2022	10:00:00 AM	CB02661	Blackstone River @ Stateline	CB02659	RIVER	0.5	0.14	10.6	7.43	321	4.4	317	<7.000	6.47	1710	632	533	8.3929			
4/20/2022	9:05:00 AM	CB02662	Blackstone River @ Bikepath Bridge	CB02659	RIVER	0.5	0.15	10.9	7.51	394	7.83	386	31.4	6.59	1890	740	615	12.407			
4/20/2022	2:20:00 PM	CB02663	Pawtuxet River @ Broad St.	CB02659	RIVER	0.5	0.07	11.45	7.27	554	6.05	548	50.6	<5.0	1780	878	745	3.7736			
4/20/2022	1:00:00 PM	CB02664	Woonasquatucket River @ Valley St.	CB02659	RIVER	0.5	0.13	11.85	7.45	334	5.23	329	9.65	<5.0	1740	592	630	5.1923			
4/20/2022	12:45:00 PM	CB02665	Woonasquatucket River @ Manton Ave. Bridge	CB02659	RIVER	0.5	0.13	11.75	7.34	294	4.83	289	12.2	<5.0	1600	555	555	5.7692			
4/20/2022	1:25:00 PM	CB02666	Moshassuck River @ Footbridge at Mill St.	CB02659	RIVER	0.5	0.18	11.98	7.57	273	3.11	270	12.6	8.76	2120	524	533	5.8823			
4/20/2022	1:25:00 PM	CB02667	Moshassuck River @ Footbridge at Mill St. (Duplicate)	CB02659	RIVER	0.5	0.18	11.98	7.57	271	2.83	268	8.31	9.36	2080	539	452	4.8			
4/20/2022	9:40:00 AM	CB02669	Nutrient Blank	CB02669	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
4/20/2022	10:15:00 AM	CB02670	Warren Reservoir/Kickemuit Rive	CB02669	RIVER	0.5	0.09	10.06	7.15	116	4.94	111	17.3	10	770	772	675	3.9623			
4/20/2022	10:15:00 AM	CB02671	Warren Reservoir/Kickemuit River (Duplicate	CB02669	RIVER	0.5	0.09	10.06	7.15	116	5.03	111	15.7	11	815	756	634	5			
4/20/2022	9:30:00 AM	CB02672	Coles River @ Milford Rd.	CB02669	RIVER	0.5	0.08	11.85	7.28	115	3.91	111	<7.000	18.5	358	656	527	3.6			
4/20/2022	10:30:00 AM	CB02673	Palmer River @ Rt. 6	CB02669	RIVER	0.5	0.14	10.46	7.02	165	3.98	161	17	14.3	1310	731	601	10.784			
4/20/2022	12:45:00 PM	CB02674	Runnins River @ River Rd.	CB02669	RIVER	0.5	0.16	10.7	6.98	254	2.2	252	<7.000	6.72	1930	649	599	<2.0000			
4/20/2022	9:00:00 AM	CB02675	Taunton River @ Berkley Bridge	CB02669	RIVER	0.5	0.14	11.06	7.57	294	7.82	286	34	12.7	1210	794	602	34.51			
4/20/2022	1:00:00 PM	CB02676	Ten Mile River @ Roger Williams Ave	CB02669	RIVER	0.5	0.24	13.63	7.44	929	6.02	923	<7.000	8.54	730	1320	1090	7.0588			
4/20/2022	2:40:00 PM	CB02677	Ten Mile River @ Central Ave	CB02669	RIVER	0.5	0.22	12.9	7.52	518	5.1	513	44.4	7.39	1580	918	1080	2.3529			
4/20/2022	2:00:00 PM	CB02424	Phillipsdale Landing Surface	CB02669	BAY	0.5	0.66	12.74	7.52	552	9.22	543	54.2	73.6	1950	972	917	8.2353	3.8934	5.103	
5/4/2022	12:30:00 PM	CB02416	Nutrient Blank	CB02416	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	9:30:00 AM	CB02417	Conimicut Point Surface	CB02416	BAY	0.5	25.99	11.52	8.02	42.5	1.83	40.7	<7.000	13.6	387	487	211	5.7143	8.8935	1.2598	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	10:20:00 AM	CB02418	Edgewood Yacht Club Surface	CB02416	BAY	0.5	20.25	11.77	7.92	181	3.99	177	16.1	33.7	735	539	346	5.4717	3.2727	1.6618	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	9:15:00 AM	CB02419	Pomham Rocks Surface	CB02416	BAY	0.5	20.25	11.78	7.89	183	3.78	179	17.3	33.2	730	570	367	6.2264	3.1689	1.5278	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	9:00:00 AM	CB02420	India Point Park Surface	CB02416	BAY	0.5	16.07	12.11	7.82	227	4.49	223	22.9	27	868	609	418	8.8235	3.4398	1.6345	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	9:00:00 AM	CB02421	India Point Park Surface (Duplicate)	CB02416	BAY	0.5	16.07	12.11	7.82	224	3.96	220	22.4	29	836	671	405	7.3077	4.3374	2.3516	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	9:40:00 AM	CB02422	Bullock Reach Buoy Surface	CB02416	BAY	0.5	23.91	11.67	8.07	81.4	2.88	78.5	<7.000	19.6	498	423	224	7.7358	7.3782	0.80883	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	10:15:00 AM	CB02423	Pawtuxet Cove Surface	CB02416	BAY	0.5	5.98	12.34	7.37	722	5.13	717	36.6	9.4	1950	1080	1000	3.2075	3.201	1.8809	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	10:30:00 AM	CB02425	Edgewood Shoal Surface	CB02416	BAY	0.5	19.87	11.75	7.96	209	4.05	205	7.57	29.7	795	558	387	5.1923	4.3731	1.7383	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	10:35:00 AM	CB02426	Edgewood Shoal Bottom	CB02416	BAY					180	4.03	176	7.83	32.7	749	566	395	6.4286	3.8814	1.7557	Filtered in the lab due to foggy conditions, thunder showers, and wind; Inclement Weather
5/4/2022	2:15:00 PM	CB03617	Phillipsdale Landing Surface	CB02416	BAY	0.5	6.8	13.07	7.64	429	7.06	422	22.4	41.2	1430	919	630	5.2083	12.025	5.718	Sampled from Land
5/4/2022	1:30:00 PM	CB03621	Nutrient Blank	CB03621	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
5/4/2022	10:20:00 AM	CB03622	Blackstone River @ Slater Mill	CB03621	RIVER	0.55	0.19	13.1	7.48	492	6.44	486	32	7.81	1890	790	759	4.5161			
5/4/2022	8:40:00 AM	CB03623	Pawtuxet River @ Broad St.	CB03621	RIVER	0.5	0.16	12.45	7.04	965	5.44	960	35.2	<5.0	2280	1260	1230	<2.0000			
5/4/2022	8:40:00 AM	CB03624	Pawtuxet River @ Broad St. (Duplicate)	CB03621	RIVER	0.5	0.16	12.45	7.04	957	5.4	952	34.4	<5.0	2440	1250	1230	<2.0000			
5/4/2022	1:20:00 PM	CB03625	Woonasquatucket River @ Valley St.	CB03621	RIVER	0.28	0.15	12.93	7.4	454	3.8	450	17.9	<5.0	1630	709	656	4.5161			
5/4/2022	12:45:00 PM	CB03626	Woonasquatucket River @ Manton Ave. Bridge	CB03621	RIVER	0.54	0.15	12.7	7.3	411	2.64	408	12.7	<5.0	1630	652	594	3.4409			
5/4/2022	1:40:00 PM	CB03627	Moshassuck River @ Footbridge at Mill St.	CB03621	RIVER	0.43	0.16	12.78	7.3	341	8.02	333	82.1	18.8	1680	992	741	22.6090			
5/4/2022	9:48:00 AM	CB03628	Moshassuck River @ Higginson Ave	CB03621	RIVER	0.4	0.21	12.43	7.39	214	3.68	210	14.8	<5.0	1950	464	561	2.0225			
5/4/2022	10:55:00 AM	CB03629	Ten Mile River @ Roger Williams Ave	CB03621	RIVER	0.53	0.25	13.6	7.49	717	7.39	710	37.1	9.53	1190	1140	1040	4.6667			
5/18/2022	7:55:00 AM	CB04501	Nutrient blank	CB04501	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
5/18/2022	8:50:00 AM	CB04502	Conimicut Point Surface	CB04501	BAY	0.5	28.34	15.87	7.98	<6.000	<1.5	<6.0	<7.000	13.7	51.4	337	145	9.5652	5.4375	1.6612	
5/18/2022	8:55:00 AM	CB04503	Conimicut Point Bottom	CB04501	BAY					<6.000	<1.5	<6.0	<7.000	13.3	61.5	333	139	12.045			
5/18/2022	1:40:00 PM	CB04504	Edgewood Yacht Club Surface	CB04501	BAY	0.5	28.94	16.33	7.95	<6.000	<1.5	<6.0	<7.000	18.8	77.8	413	159	10.612	4.965	1.7075	
5/18/2022	1:45:00 PM	CB04505	Edgewood Yacht Club Bottom	CB04501	BAY					<6.000	<1.5	<6.0	<7.000	18.5	93.2	406	123	11.042			
5/18/2022	8:00:00 AM	CB04506	Pomham Rocks Surface	CB04501	BAY	0.5	25.55	15.66	7.88	69.9	1.78	68.1	12.6	21.6	263	417	214	8.125	5.2569	1.918	
5/18/2022	8:05:00 AM	CB04507	Pomham Rocks Bottom	CB04501	BAY					14.6	<1.5	14.6	<7.000	19.9	111	398	148	12.165			
5/18/2022	1:10:00 PM	CB04508	India Point Park Surface	CB04501	BAY	0.5	23.12	16.41	7.83	132	3.99	128	33.3	35.7	507	508	396	20	4.5645	2.8879	
5/18/2022	1:15:00 PM	CB04509	India Point Park Bottom	CB04501	BAY					70.1	1.83	68.3	27.1	25.1	316	467	228	28.6			
5/18/2022	9:15:00 AM	CB04510	Bullock Reach Buoy Surface	CB04501	BAY	0.5	28.79	15.78	7.99	<6.000	<1.5	<6.0	<7.000	12.7	34.4	336	190	18.75	5.0739	1.354	
5/18/2022	9:20:00 AM	CB04511	Bullock Reach Buoy Bottom	CB04501	BAY					<6.000	<1.5	<6.0	<7.000	14.9	58.5	321	116	8			
5/18/2022	8:20:00 AM	CB04512	Pawtuxet Cove Surface	CB04501	BAY	0.5	9.5	17.69	7.42	708	11.6	696	92	11	1530	1130	1010	4.086	1.8061	1.5757	
5/18/2022	8:20:00 AM	CB04513	Pawtuxet Cove Surface (Duplicate)	CB04501	BAY	0.5	9.5	17.69	7.42	709	12	697	92.8	12.2	1580	1090	1020	2.9787	1.7078	1.5711	
5/18/2022	8:25:00 AM	CB04514	Pawtuxet Cove Bottom	CB04501	BAY					236	4.1	232	32.2	21.9	595	581	422	6.7416			
5/18/2022	1:15:00 PM	CB04515	Phillipsdale Landing Surface	CB04501	BAY	0.5	14.4	18.73	7.57	76.7	2.84	73.9	38.1	41.1	378	491	376	9.0722	3.1362	2.6564	

Table 36: River and Bay Nutrients Data

River and Bay Nutrients Data
2022

									NUTRIENT PARAMETERS												
Collection Date	**Collection Time**	**Sample ID**	**Station**	**Associated Blank**	**Waterbody**	**Depth (meters)**	**Salinity (ppt)**	**Temp (°C)**	**pH**	**NO_3+NO_2 (ppb N)**	**NO_2 (ppb N)**	**NO_3 (ppb N)**	**NH_3 (ppb N)**	**Ortho-Phosphate (ppb P)**	**Silicate (ppb Si)**	**Total Nitrogen (ppb N)**	**Total Dissolved Nitrogen (ppb N)**	**TSS (ppm)**	**Chl *a* (µg/L)**	**Phaeo-phytin *a* (µg/L)**	**Comments**
5/18/2022	1:25:00 PM	CB04516	Phillipsdale Landing Bottom	CB04501	BAY	2.3	27.85	15.51	7.76	93.7	4.22	89.5	46.9	62.3	470	695	373	28.660			
5/18/2022	1:10:00 PM	CB04520	Nutrient blank	CB04520	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
5/18/2022	8:26:00 AM	CB04521	Blackstone River @ Slater Mill	CB04520	RIVER	0.503	0.24	19.943	7.4	502	13.7	488	59.5	11.2	1810	850	825	3.75			
5/18/2022	8:26:00 AM	CB04522	Blackstone River @ Slater Mill (Duplicate)	CB04520	RIVER	0.503	0.24	19.943	7.4	503	13.5	489	59.1	12.5	1790	855	848	3.1579			
5/18/2022	9:47:00 AM	CB04523	Blackstone River @ Stateline	CB04520	RIVER	0.516	0.26	19.123	7.37	572	29.9	542	109	12.1	2150	1020	982	3.800			
5/18/2022	9:05:00 AM	CB04524	Blackstone River @ Bikepath Bridge	CB04520	RIVER	0.508	0.26	20.705	7.54	572	18.7	553	57.8	14.8	1900	929	899	3.6735			
5/18/2022	7:35:00 AM	CB04525	Pawtuxet River @ Broad St.	CB04520	RIVER	0.464	0.18	18.826	6.91	1030	17	1010	113	<5.0	2100	1410	1490	2.041			
5/18/2022	2:15:00 PM	CB04526	Woonasquatucket River @ Valley St.	CB04520	RIVER	0.462	0.27	18.831	7.39	620	4.76	615	30.9	<5.0	1920	861	865	2.449			
5/18/2022	1:40:00 PM	CB04527	Moshassuck River @ Footbridge at Mill St.	CB04520	RIVER	0.451	0.2	19.146	7.54	468	12.9	455	72.2	10.9	2940	734	728	3.0612			
5/18/2022	1:00:00 PM	CB04528	Moshassuck River @ Higginson Ave	CB04520	RIVER	0.501	0.25	19.124	7.23	171	7.58	163	83.3	6.44	2370	522	496	3.2990			
5/18/2022	8:30:00 AM	CB04530	Nutrient Blank	CB04530	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
5/18/2022	9:15:00 AM	CB04531	Warren Reservoir/Kickemuit Rive	CB04530	RIVER	0.5	0.18	17.8	7.27	27.4	4.69	22.7	21.4	20.1	2870	949	724	6.6667			
5/18/2022	8:45:00 AM	CB04532	Coles River @ Milford Rd.	CB04530	RIVER	0.5	0.1	18.93	7.08	104	5.3	98.7	37.4	19.4	343	749	673	16.2			
5/18/2022	9:45:00 AM	CB04533	Palmer River @ Rt. 6	CB04530	RIVER	0.5	10.98	18.67	7.09	105	5.69	99.3	15.1	6.54	1320	932	567	<2.0000			
5/18/2022	10:00:00 AM	CB04534	Runnins River @ River Rd.	CB04530	RIVER	0.5	0.39	15.9	7.27	448	8.18	440	17.2	<5.0	2280	786	812	<2.0000			
5/18/2022	8:15:00 AM	CB04535	Taunton River @ Berkley Bridge	CB04530	RIVER	0.5	0.29	18.48	7.3	535	17	518	156	17.8	1830	1160	1070	12.449			
5/18/2022	12:45:00 PM	CB04536	Ten Mile River @ Roger Williams Ave	CB04530	RIVER	0.5	0.3	20.38	7.65	746	13.2	733	50.6	17.1	602	1220	1140	4.6939			
5/18/2022	2:30:00 PM	CB04537	Ten Mile River @ Central Ave	CB04530	RIVER	0.5	0.35	19.82	7.51	1330	19.1	1310	60.7	16.5	2960	1710	1720	4.6			
5/18/2022	2:30:00 PM	CB04538	Ten Mile River @ Central Ave. (Duplicate	CB04530	RIVER	0.5	0.35	19.82	7.51	1270	18.9	1250	42.4	16	2910	1700	1730	2.449			
6/1/2022	8:30:00 AM	CB05613	Nutrient Blank	CB05613	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Pollen on surface of water
6/1/2022	8:45:00 AM	CB05614	Conimicut Point Surface	CB05613	BAY	0.5	24.68	20.41	8.1	<6.000	<1.5	<6.0	<7.000	7.8	91.7	483	185	34.231	6.6153	3.2673	Pollen on surface of water
6/1/2022	2:00:00 PM	CB05615	Edgewood Yacht Club Surface	CB05613	BAY	0.5	23.15	20.32	8.16	<6.000	<1.5	<6.0	<7.000	33.6	318	518	210	35.918	12.364	4.8183	Pollen on surface of water
6/1/2022	2:00:00 PM	CB05616	Edgewood Yacht Club Surface (Duplicate	CB05613	BAY	0.5	23.15	20.32	8.16	<6.000	<1.5	<6.0	<7.000	32.8	311	501	212	36.289	10.733	5.5098	Pollen on surface of water
6/1/2022	9:45:00 AM	CB05617	Pomham Rocks Surface	CB05613	BAY	0.5	24.35	19.612	8	<6.000	<1.5	<6.0	<7.000	36.4	203	543	224	32.075	12.129	5.5551	Pollen on surface of water
6/1/2022	1:40:00 PM	CB05618	India Point Park Surface	CB05613	BAY	0.5	19.98	19.31	7.97	23.2	3.8	19.4	<7.000	14.6	634	604	236	32.577	26.516	4.6005	Pollen on surface of water
6/1/2022	9:05:00 AM	CB05619	Bullock Reach Buoy Surface	CB05613	BAY	0.5	24.67	20.25	8.04	10.8	<1.5	10.8	<7.000	8.72	139	462	182	28.247	6.4467	2.9582	Pollen on surface of water
6/1/2022	2:30:00 PM	CB05620	Pawtuxet Cove Surface	CB05613	BAY	0.5	10.5	21.15	8	314	22.4	292	<7.000	16	835	800	564	29.053	11.95	5.0733	Pollen on surface of water
6/1/2022	1:05:00 PM	CB05621	Phillipsdale Landing Surface	CB05613	BAY	0.5	10.71	21.34	8.04	332	13.2	319	21.6	64.4	1530	994	776	17.347	20.804	6.8334	Pollen on surface of water
6/1/2022	10:05:00 AM	CB05622	Edgewood Shoal Surface	CB05613	BAY	0.5	23.67	19.74	8.03	<6.000	<1.5	<6.0	<7.000	46.3	223	539	277	38.3330	15.285	6.1149	Pollen on surface of water
6/1/2022	10:10:00 AM	CB05623	Edgewood Shoal Bottom	CB05613	BAY					<6.000	<1.5	<6.0	19.9	67.2	530	380	162	32.449			Pollen on surface of water
6/1/2022	12:45:00 PM	CB05627	Nutrient Blank	CB05627	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
6/1/2022	8:45:00 AM	CB05628	Blackstone River @ Slater Mill	CB05627	RIVER	0.5	0.31	22.02	7.53	703	17.1	686	59.7	17.5	2340	1090	1030	3.6782			
6/1/2022	7:54:00 AM	CB05629	Pawtuxet River @ Broad St.	CB05627	RIVER	0.5	0.23	21.14	7.15	1120	74.1	1050	40.5	5.2	2530	1530	1410	<2.0000			
6/1/2022	10:10:00 AM	CB05630	Woonasquatucket River @ Valley St.	CB05627	RIVER	0.5	0.24	19.82	7.49	810	7.15	803	37.8	<5.0	2390	1020	1020	8			
6/1/2022	9:35:00 AM	CB05631	Woonasquatucket River @ Manton Ave. Bridge	CB05627	RIVER	0.5	0.21	21.24	7.17	596	7.61	588	97.4	<5.0	2010	929	880	2.3529			
6/1/2022	9:35:00 AM	CB05632	Woonasquatucket River @ Manton Ave. Bridge (Duplicate	CB05627	RIVER	0.5	0.21	21.24	7.17	595	7.6	587	93	<5.0	2140	919	911	2.6667			
6/1/2022	12:35:00 PM	CB05633	Moshassuck River @ Footbridge at Mill St.	CB05627	RIVER	0.5	0.31	17.23	7.41	661	25.2	636	133	10.1	4290	930	951	<2.0000			
6/1/2022	1:20:00 PM	CB05634	Moshassuck River @ Higginson Ave	CB05627	RIVER	0.5	0.27	20.25	7.17	280	15.1	265	106	8.55	3670	706	616	4.6512			
6/1/2022	2:00:00 PM	CB05635	Ten Mile River @ Roger Williams Ave	CB05627	RIVER	0.5	0.33	22.13	7.36	495	17.4	478	98.9	26.7	638	1040	948	4.8276			
6/15/2022	1:45:00 PM	CB06597	Nutrient Blank	CB06597	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
6/15/2022	8:45:00 AM	CB06598	Conimicut Point Surface	CB06597	BAY	0.5	26.47	21.1	7.89	<6.000	<1.5	<6.0	<7.000	27.1	703	455	236	11.215	5.3265	3.2077	
6/15/2022	8:50:00 AM	CB06599	Conimicut Point Bottom	CB06597	BAY					<6.000	<1.5	<6.0	<7.000	19.9	429	508	145	91.887			
6/15/2022	1:25:00 PM	CB06600	Edgewood Yacht Club Surface	CB06597	BAY	0.5	26.49	21.99	7.94	<6.000	<1.5	<6.0	<7.000	38.6	760	478	200	9.6364	9.815	4.1767	
6/15/2022	1:30:00 PM	CB06601	Edgewood Yacht Club Bottom	CB06597	BAY					<6.000	<1.5	<6.0	37.2	46	937	452	183	21.5			
6/15/2022	8:00:00 AM	CB06602	Pomham Rocks Surface	CB06597	BAY	0.5	26.38	20.3	7.63	35.9	1.97	33.9	<7.000	47.9	848	486	230	31.2960	4.9997	2.1363	
6/15/2022	8:05:00 AM	CB06603	Pomham Rocks Bottom	CB06597	BAY					18.4	<1.5	18.4	<7.000	52.2	836	515	263	39.231			
6/15/2022	1:00:00 PM	CB06604	India Point Park Surface	CB06597	BAY	0.5	24.55	20.7	7.5	61.6	4.47	57.1	36.2	45.8	1070	485	291	10.577	5.6182	5.2742	
6/15/2022	1:00:00 PM	CB06605	India Point Park Surface (Duplicate)	CB06597	BAY	0.5	24.55	20.7	7.5	61.3	4.35	56.9	36.7	46	1060	519	336	9.2308	5.6545	3.0342	
6/15/2022	1:05:00 PM	CB06606	India Point Park Bottom	CB06597	BAY					50.7	3.09	47.6	53.7	42.9	980	491	289	10.377			
6/15/2022	9:15:00 AM	CB06607	Bullock Reach Buoy Surface	CB06597	BAY	0.5	27.74	21.1	7.89	<6.000	<1.5	<6.0	<7.000	26.6	649	385	223	41.4	3.8965	2.4183	
6/15/2022	9:20:00 AM	CB06608	Bullock Reach Buoy Bottom	CB06597	BAY					<6.000	<1.5	<6.0	<7.000	25.4	983	398	139	49.038			
6/15/2022	8:25:00 AM	CB06609	Pawtuxet Cove Surface	CB06597	BAY	0.5	8.83	21.6	7.34	570	22.4	548	37.8	17.7	2150	974	859	17.451	1.3897	0.95665	
6/15/2022	8:30:00 AM	CB06610	Pawtuxet Cove Bottom	CB06597	BAY					47.9	2.33	45.6	16.7	48.1	952	507	337	42.075			
6/15/2022	1:00:00 PM	CB06614	Nutrient Blank	CB06614	RIVER					9.36	<1.5	9.36	<7.000	<5.0	<20.000	<200.000	<100.000				
6/15/2022	8:23:00 AM	CB06615	Blackstone River @ Slater Mill	CB06614	RIVER	0.5	0.24	22.89	7.53	519	8.13	511	34.8	16.6	2210	841	915	4.3137			
6/15/2022	9:55:00 AM	CB06616	Blackstone River @ Stateline	CB06614	RIVER	0.5	0.26	22.06	7.49	552	14.7	537	26.5	17.6	2230	880	856	5.098			
6/15/2022	9:00:00 AM	CB06617	Blackstone River @ Bikepath Bridge	CB06614	RIVER	0.5	0.25	22.63	7.57	554	10.3	544	27.4	15.4	2170	848	922	4.4			
6/15/2022	9:00:00 AM	CB06618	Blackstone River @ Bikepath Bridge (Duplicate)	CB06614	RIVER	0.5	0.25	22.63	7.57	554	10.4	544	29.4	19.5	2160	851	873	3.6			
6/15/2022	7:40:00 AM	CB06619	Pawtuxet River @ Broad St.	CB06614	RIVER	0.5	5.54	21.67	7.15	786	28.1	758	43.3	6.46	2630	1190	1140	7.5728			
6/15/2022	2:00:00 PM	CB06620	Woonasquatucket River @ Valley St.	CB06614	RIVER	0.5	0.22	21.7	7.68	765	7.41	758	<7.000	<5.0	2200	984	1010	<2.0000			
6/15/2022	1:40:00 PM	CB06621	Woonasquatucket River @ Manton Ave. Bridge	CB06614	RIVER	0.5	0.19	23.27	7.53	513	8.23	505	102	5.48	1860	866	863	<2.0000			
6/15/2022	11:00:00 AM	CB06622	Moshassuck River @ Footbridge at Mill St.	CB06614	RIVER	0.5	0.25	18.65	7.28	528	13.3	515	64.5	12.7	4180	757	814	<2.0000			
6/15/2022	12:40:00 PM	CB06623	Phillipsdale Landing Surface	CB06614	BAY	0.5	19.09	22.11	7.5	53.8	4.28	49.5	48.5	74.5	1200	596	317	12	5.2277	4.6295	
6/15/2022	12:45:00 PM	CB06624	Phillipsdale Landing Bottom	CB06614	BAY	2.45	26.56	20.12	7.4	40.6	4.27	36.3	78.7	55.8	979	530	322	15.8			
6/15/2022	8:15:00 AM	CB06626	Nutrient Blank	CB06626	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
6/15/2022	9:30:00 AM	CB06627	Warren Reservoir/Kickemuit Rive	CB06626	RIVER	0.5	0.12	22.29	6.77	97	11	86	202	46.2	3110	1230	991	7.5556			
6/15/2022	9:00:00 AM	CB06628	Coles River @ Milford Rd.	CB06626	RIVER	0.5	0.09	22.37	6.99	107	8.03	99	41.4	21.6	2430	888	749	4.0777			
6/15/2022	10:00:00 AM	CB06629	Palmer River @ Rt. 6	CB06626	RIVER	0.5	17.47	22.36	7.17	35	3.12	31.9	<7.000	8.14	1490	774	398	42.941			
6/15/2022	1:00:00 PM	CB06630	Runnins River @ River Rd.	CB06626	RIVER	0.5	0.21	19.87	7.15	272	4.59	267	9.25	8.45	3690	685	731	<2.0000			
6/15/2022	1:00:00 PM	CB06631	Runnins River @ River Rd. (Duplicate)	CB06626	RIVER	0.5	0.21	19.87	7.15	272	4.34	268	12.6	9.04	3790	701	748	<2.0000			
6/15/2022	8:00:00 AM	CB06632	Taunton River @ Berkley Bridge	CB06626	RIVER	0.5	0.28	22.71	7.15	473	7.8	465	<7.000	51.5	2800	1090	941	14.808			
6/15/2022	1:30:00 PM	CB06633	Ten Mile River @ Roger Williams Ave	CB06626	RIVER	0.5	0.29	23.75	7.54	265	8.67	256	53.8	24.5	1250	714	713	<2.0000			
6/15/2022	2:00:00 PM	CB06634	Ten Mile River @ Central Ave	CB06626	RIVER	0.5	0.35	22.83	7.58	848	8.57	839	30.3	22.8	3510	1260	1300	<2.0000			
6/29/2022	8:50:00 AM	CB07631	Nutrient Blank	CB07631	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
6/29/2022	8:40:00 AM	CB07632	Conimicut Point Surface	CB07631	BAY	0.5	26.28	22.42	7.79	11.5	<1.5	11.5	<7.000	54.2	880	497	218	32.135	8.6739	2.2748	
6/29/2022	2:25:00 PM	CB07633	Edgewood Yacht Club Surface	CB07631	BAY	0.5	23.76	24	7.78	61	3.66	57.3	30.1	83.4	1160	621	294	11.613	7.0539	2.1413	
6/29/2022	9:55:00 AM	CB07634	Pomham Rocks Surface	CB07631	BAY	0.5	23.71	23.39	7.8	50.8	3.3	47.5	28.3	90.4	1050	696	288	12.045	14.941	3.4734	
6/29/2022	1:40:00 PM	CB07635	India Point Park Surface	CB07631	BAY	0.5	18.53	23.88	7.87	72.4	5.67	66.7	43.8	71.5	1280	609	339	11.579	11.382	4.0716	
6/29/2022	9:00:00 AM	CB07636	Bullock Reach Buoy Surface	CB07631	BAY	0.5	24.67	22.75	7.96	10.2	<1.5	10.2	7.43	49.5	915	527	203	12.421	8.2461	2.4932	
6/29/2022	2:10:00 PM	CB07637	Pawtuxet Cove Surface	CB07631	BAY	0.5	23.78	24.32	7.82	333	5.73	327	52.7	58.8	1620	826	626	6.5979	4.971	2.0573	
6/29/2022	1:20:00 PM	CB07638	Phillipsdale Landing Surface	CB07631	BAY	0.5	8.06	25.36	8.37	16.4	<1.5	16.4	<7.000	61.4	1530	818	244	11.6330	13.228	4.4799	
6/29/2022	10:05:00 AM	CB07639	Edgewood Shoal Surface	CB07631	BAY	0.5	22.56	23.4	7.68	67.2	4.29	62.9	69.4	119	1130	679	360	9.7826	4.7979	2.0045	
6/29/2022	10:05:00 AM	CB07640	Edgewood Shoal Surface (Duplicate	CB07631	BAY	0.5	22.56	23.4	7.68	72.6	4.17	68.4	70	120	1150	697	364	9.0526	2.2463	1.0691	
6/29/2022	10:10:00 AM	CB07641	Edgewood Shoal Bottom	CB07631	BAY					7.56	2.14	<6.0	170	102	1310	611	371	16.2			
6/29/2022	8:00:00 AM	CB07645	Nutrient blank	CB07645	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
6/29/2022	9:00:00 AM	CB07646	Blackstone River @ Slater Mill	CB07645	RIVER	0.5	0.28	23.02	7.64	707	6.7	700	25.6	13.1	1760	1040	1100	3.4483			
6/29/2022	7:45:00 AM	CB07647	Pawtuxet River @ Broad St.	CB07645	RIVER	0.5	5.35	22.37	6.95	715	7.49	708	35.1	16.4	2240	1090	1040	2.7083			
6/29/2022	1:30:00 PM	CB07648	Woonasquatucket River @ Valley St.	CB07645	RIVER	0.5	0.19	22.86	7.4	648	6.08	642	19.1	5.63	1880	863	1020	<2.0000			
6/29/2022	1:30:00 PM	CB07649	Woonasquatucket River @ Valley St. (Duplicate	CB07645	RIVER	0.5	0.19	22.86	7.4	647	6.17	641	20.4	5.63	1850	879	926	<2.0000			
6/29/2022	1:00:00 PM	CB07650	Woonasquatucket River @ Manton Ave. Bridge	CB07645	RIVER	0.5	0.17	23.31	7.41	495	6.9	488	52.7	6.49	1630	817	848	<2.0000			
6/29/2022	2:00:00 PM	CB07651	Moshassuck River @ Footbridge at Mill St.	CB07645	RIVER	0.5	0.25	20.56	7.29	523	12.3	511	35.3	17.9	4100	762	823	2.0225			
6/29/2022	9:30:00 AM	CB07652	Moshassuck River @ Higginson Ave	CB07645	RIVER	0.5	0.25	21.97	7.2	179	7.65	171	75.5	16.2	3630	577	671	<2.0000			
6/29/2022	10:00:00 AM	CB07653	Ten Mile River @ Roger Williams Ave	CB07645	RIVER	0.5	0.29	23.54	7.29	96.5	2.97	93.5	27	15.8	1290	535	482	5.0575			
7/13/2022	1:25:00 PM	CB08663	Nutrient Blank	CB08663	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
7/13/2022	8:10:00 AM	CB08664	Blackstone River @ Slater Mill	CB08663	RIVER	0.5	0.29	23.92	7.44	527	6.05	521	41.6	9.98	1060	921	880	4.468			
7/13/2022	8:55:00 AM	CB08665	Blackstone River @ Stateline	CB08663	RIVER	0.5	0.28	24.37	7.48	635	5.85	629	<7.000	19.8	1490	915	939	2.7957			
7/13/2022	9:40:00 AM	CB08666	Blackstone River @ Bikepath Bridge	CB08663	RIVER	0.5	0.29	25.09	7.57	573	6.77	566	12	7.53	1090	860	871	2.6667			
7/13/2022	7:35:00 AM	CB08667	Pawtuxet River @ Broad St.	CB08663	RIVER	0.5	27.85	24.01	7.54	44.5	1.92	42.6	67	81.2	960	560	350	12.999			
7/13/2022	12:45:00 PM	CB08668	Woonasquatucket River @ Valley St.	CB08663	RIVER	0.5	0.23	24.61	7.6	729	6.41	723	<7.000	<5.0	2020	922	991	<2.0000			
7/13/2022	1:15:00 PM	CB08669	Moshassuck River @ Footbridge at Mill St.	CB08663	RIVER	0.5	0.24	22.54	7.28	530	17.4	513	34.6	7.9	3870	848	969	2.4719			
7/13/2022	10:13:00 AM	CB08670	Moshassuck River @ Higginson Ave	CB08663	RIVER	0.5	0.25	21.56	7.08	277	5.68	271	36.7	12.1	3830	557	560	2.7586			
7/13/2022	10:13:00 AM	CB08671	Moshassuck River @ Higginson Ave. (Duplicate	CB08663	RIVER	0.5	0.25	21.56	7.08	275	5.66	269	50.4	11.6	3860	549	554	2.7586			
7/13/2022	10:30:00 AM	CB08672	Phillipsdale Landing Surface	CB08663	BAY	0.5	23.19	24.53	7.37	23.8	3.08	20.7	68.4	127	1330	715	390	9.6842	5.6691	3.9531	
7/13/2022	10:35:00 AM	CB08673	Phillipsdale Landing Bottom	CB08663	BAY					19.3	3.02	16.3	88.1	117	1250	602	318	11.489			
7/13/2022	8:45:00 AM	CB08675	Nutrient Blank	CB08675	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
7/13/2022	9:30:00 AM	CB08677	Coles River @ Milford Rd.	CB08675	RIVER	0.5	0.11	20.69	6.75	1280	9.3	1270	41	10.3	3210	1530	1580	5.2525			
7/13/2022	10:15:00 AM	CB08678	Palmer River @ Rt. 6	CB08675	RIVER	0.5	25.45	25.47	7.24	13	<1.5	13	32.2	31.4	1220	808	452	15.67			
7/13/2022	12:45:00 PM	CB08679	Runnins River @ River Rd.	CB08675	RIVER	0.5	1.15	22.79	7.17	406	6.95	399	32	<5.0	5150	696	766	3.0612			
7/13/2022	9:00:00 AM	CB08680	Taunton River @ Berkley Bridge	CB08675	RIVER	0.5	14.79	24.88	7.34	18.5	2.65	15.8	<7.000	5.39	477	778	322	22.653			
7/13/2022	9:00:00 AM	CB08681	Taunton River @ Berkley Bridge (Duplicate	CB08675	RIVER	0.5	14.79	24.88	7.34	26.8	3.22	23.6	<7.000	6.58	474	823	324	28.571			
7/13/2022	1:15:00 PM	CB08682	Ten Mile River @ Roger Williams Ave	CB08675	RIVER	0.5	0.3	25.19	7.64	214	4.98	209	42.5	40.3	1600	587	587	<2.0000			
7/13/2022	2:00:00 PM	CB08683	Ten Mile River @ Central Ave	CB08675	RIVER	0.5	0.38	24.82	7.63	846	4.48	842	11.8	28.3	3050	1170	1280	<2.0000			
7/14/2022	1:00:00 PM	CB08684	Nutrient Blank	CB08684	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
7/14/2022	9:15:00 AM	CB08685	Conimicut Point Surface	CB08684	BAY	0.5	28.26	24.71	7.86	<6.000	<1.5	<6.0	<7.000	52.7	651	376	174	10.947	9.2991	1.3783	

Table 36: River and Bay Nutrients Data

River and Bay Nutrients Data
2022

								NUTRIENT PARAMETERS											
Collection Date	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NO_3+NO_2 (ppb N)	NO_2 (ppb N)	NO_3 (ppb N)	NH_3 (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)	TSS (ppm)	Chl *a* (µg/L)	Phaeo-phytin *a* (µg/L)	Comments
7/14/2022	9:20:00 AM	CB08686	Conimicut Point Bottom	CB08684	BAY					<6.000	<1.5	<6.0	34.6	36.6	908	447	204	19.794			
7/14/2022	8:20:00 AM	CB08687	Edgewood Yacht Club Surface	CB08684	BAY	0.5	25.64	24.17	7.66	10	<1.5	10	<7.000	86	1030	456	208	9.5833	9.8562	2.4021	
7/14/2022	8:25:00 AM	CB08688	Edgewood Yacht Club Bottom	CB08684	BAY					13	<1.5	13	20.1	67.4	946	502	205	20.412			
7/14/2022	8:05:00 AM	CB08689	Pomham Rocks Surface	CB08684	BAY	0.5	26.17	24.3	7.65	<6.000	<1.5	<6.0	<7.000	58.9	652	403	198	11.042	9.552	2.9791	
7/14/2022	8:10:00 AM	CB08690	Pomham Rocks Bottom	CB08684	BAY					6.61	<1.5	6.61	<7.000	63.9	876	657	200	19.792			
7/14/2022	7:45:00 AM	CB08691	India Point Park Surface	CB08684	BAY	0.5	24.45	24.93	7.53	35.2	3.24	32	51.8	96.7	1290	518	311	10.707	3.3252	1.7904	
7/14/2022	7:50:00 AM	CB08692	India Point Park Bottom	CB08684	BAY					<6.000	<1.5	<6.0	73.6	73.5	1010	497	254	24.694			
7/14/2022	9:25:00 AM	CB08693	Bullock Reach Buoy Surface	CB08684	BAY	0.5	27.37	25.33	7.92	<6.000	<1.5	<6.0	<7.000	82.6	959	444	207	10.8	11.972	3.5835	
7/14/2022	9:30:00 AM	CB08694	Bullock Reach Buoy Bottom	CB08684	BAY					<6.000	<1.5	<6.0	19.8	43.3	875	415	210	26.17			
7/14/2022	10:15:00 AM	CB08695	Pawtuxet Cove Surface	CB08684	BAY	0.5	16.15	25.22	7.98	732	4.72	727	18.5	21.5	1880	1120	1010	7.7895	2.5403	1.2854	
7/14/2022	10:15:00 AM	CB08696	Pawtuxet Cove Surface (Duplicate)	CB08684	BAY	0.5	16.15	25.22	7.98	737	4.8	732	17	21	1880	1130	1020	5.2525	2.5644	1.3979	
7/14/2022	10:20:00 AM	CB08697	Pawtuxet Cove Bottom	CB08684	BAY					22.3	<1.5	22.3	34.6	81.1	1030	561	272	19.362			
7/27/2022	12:20:00 PM	CB09749	Nutrient blank	CB09749	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
7/27/2022	9:40:00 AM	CB09750	Conimicut Point Surface	CB09749	BAY	0.5	28.24	25.85	7.88	<6.000	<1.5	<6.0	<7.000	81.7	998	582	219	10.784	13.651	5.5095	
7/27/2022	10:35:00 AM	CB09751	Edgewood Yacht Club Surface	CB09749	BAY	0.5	27.22	25.96	7.77	<6.000	<1.5	<6.0	9.17	100	1110	691	290	8.3168	17.063	4.365	
7/27/2022	9:10:00 AM	CB09752	Pomham Rocks Surface	CB09749	BAY	0.5	27.35	25.75	7.63	7.34	1.64	<6.0	11.6	109	1180	612	229	10.947	12.46	4.3047	
7/27/2022	8:55:00 AM	CB09753	India Point Park Surface	CB09749	BAY	0.5	26.45	25.79	7.51	20.4	2.9	17.5	48	117	1260	587	268	12.34	8.2434	4.0176	
7/27/2022	9:50:00 AM	CB09754	Bullock Reach Buoy Surface	CB09749	BAY	0.5	27.15	25.77	7.9	11	<1.5	11	14.6	87.2	1130	786	318	11.042	17.008	5.5227	
7/27/2022	9:25:00 AM	CB09755	Pawtuxet Cove Surface	CB09749	BAY	0.5	19.98	26.22	8.09	414	1.77	412	21.3	39.7	1940	1030	671	6.5979	12.687	4.0737	
7/27/2022	8:30:00 AM	CB09756	Phillipsdale Landing Surface	CB09749	BAY	0.5	18.35	26.35	7.83	<6.000	1.74	<6.0	24.8	160	1430	1050	292	9.1667	44.177	21.593	
7/27/2022	8:30:00 AM	CB09757	Phillipsdale Landing Surface (Duplicate)	CB09749	BAY	0.5	18.35	26.35	7.83	<6.000	1.85	<6.0	23.6	164	1370	1020	347	12.128	51.07	14.267	
7/27/2022	10:40:00 AM	CB09758	Edgewood Shoal Surface	CB09749	BAY	0.5	27.94	26.14	7.73	<6.000	<1.5	<6.0	10.6	99	1180	696	241	10.753	12.712	5.3289	
7/27/2022	10:45:00 AM	CB09759	Edgewood Shoal Bottom	CB09749	BAY					<6.000	<1.5	<6.0	77.6	111	1350	623	233	17.255			
7/27/2022	10:30:00 AM	CB09776	Nutrient blank	CB09776	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
7/27/2022	8:15:00 AM	CB09777	Blackstone River @ Slater Mill	CB09776	RIVER	0.494	0.33	25.06	7.46	758	7.62	750	52.4	12.2	2060	1250	1240	<2.0000			
7/27/2022	2:00:00 PM	CB09778	Pawtuxet River @ Broad St.	CB09776	RIVER	0.422	0.23	25.82	7.27	528	4.12	524	54.1	64.7	2240	1480	1090	5.7778			
7/27/2022	1:00:00 PM	CB09779	Woonasquatucket River @ Valley St.	CB09776	RIVER	0.375	0.27	23.17	7.47	773	3.45	770	14.6	5.46	2650	1000	1090	<2.0000			
7/27/2022	12:30:00 PM	CB09780	Woonasquatucket River @ Manton Ave. Bridge	CB09776	RIVER	0.375	0.21	25.07	7.08	512	8.88	503	11.3	<5.0	1910	766	823	<2.0000			
7/27/2022	1:30:00 PM	CB09781	Moshassuck River @ Footbridge at Mill St.	CB09776	RIVER	0.275	0.21	21.61	7.43	554	9.17	545	40.3	6.78	4450	845	770	<2.0000			
7/27/2022	8:35:00 AM	CB09782	Moshassuck River @ Higginson Ave	CB09776	RIVER	0.104	0.25	21.08	6.97	239	9.5	229	98.9	12.5	4480	716	625	2.6966			
7/27/2022	7:45:00 AM	CB09783	Ten Mile River @ Roger Williams Ave	CB09776	RIVER	0.433	0.33	24.76	7.25	211	5.48	206	38.9	37.4	1450	793	632	<2.0000			
7/27/2022	7:45:00 AM	CB09784	Ten Mile River @ Roger Williams Ave. (Duplicate	CB09776	RIVER	0.433	0.33	24.76	7.25	248	5.39	243	41	35.9	1550	689	649	<2.0000			
8/9/2022	1:00:00 PM	CB10793	Nutrient Blank	CB10793	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:25:00 AM	CB10794	Conimicut Point Surface	CB10793	BAY	0.5	31.16	27.07	7.73	<6.000	<1.5	<6.0	12	59	1150	563	224	11.25	6.309	3.2313	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:25:00 AM	CB10795	Conimicut Point Surface (Duplicate)	CB10793	BAY	0.5	31.16	27.07	7.73	<6.000	<1.5	<6.0	13.7	58.8	1200	508	248	10	5.3124	3.0231	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:30:00 AM	CB10796	Conimicut Point Bottom	CB10793	BAY					<6.000	<1.5	<6.0	48.1	61.6	1210	535	234	13.263			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	9:40:00 AM	CB10797	Edgewood Yacht Club Surface	CB10793	BAY	0.5	27.98	27.98	7.8	<6.000	<1.5	<6.0	7.46	142	1450	780	249	40.215	26.522	6.2115	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	9:45:00 AM	CB10798	Edgewood Yacht Club Bottom	CB10793	BAY					<6.000	<1.5	<6.0	58.7	133	1660	689	278	41.935			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:10:00 AM	CB10799	Pomham Rocks Surface	CB10793	BAY	0.5	28.32	27.83	7.75	23	<1.5	23	43.3	151	1610	771	318	31.064	19.441	6.8664	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:15:00 AM	CB10800	Pomham Rocks Bottom	CB10793	BAY					<6.000	<1.5	<6.0	131	116	1440	606	382	10.515			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	7:55:00 AM	CB10801	India Point Park Surface	CB10793	BAY	0.5	27.47	27.98	7.47	13.2	2.52	10.7	81.7	154	1430	704	363	33.474	13.5690	6.5676	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:00:00 AM	CB10802	India Point Park Bottom	CB10793	BAY					11.6	2.07	9.53	130	158	1420	736	378	9.0526			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:45:00 AM	CB10803	Bullock Reach Buoy Surface	CB10793	BAY	0.5	29.9	27.5	7.63	7.43	<1.5	7.43	49.4	86.6	1480	655	265	10.816	12.071	4.6092	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	8:50:00 AM	CB10804	Bullock Reach Buoy Bottom	CB10793	BAY					22.5	<1.5	22.5	43.1	72.3	1330	630	238	12.21			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	9:25:00 AM	CB10805	Pawtuxet Cove Surface	CB10793	BAY	0.5	10.98	27.88	7.39	631	2.27	629	45.8	49.5	2210	1410	937	17.172	3.6375	2.6448	Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/9/2022	9:30:00 AM	CB10806	Pawtuxet Cove Bottom	CB10793	BAY					17.9	1.53	16.4	132	143	1870	756	358	34.583			Due to concerning high temps above 90°F, all samples were filtered back in the lal
8/10/2022	9:30:00 AM	CB10810	Nutrient blank	CB10810	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
8/10/2022	8:30:00 AM	CB10811	Blackstone River @ Slater Mill	CB10810	RIVER	0.5	0.33	27.71	7.44	595	7.81	587	39.4	17.7	966	1200	950	<2.0000			
8/10/2022	10:35:00 AM	CB10812	Blackstone River @ Stateline	CB10810	RIVER	0.5	0.37	26.73	7.7	1010	8.07	1000	22.1	36.3	1420	1460	1390	2.6804			Low flows; field parameters read from handheld deployed mid-bridge as usual, however suction line for sample deployed from shore. Distance between measurement and sampling location >10 f
8/10/2022	9:15:00 AM	CB10813	Blackstone River @ Bikepath Bridge	CB10810	RIVER	0.5	0.37	27.8	7.72	719	7.12	712	35.6	21.6	1110	1090	1070	<2.0000			
8/10/2022	7:35:00 AM	CB10814	Pawtuxet River @ Broad St.	CB10810	RIVER	0.5	25.5	27.65	7.53	846	2.93	843	19	7.52	2530	1200	1160	<2.0000			
8/10/2022	12:55:00 PM	CB10815	Woonasquatucket River @ Valley St.	CB10810	RIVER	0.5	0.27	24.88	7.5	756	7.4	749	8.46	<5.0	2800	949	978	<2.0000			
8/10/2022	12:35:00 PM	CB10816	Woonasquatucket River @ Manton Ave. Bridge	CB10810	RIVER	0.5	0.24	24.49	7.22	472	8.48	464	37.5	<5.0	1890	780	732	<2.0000			
8/10/2022	1:25:00 PM	CB10817	Moshassuck River @ Footbridge at Mill St.	CB10810	RIVER	0.5	0.23	23.57	7.34	374	8.54	365	22.6	17.6	3540	648	609	2.8571			
8/10/2022	1:25:00 PM	CB10818	Moshassuck River @ Footbridge at Mill St. (Duplicate)	CB10810	RIVER	0.5	0.23	23.57	7.34	374	8.62	365	24.8	18.4	3620	655	596	2.5263			
8/10/2022	1:55:00 PM	CB10819	Phillipsdale Landing Surface	CB10810	BAY	0.5	22.93	27.95	7.5	12.4	3.21	9.19	71	240	1570	1070	382	35.1580	36.359	9.2088	
8/10/2022	2:00:00 PM	CB10820	Phillipsdale Landing Bottom	CB10810	BAY	1.23	22.13	27.95	7.52	9.99	3.54	6.45	17.4	184	1630	984	304	12.979			
8/10/2022	1:40:00 PM	CB10822	Nutrient blank	CB10822	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
8/10/2022	8:40:00 AM	CB10824	Coles River @ Milford Rd.	CB10822	RIVER	0.5	0.17	22.43	6.83	159	6.66	152	74	23.3	1220	1060	789	5.1111			
8/10/2022	8:40:00 AM	CB10825	Coles River @ Milford Rd. (Duplicate)	CB10822	RIVER	0.5	0.17	22.43	6.83	159	7.12	152	75.5	23.7	1160	946	763	2.6			
8/10/2022	9:20:00 AM	CB10826	Palmer River @ Rt. 6	CB10822	RIVER	0.5	27.64	27.3	7.18	11.5	<1.5	11.5	117	67.4	600	1420	564	44.444			
8/10/2022	10:00:00 AM	CB10827	Runnins River @ River Rd.	CB10822	RIVER	0.5	25.81	12.01	6.72	226	5.89	220	65.9	<5.0	5640	922	587	11.2			
8/10/2022	8:10:00 AM	CB10828	Taunton River @ Berkley Bridge	CB10822	RIVER	0.5	15.32	27.75	7.15	173	7.8	165	100	71.6	984	1110	655	25.4			
8/10/2022	1:00:00 PM	CB10829	Ten Mile River @ Roger Williams Ave	CB10822	RIVER	0.5	0.37	23.23	7.4	307	7.54	299	59.5	83.8	1670	857	698	<2.0000			
8/10/2022	1:30:00 PM	CB10830	Ten Mile River @ Central Ave	CB10822	RIVER	0.5	0.43	24.71	7.47	1120	12.6	1110	38.7	43.1	1700	1770	1570	<2.0000			
8/24/2022	8:40:00 AM	CB11840	Nutrient Blank	CB11840	BAY					6.99	<1.5	6.99	<7.000	<5.0	<20.000	<200.000	<100.000				
8/24/2022	8:05:00 AM	CB11827	Conimicut Point Surface	CB11840	BAY	0.5	30.38	24.522	7.8	7.09	<1.5	7.09	7.18	39.6	1130	757	188	12.371	21.714	5.6508	
8/24/2022	10:10:00 AM	CB11828	Edgewood Yacht Club Surface	CB11840	BAY	0.5	27.26	24.818	7.72	41.3	3.77	37.5	38.9	66	1140	874	278	11.2	19.549	4.1601	
8/24/2022	9:15:00 AM	CB11829	Pomham Rocks Surface	CB11840	BAY	0.5	25.02	24.345	7.45	75.7	4.7	71	120	75.5	1300	777	403	11.25	2.0104	10.027	
8/24/2022	1:40:00 PM	CB11831	India Point Park Surface	CB11840	BAY	0.5	25.72	24.841	7.25	107	9.69	97.3	258	97.6	1440	986	583	10.909	11.218	4.1583	
8/24/2022	8:30:00 AM	CB11832	Bullock Reach Buoy Surface	CB11840	BAY	0.5	23.83	24.092	7.59	63.2	3.49	59.7	70.6	62.4	1140	875	368	12	15.171	4.8165	
8/24/2022	2:05:00 PM	CB11833	Pawtuxet Cove Surface	CB11840	BAY	0.5	16.98	25.014	7.51	361	5.16	356	75.7	58.8	1760	1210	664	22.449	24.971	4.5726	
8/24/2022	1:10:00 PM	CB11834	Phillipsdale Landing Surface	CB11840	BAY	0.5	9.75	25.327	7.05	382	19.3	363	229	361	1500	1570	1040	15	19.241	3.0057	
8/24/2022	9:35:00 AM	CB11835	Edgewood Shoal Surface	CB11840	BAY	0.50	28.15	24.88	7.66	27.1	2.95	24.1	62.6	98.2	1230	758	287	33.263	17.854	4.5483	
8/24/2022	9:40:00 AM	CB11836	Edgewood Shoal Bottom	CB11840	BAY					17.6	3.12	14.5	190	111	1440	734	388	30.526			
8/24/2022	1:00:00 PM	CB11849	Nutrient Blank	CB11849	RIVER					17.9	<1.5	17.9	<7.000	<5.0	<20.000	<200.000	<100.000				
8/24/2022	8:00:00 AM	CB11841	Blackstone River @ Slater Mill	CB11849	RIVER	0.41	0.34	23.13	7.39	752	7.33	745	58.1	15.2	1040	1170	1120	5.1546			
8/24/2022	2:10:00 PM	CB11842	Pawtuxet River @ Broad St.	CB11849	RIVER	0.52	0.24	23.63	7.29	811	5.71	805	37.4	5.88	2410	1150	1080	<2.0000			
8/24/2022	2:10:00 PM	CB11843	Pawtuxet River @ Broad St. (Duplicate)	CB11849	RIVER	0.52	0.24	23.63	7.29	803	5.52	797	31.4	7.17	2370	1130	1100	<2.0000			
8/24/2022	10:00:00 AM	CB11844	Woonasquatucket River @ Valley St.	CB11849	RIVER	0.42	0.17	21.88	7.35	649	7.9	641	90	15.4	1600	918	996	<2.0000			
8/24/2022	9:30:00 AM	CB11845	Woonasquatucket River @ Manton Ave. Bridge	CB11849	RIVER	0.28	0.18	22.18	7.04	612	10.7	601	98.8	17.3	1310	948	928	<2.0000			
8/24/2022	1:40:00 PM	CB11846	Moshassuck River @ Footbridge at Mill St.	CB11849	RIVER	0.23	0.25	21.53	7.36	418	9.98	408	106	11.4	3490	993	741	3.6364			
8/24/2022	8:20:00 AM	CB11847	Moshassuck River @ Higginson Ave	CB11849	RIVER	0.39	0.29	18.25	7	728	40.3	688	151	<5.0	5410	1080	1100	2.9703			
8/24/2022	1:10:00 PM	CB11848	Ten Mile River @ Roger Williams Ave	CB11849	RIVER	0.57	0.42	24.13	7.53	88.6	3.26	85.3	17.7	26	1150	660	421	7.4			
9/7/2022	2:30:00 PM	CB12754	Nutrient Blank	CB12754	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:55:00 AM	CB12738	Conimicut Point Surface	CB12754	BAY	0.5	21.13	22.43	7.23	167	6.65	160	217	106	1420	964	662	22.979	2.7667	1.9393	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	9:00:00 AM	CB12739	Conimicut Point Bottom	CB12754	BAY					24.9	3.59	21.3	130	69.4	1390	676	346	34.316			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	9:55:00 AM	CB12740	Edgewood Yacht Club Surface	CB12754	BAY	0.5	27.42	23.51	7.22	62.2	6.2	56	256	124	1590	882	559	7.7895	1.0947	1.8635	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	10:00:00 AM	CB12741	Edgewood Yacht Club Bottom	CB12754	BAY					27.3	4.03	23.3	233	117	1680	826	474	9.1667			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:25:00 AM	CB12742	Pomham Rocks Surface	CB12754	BAY	0.5	21.51	22.58	7.12	87.7	5.14	82.6	205	105	1430	792	528	28.866	1.41	1.6549	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:30:00 AM	CB12743	Pomham Rocks Bottom	CB12754	BAY					21.1	3.55	17.5	160	86	1410	707	391	28.125			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:00:00 AM	CB12744	India Point Park Surface	CB12754	BAY	0.5	19.38	22.87	7.13	153	8.07	145	247	112	1370	1040	651	28.542	2.2929	2.43	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:10:00 AM	CB12745	India Point Park Bottom	CB12754	BAY					32.8	8.31	24.5	207	106	1530	853	466	29.697			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	9:10:00 AM	CB12746	Bullock Reach Buoy Surface	CB12754	BAY	0.5	20.27	22.15	7.23	194	7.28	187	227	106	1460	1210	691	24.124	2.4832	1.6045	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	9:10:00 AM	CB12747	Bullock Reach Buoy Surface (Duplicate)	CB12754	BAY	0.5	20.27	22.15	7.23	196	7.22	189	224	106	1420	1230	692	21.649	2.9605	1.6088	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	9:15:00 AM	CB12748	Bullock Reach Buoy Bottom	CB12754	BAY					15.8	3.52	12.3	115	63.7	1350	894	297	36.667			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:40:00 AM	CB12749	Pawtuxet Cove Surface	CB12754	BAY	0.5	3.52	20	6.92	506	9.92	496	98.5	24.8	1590	1270	886	5.5914	2.1275	2.0166	Due to extreme weather, all samples were filtered back in the lal
9/7/2022	8:45:00 AM	CB12750	Pawtuxet Cove Bottom	CB12754	BAY					99.2	5.98	93.2	250	118	1600	975	580	28.125			Due to extreme weather, all samples were filtered back in the lal
9/7/2022	10:35:00 AM	CB12766	Nutrient Blank	CB12766	RIVER					<6.000	<1.5	<6.0	11.5	<5.0	<20.000	<200.000	<100.000				
9/7/2022	8:40:00 AM	CB12755	Blackstone River @ Slater Mill	CB12766	RIVER	0.336	0.19	20.629	7.64	871	31.3	840	85.6	53.4	2030	1610	1300	27.917			
9/7/2022	8:40:00 AM	CB12756	Blackstone River @ Slater Mill (Duplicate)	CB12766	RIVER	0.336	0.19	20.629	7.64	869	30.8	838	85.6	52.7	2060	1740	1370	28.454			
9/7/2022	10:20:00 AM	CB12757	Blackstone River @ Stateline	CB12766	RIVER	0.438	0.13	19.743	7.2	437	28.8	408	295	43.9	1580	1270	1020	22.062			
9/7/2022	9:35:00 AM	CB12758	Blackstone River @ Bikepath Bridge	CB12766	RIVER	0.432	0.16	20.507	7.45	640	53.1	587	379	59.1	1870	1510	1370	25.306			
9/7/2022	12:40:00 PM	CB12759	Pawtuxet River @ Broad St.	CB12766	RIVER	0.437	0.14	19.587	6.93	484	7.94	476	57.4	11.9	2200	956	883	5.8			
9/7/2022	2:05:00 PM	CB12760	Woonasquatucket River @ Valley St.	CB12766	RIVER	0.258	0.14	20.852	7.17	329	2.55	326	24.2	15.5	2310	672	629	3.4694			
9/7/2022	1:45:00 PM	CB12761	Moshassuck River @ Footbridge at Mill St.	CB12766	RIVER	0.49	0.15	19.666	7.08	310	6.34	304	78.7	14	2590	883	707	7.4			
9/7/2022	1:15:00 PM	CB12762	Moshassuck River @ Higginson Ave	CB12766	RIVER	0.386	0.16	20.124	7.15	253	5.5	247	65.5	7.79	2680	824	643	4.7917			
9/7/2022	12:55:00 PM	CB12775	Nutrient Blank	CB12775	RIVER					<6.000	<1.5	<6.0	18.4	<5.0	<20.000	<200.000	<100.000				
9/7/2022	9:15:00 AM	CB12768	Coles River @ Milford Rd.	CB12775	RIVER	0.585	0.11	20.687	6.93	201	3.69	197	96	8.28	1320	1110	760	6.1224			
9/7/2022	9:55:00 AM	CB12769	Palmer River @ Rt. 6	CB12775	RIVER	0.603	0.36	18.776	6.43	259	7.83	251	57.3	56.9	2400	1120	865	9.3878			
9/7/2022	9:55:00 AM	CB12770	Palmer River @ Rt. 6 (Duplicate)	CB12775	RIVER	0.603	0.36	18.776	6.43	258	8.53	249	53	62.5	2460	1080	855	9.7959			
9/7/2022	10:20:00 AM	CB12771	Runnins River @ River Rd.	CB12775	RIVER	0.441	0.12	18.554	6.44	216	2.4	214	<7.000	20.4	2040	952	762	<2.0000			
9/7/2022	8:40:00 AM	CB12772	Taunton River @ Berkley Bridge	CB12775	RIVER	0.564	3.42	21.22	6.91	596	15.8	580	184	140	3150	1610	1160	8.5417			

Table 36: River and Bay Nutrients Data

River and Bay Nutrients Data
2022

									NUTRIENT PARAMETERS											
Collection Date	**Collection Time**	**Sample ID**	**Station**	**Associated Blank**	**Waterbody**	**Depth (meters)**	**Salinity (ppt)**	**Temp (°C)**	**pH**	**NO_3+NO_2 (ppb N)**	**NO_2 (ppb N)**	**NO_3 (ppb N)**	**NH_3 (ppb N)**	**Ortho-Phosphate (ppb P)**	**Silicate (ppb Si)**	**Total Nitrogen (ppb N)**	**Total Dissolved Nitrogen (ppb N)**	**TSS (ppm)**	**Chl *a* (µg/L)**	**Phaeo-phytin *a* (µg/L)**	**Comments**
9/7/2022	1:20:00 PM	CB12773	Ten Mile River @ Roger Williams Ave	CB12775	RIVER	0.286	0.23	21.036	6.96	298	6.69	291	64.5	14.4	1300	843	691	4.1584			Strong current
9/7/2022	12:45:00 PM	CB12774	Ten Mile River @ Central Ave	CB12775	RIVER	0.118	0.17	19.591	6.62	383	4.48	379	149	14.9	2540	1090	940	3.0928			Strong current
9/7/2022	1:40:00 PM	CB12763	Phillipsdale Landing Surface	CB12775	BAY	0.561	4.61	21.547	7.06	783	30.3	753	197	111	1820	1790	1350	11.875	2.2344	2.6736	
9/7/2022	2:40:00 PM	CB12764	Phillipsdale Landing Bottom	CB12775	BAY	1.719	7.48	21.809	7.23	557	17.5	539	270	108	1840	1690	1190	15.6			
9/21/2022	9:15:00 PM	CB14018	Nutrient Blank	CB14018	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
9/21/2022	8:30:00 AM	CB14008	Conimicut Point Surface	CB14018	BAY	0.5	28.24	21.56	7.94	42.5	6.85	35.6	12	40.1	1050	891	255	25.3610	17.089	5.8083	
9/21/2022	9:50:00 AM	CB14009	Edgewood Yacht Club Surface	CB14018	BAY	0.5	27.4	21.48	7.87	45	7.25	37.7	45.9	45.8	985	855	300	8.6021	16.707	6.7953	
9/21/2022	9:50:00 AM	CB14010	Edgewood Yacht Club Surface (Duplicate)	CB14018	BAY	0.5	27.4	21.48	7.87	45.1	7.81	37.3	47	45.1	1030	953	338	17.347	16.42	7.1064	
9/21/2022	7:55:00 AM	CB14011	Pomham Rocks Surface	CB14018	BAY	0.5	27.18	21.92	7.78	67.9	11.8	56.1	57.5	35.7	1150	824	329	6.1224	32.169	8.6448	
9/21/2022	1:25:00 PM	CB14012	India Point Park Surface	CB14018	BAY	0.5	25.91	22.53	7.94	162	24.2	138	7.13	8.34	1270	1160	399	10.833	70.898	7.3066	
9/21/2022	9:00:00 AM	CB14013	Bullock Reach Buoy Surface	CB14018	BAY	0.5	27.48	21.42	7.89	68.8	9.58	59.2	21.2	37.9	1100	775	281	7.7419	15.915	6.1806	
9/21/2022	8:10:00 AM	CB14014	Pawtuxet Cove Surface	CB14018	BAY	0.5	11.71	20.54	7.47	778	9.44	769	92.5	31.7	2660	1560	1260	6.2366	5.7009	2.8537	
9/21/2022	1:00:00 PM	CB14015	Phillipsdale Landing Surface	CB14018	BAY	0.5	12.28	21.54	8.42	515	39.5	475	<7.000	15.6	1690	1650	831	8.866	53.596	7.086	
9/21/2022	1:40:00 PM	CB14016	Edgewood Shoal Surface	CB14018	BAY	0.5	26.92	22	7.96	38.8	9.23	29.6	10.9	41.4	1080	953	251	9.6907	25.632	6.7545	
9/21/2022	1:45:00 PM	CB14017	Edgewood Shoal Bottom	CB14018	BAY					61.7	11.3	50.4	248	102	1500	856	523	21.25			
9/21/2022	10:25:00 AM	CB14031	Nutrient Blank	CB14031	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	112	<200.000	<100.000				
9/21/2022	8:50:00 AM	CB14023	Blackstone River @ Slater Mill	CB14031	RIVER	0.38	0.29	19.58	7.57	1640	77.3	1560	46.8	30	2210	2090	1950	5.4167			
9/21/2022	8:05:00 AM	CB14024	Pawtuxet River @ Broad St.	CB14031	RIVER	0.523	2.18	20.04	6.92	1280	6.87	1270	41.1	7.14	3580	1800	1650	2.0619			
9/21/2022	1:55:00 PM	CB14025	Woonasquatucket River @ Valley St.	CB14031	RIVER	0.306	0.23	19.32	7.61	990	3.86	986	7.08	<5.0	2740	1330	1230	<2.0000			
9/21/2022	12:40:00 PM	CB14026	Woonasquatucket River @ Manton Ave. Bridge	CB14031	RIVER	0.256	0.2	20.08	7.17	888	4.73	883	24.2	<5.0	2680	1130	1090	<2.0000			
9/21/2022	12:40:00 PM	CB14027	Woonasquatucket River @ Manton Ave. Bridge (Duplicate	CB14031	RIVER	0.256	0.2	20.08	7.17	888	5	883	25.1	<5.0	2720	1230	1170	<2.0000			
9/21/2022	1:35:00 PM	CB14028	Moshassuck River @ Footbridge at Mill St.	CB14031	RIVER	0.405	0.24	17.654	7.27	544	10.7	533	60.2	8.35	4150	953	879	2.8571			
9/21/2022	9:10:00 AM	CB14029	Moshassuck River @ Higginson Ave	CB14031	RIVER	0.344	0.21	18.508	6.98	272	19.2	253	99.7	10.1	3810	904	628	3			
9/21/2022	10:15:00 AM	CB14030	Ten Mile River @ Roger Williams Ave	CB14031	RIVER	0.4445	0.23	20.317	7.11	386	15.6	370	88.5	21.8	2740	1180	924	<2.0000			
10/5/2022	1:05:00 PM	CB15076	Nutrient Blank	CB15076	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
10/5/2022	8:50:00 AM	CB15067	Blackstone River @ Slater Mill	CB15076	RIVER	0.477	0.26	14.476	7.55	1750	33.1	1720	32.3	25	1870	2000	2090	<2.0000			
10/5/2022	10:20:00 AM	CB15068	Blackstone River @ Stateline	CB15076	RIVER	0.637	0.23	13.551	7.84	1520	16.4	1500	14.9	52.3	1950	1760	1900	5.7732			
10/5/2022	9:25:00 AM	CB15069	Blackstone River @ Bikepath Bridge	CB15076	RIVER	0.225	0.31	14.444	7.88	1900	35.8	1860	19.8	51.4	2010	2140	2300	2.4242			
10/5/2022	9:25:00 AM	CB15070	Blackstone River @ Bikepath Bridge (Duplicate)	CB15076	RIVER	0.225	0.31	14.444	7.88	1900	36.5	1860	21	51.9	2070	2140	2260	2.0202			
10/5/2022	7:30:00 AM	CB15071	Pawtuxet River @ Broad St.	CB15076	RIVER	0.503	0.19	14.838	7.03	1120	21.1	1100	51.6	<5.0	2840	1360	1420	3.0435			
10/5/2022	1:20:00 PM	CB15072	Woonasquatucket River @ Valley St.	CB15076	RIVER	0.233	0.18	14.722	7.49	466	2.28	464	12.2	<5.0	2230	630	647	2.8			
10/5/2022	1:00:00 PM	CB15073	Woonasquatucket River @ Manton Ave. Bridge	CB15076	RIVER	0.455	0.18	14.804	7.4	428	2.65	425	23	<5.0	2220	610	635	<2.0000			
10/5/2022	1:50:00 PM	CB15074	Moshassuck River @ Footbridge at Mill St.	CB15076	RIVER	0.178	0.23	14.292	7.34	421	6.55	414	40.9	9.51	3060	608	621	2.2222			
10/5/2022	12:25:00 PM	CB15086	Nutrient Blank	CB15086	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
10/5/2022	10:20:00 AM	CB15077	Coles River @ Milford Rd.	CB15086	RIVER	0.5	0.14	13.92	7.4	19.9	1.74	18.2	11.7	<5.0	3890	676	561	2.9474			
10/5/2022	10:45:00 AM	CB15078	Palmer River @ Rt. 6	CB15086	RIVER	0.5	3.1	13.92	6.77	256	4.9	251	54.1	17.5	4670	835	717	8.6598			
10/5/2022	12:15:00 PM	CB15079	Runnins River @ River Rd.	CB15086	RIVER	0.5	0.2	13.52	7.09	217	1.98	215	<7.000	12.4	3430	530	517	3.5051			
10/5/2022	9:50:00 AM	CB15080	Taunton River @ Berkley Bridge	CB15086	RIVER	0.5	4.75	14.39	6.94	789	12.3	777	72	79.6	4180	1260	1200	20.851			
10/5/2022	7:40:00 AM	CB15081	Ten Mile River @ Roger Williams Ave	CB15086	RIVER	0.5	0.25	14.11	7.48	656	14.3	642	60.9	34.6	2440	989	1040	3.4			
10/5/2022	8:45:00 AM	CB15082	Ten Mile River @ Central Ave	CB15086	RIVER	0.5	0.3	13.36	7.62	1180	8.34	1170	99.2	14.7	3370	1440	1540	2.439			
10/5/2022	8:45:00 AM	CB15083	Ten Mile River @ Central Ave. (Duplicate	CB15086	RIVER	0.5	0.3	13.36	7.62	1170	9.11	1160	104	12.5	3410	1410	1590	2.4691			
10/5/2022	8:00:00 AM	CB15084	Phillipsdale Landing Surface	CB15086	BAY	0.5	22.15	15.58	7.39	539	31.4	508	310	171	1410	1200	1220	26.804	2.7121	2.8985	
10/5/2022	8:05:00 AM	CB15085	Phillipsdale Landing Bottom	CB15086	BAY					331	23.1	308	245	109	1150	1070	880	34.588			
10/19/2022	12:45:00 PM	CB15063	Nutrient Blank	CB15063	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Filtered in lab
10/19/2022	8:25:00 AM	CB15050	Conimicut Point Surface	CB15063	BAY	0.5	22.76	15.595	7.7	276	14.7	261	141	77.9	1190	802	596	25.319	2.0352	0.98565	Filtered in lab
10/19/2022	8:30:00 AM	CB15051	Conimicut Point Bottom	CB15063	BAY					77.4	9.67	67.7	97.3	47.6	807	528	306	48.913			Filtered in lab
10/19/2022	9:30:00 AM	CB15052	Edgewood Yacht Club Surface	CB15063	BAY	0.5	19.97	15.135	7.63	293	14.1	279	186	106	1360	887	697	12.979	1.6794	1.5205	Filtered in lab
10/19/2022	9:35:00 AM	CB15053	Edgewood Yacht Club Bottom	CB15063	BAY					112	12.7	99.3	186	72.9	943	703	454	41.474			Filtered in lab
10/19/2022	9:40:00 AM	CB15054	Pomham Rocks Surface	CB15063	BAY	0.5	16.16	13.878	7.58	345	14	331	183	88.4	1540	943	764	19.787	0.88821	1.1747	Filtered in lab
10/19/2022	9:45:00 AM	CB15055	Pomham Rocks Bottom	CB15063	BAY					107	11.4	95.6	144	60.5	862	589	387	46.875			Filtered in lab
10/19/2022	9:55:00 AM	CB15056	India Point Park Surface	CB15063	BAY	0.5	19.09	14.293	7.62	427	11.7	415	167	98.1	1880	1030	843	11.25	1.855	1.8343	Filtered in lab
10/19/2022	9:55:00 AM	CB15057	India Point Park Surface (Duplicate)	CB15063	BAY	0.5	19.09	14.293	7.62	427	12	415	161	96.3	1900	1010	900	10.204	0.93753	1.491	Filtered in lab
10/19/2022	10:00:00 AM	CB15058	India Point Park Bottom	CB15063	BAY					113	11.5	101	159	61.3	901	633	413	38.75			Filtered in lab
10/19/2022	8:50:00 AM	CB15059	Bullock Reach Buoy Surface	CB15063	BAY	0.5	24.17	15.728	7.72	236	14.7	221	140	76.6	1050	759	563	30.889	2.6212	1.3193	Filtered in lab
10/19/2022	8:55:00 AM	CB15060	Bullock Reach Buoy Bottom	CB15063	BAY					52	4.22	47.8	159	16.8	1130	730	532	29.1670			Filtered in lab
10/19/2022	9:20:00 AM	CB15061	Pawtuxet Cove Surface	CB15063	BAY	0.5	10.67	15.542	7.3	801	25.8	775	107	31.8	2820	1300	1180	8.866	1.0481	1.6657	Filtered in lab
10/19/2022	9:25:00 AM	CB15062	Pawtuxet Cove Bottom	CB15063	BAY					86.4	10.4	76	105	50.5	841	562	322	32.211			Filtered in lab
10/19/2022	10:20:00 AM	CB16111	Phillipsdale Landing Surface	CB15063	BAY	0.5	3.27	14.322	7.3	426	7.68	418	111	59.2	2020	957	806	4.375	1.1158	1.1812	Filtered in lab
10/19/2022	9:45:00 AM	CB16120	Nutrient Blank	CB16120	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
10/19/2022	10:00:00 AM	CB16112	Blackstone River @ Slater Mill	CB16120	RIVER	0.509	0.18	13.93	7.38	437	3.98	433	21.1	17.6	2190	802	748	11.277			
10/19/2022	8:30:00 AM	CB16113	Pawtuxet River @ Broad St.	CB16120	RIVER	0.49	3.86	14.46	6.84	795	25.3	770	127	32.7	2610	1340	1200	14.255			
10/19/2022	1:15:00 PM	CB16114	Woonasquatucket River @ Valley St.	CB16120	RIVER	0.5	0.16	13.87	7.25	362	2.33	360	10.3	<5.0	2330	605	564	<2.0000			
10/19/2022	1:15:00 PM	CB16115	Woonasquatucket River @ Valley St. (Duplicate)	CB16120	RIVER	0.5	0.16	13.87	7.25	355	2.62	352	9.2	<5.0	2270	608	572	<2.0000			
10/19/2022	12:45:00 PM	CB16116	Woonasquatucket River @ Manton Ave. Bridge	CB16120	RIVER	0.491	0.14	13.99	7.26	311	2.34	309	18.3	5.65	2240	586	567	2.526			
10/19/2022	2:00:00 PM	CB16117	Moshassuck River @ Footbridge at Mill St.	CB16120	RIVER	0.391	0.2	13.24	7.27	343	4.86	338	39.1	11.2	3440	593	605	2.2449			
10/19/2022	10:30:00 AM	CB16118	Moshassuck River @ Higginson Ave	CB16120	RIVER	0.498	0.21	13.29	7.3	188	4.8	183	38.3	6.61	3130	488	493	<2.0000			
10/19/2022	9:30:00 AM	CB16119	Ten Mile River @ Roger Williams Ave	CB16120	RIVER	0.5	0.21	14.99	7.26	539	9.45	530	73.4	16	3000	1000	1070	5.1546			
11/2/2022	8:50:00 AM	CB17088	Nutrient Blank	CB17088	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
11/2/2022	8:20:00 AM	CB17075	Conimicut Point Surface	CB17088	BAY	0.5	26.21	15.232	7.7	186	10.2	176	102	70.7	1140	380	448	8.2000	2.1864	1.6448	
11/2/2022	8:25:00 AM	CB17076	Conimicut Point Bottom	CB17088	BAY					115	8.2	107	88.7	56.1	896	495	333	7.5000			
11/2/2022	2:00:00 PM	CB17077	Edgewood Yacht Club Surface	CB17088	BAY	0.5	25.22	16	7.65	188	9.69	178	125	92.9	1230	648	459	9.3182	3.8454	1.5839	
11/2/2022	2:05:00 PM	CB17078	Edgewood Yacht Club Bottom	CB17088	BAY					109	8.8	100	97.7	60.1	929	527	361	15.5560			
11/2/2022	9:15:00 AM	CB17079	Pomham Rocks Surface	CB17088	BAY	0.5	25.69	15.282	7.7	176	9.46	167	119	66.7	1210	638	476	6.3529	1.2455	1.4932	
11/2/2022	9:20:00 AM	CB17080	Pomham Rocks Bottom	CB17088	BAY					111	8.65	102	105	60.3	860	551	367	14.6510			
11/2/2022	9:40:00 AM	CB17081	India Point Park Surface	CB17088	BAY	0.5	10.01	13.71	7.46	359	8.7	350	106	68.1	1960	803	666	4.6667	1.4085	1.4853	
11/2/2022	9:45:00 AM	CB17082	India Point Park Bottom	CB17088	BAY					135	9.29	126	130	65.5	1070	575	440	10.682			
11/2/2022	8:35:00 AM	CB17083	Bullock Reach Buoy Surface	CB17088	BAY	0.5	25.13	15.234	7.71	225	10.8	214	115	84.6	1280	621	501	8.9655	1.4215	1.0484	
11/2/2022	8:40:00 AM	CB17084	Bullock Reach Buoy Bottom	CB17088	BAY					120	8.86	111	84.8	59.5	942	540	343	8.8889			
11/2/2022	1:15:00 PM	CB17085	Pawtuxet Cove Surface	CB17088	BAY	0.5	4.41	14.024	7.25	1200	13.1	1190	61.9	22	3010	1550	1400	9.3333	1.256	1.6778	
11/2/2022	1:15:00 PM	CB17086	Pawtuxet Cove Surface (Duplicate)	CB17088	BAY	0.5	4.41	14.024	7.25	1190	12.9	1180	60.3	22.5	3110	1570	1410	9.2857	1.5412	2.3254	
11/2/2022	1:20:00 PM	CB17087	Pawtuxet Cove Bottom	CB17088	BAY					252	10.6	241	117	73.9	1360	837	532	23.2			
11/2/2022	10:35:00 AM	CB17101	Nutrient Blank	CB17101	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
11/2/2022	8:35:00 AM	CB17092	Blackstone River @ Slater Mill	CB17101	RIVER	0.514	0.19	12.351	7.45	433	3.76	429	31.5	19.9	2520	626	677	<2.0000			
11/2/2022	9:50:00 AM	CB17093	Blackstone River @ Stateline	CB17101	RIVER	0.515	0.18	12.538	7.32	328	3.35	325	22.6	19.5	2050	526	563	3.1579			
11/2/2022	9:10:00 AM	CB17094	Blackstone River @ Bikepath Bridge	CB17101	RIVER	0.477	0.19	12.711	7.3	426	4.26	422	27.5	15.6	2470	617	684	2.8571			
11/2/2022	7:35:00 AM	CB17095	Pawtuxet River @ Broad St.	CB17101	RIVER	0.492	0.2	13.546	7.07	1500	33.4	1470	50.4	18.2	3660	1580	1780	4.5833			
11/2/2022	2:05:00 PM	CB17096	Woonasquatucket River @ Valley St.	CB17101	RIVER	0.52	0.17	14.106	7.37	534	2.02	532	12.3	<5.0	2680	633	723	<2.0000			
11/2/2022	12:45:00 PM	CB17097	Moshassuck River @ Footbridge at Mill St.	CB17101	RIVER	0.356	0.23	13.72	7.29	434	4.41	430	37.9	15.4	4230	579	677	<2.0000			
11/2/2022	1:15:00 PM	CB17098	Moshassuck River @ Higginson Ave	CB17101	RIVER	0.508	0.22	13.223	7.16	268	5.61	262	38.2	10	3750	517	518	<2.0000			
11/2/2022	1:15:00 PM	CB17099	Moshassuck River @ Higginson Ave. (Duplicate	CB17101	RIVER	0.508	0.22	13.223	7.16	269	5.61	263	34	9.51	3670	456	579	<2.0000			
11/2/2022	2:00:00 PM	CB17111	Nutrient Blank	CB17111	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
11/2/2022	1:15:00 PM	CB17102	Coles River @ Milford Rd.	CB17111	RIVER	0.513	0.1	12.57	6.98	46.4	5.65	40.7	41.2	27.1	4100	1000	1080	3.5051			
11/2/2022	1:45:00 PM	CB17103	Palmer River @ Rt. 6	CB17111	RIVER	0.564	9.11	13.76	6.86	159	5.89	153	60.7	18.3	4050	953	711	12.165			
11/2/2022	10:30:00 AM	CB17104	Runnins River @ River Rd.	CB17111	RIVER	0.501	0.26	11.62	7.17	271	3.16	268	12.9	12.8	5840	745	768	2.0833			
11/2/2022	10:30:00 AM	CB17105	Runnins River @ River Rd. (Duplicate)	CB17111	RIVER	0.501	0.26	11.62	7.17	268	3.47	265	15	14.3	6340	679	775	<2.0000			
11/2/2022	8:05:00 AM	CB17106	Taunton River @ Berkley Bridge	CB17111	RIVER	0.534	0.53	11.84	7.03	561	11.4	550	81.3	51.8	3960	1090	1210	9.5833			
11/2/2022	8:50:00 AM	CB17107	Ten Mile River @ Roger Williams Ave	CB17111	RIVER	0.461	0.24	13.5	7.25	816	17.7	798	88.4	30.2	3850	1110	1260	2.8866			
11/2/2022	10:00:00 AM	CB17108	Ten Mile River @ Central Ave	CB17111	RIVER	0.512	0.28	12.72	7.58	1430	9.8	1420	53.1	29.6	3880	1570	1830	3.7895			
11/2/2022	9:10:00 AM	CB17109	Phillipsdale Landing Surface	CB17111	BAY	0.543	12.26	13.08	7.02	417	9.9	407	113	118	2400	985	787	12	4.9239	1.2202	
11/2/2022	9:15:00 AM	CB17110	Phillipsdale Landing Bottom	CB17111	BAY	1.374	14.19	14.45	7.24	348	11.6	336	136	104	1890	1010	753	25.6250			
11/16/2022	1:25:00 PM	CB18078	Nutrient Blank	CB18078	RIVER					13.1	<1.5	13.1	<7.000	<5.0	45.9	<200.000	<100.000				
11/16/2022	9:15:00 AM	CB18070	Blackstone River @ Slater Mill	CB18078	RIVER	0.566	0.2	9.578	7.36	396	4.41	392	<7.000	16	2320	627	708	2.0408			
11/16/2022	8:30:00 AM	CB18071	Pawtuxet River @ Broad St.	CB18078	RIVER	0.49	0.26	9.493	7.02	1200	6.35	1190	26.2	29.5	2870	1450	1610	6.1224			
11/16/2022	2:30:00 PM	CB18072	Woonasquatucket River @ Valley St.	CB18078	RIVER	0.314	0.14	10.207	7.32	410	2.54	407	<7.000	<5.0	2010	560	628	4.583			
11/16/2022	2:05:00 PM	CB18073	Woonasquatucket River @ Manton Ave. Bridge	CB18078	RIVER	0.151	0.13	10.1	7.27	352	2.17	350	<7.000	5.35	1980	497	680	4.2857			
11/16/2022	10:10:00 AM	CB18074	Moshassuck River @ Footbridge at Mill St.	CB18078	RIVER	0.551	0.12	9.256	7.31	244	6.72	237	<7.000	20.1	1960	485	480	7.2727			
11/16/2022	9:30:00 AM	CB18075	Moshassuck River @ Higginson Ave	CB18078	RIVER	0.527	0.21	9.153	7.35	206	4.13	202	<7.000	6.13	3580	441	448	2.449			
11/16/2022	1:15:00 PM	CB18076	Ten Mile River @ Roger Williams Ave	CB18078	RIVER	0.528	0.24	11.287	7.27	1240	12.8	1230	21.9	42.7	3830	1520	1610	3.75			
11/16/2022	1:15:00 PM	CB18077	Ten Mile River @ Roger Williams Ave. (Duplicate	CB18078	RIVER	0.528	0.24	11.287	7.27	1240	13	1230	32.4	41.7	4140	1520	1610	3.2653			
11/17/2022	1:30:00 PM	CB18066	Nutrient Blank	CB18066	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
11/17/2022	10:05:00 AM	CB18056	Conimicut Point Surface	CB18066	BAY	0.584	27.91	12.45	7.71	150	9.17	141	106	56	908	483	478	9.7872	1.514	0.82683	
11/17/2022	9:20:00 AM	CB18057	Edgewood Yacht Club Surface	CB18066	BAY	0.555	24.85	12.12	7.62	216	13.3	203	190	77.6	1100	645	572	7.6000	0.70104	0.97929	
11/17/2022	8:55:00 AM	CB18058	Pomham Rocks Surface	CB18066	BAY	0.508	22.47	12.05	7.58	215	10.2	205	139	55.6	1300	645	592	24.286	0.53277	0.94875	
11/17/2022	8:30:00 AM	CB18059	India Point Park Surface	CB18066	BAY	0.544	11.66	10.55	7.33	420	10.3	410	142	58.8	1990	866	849	16.596	0.89556	1.8448	

Table 36: River and Bay Nutrients Data

River and Bay Nutrients Data
2022

									NUTRIENT PARAMETERS											
Collection Date	**Collection Time**	**Sample ID**	**Station**	**Associated Blank**	**Waterbody**	**Depth (meters)**	**Salinity (ppt)**	**Temp (°C)**	**pH**	**NO_3+NO_2 (ppb N)**	**NO_2 (ppb N)**	**NO_3 (ppb N)**	**NH_3 (ppb N)**	**Ortho-Phosphate (ppb P)**	**Silicate (ppb Si)**	**Total Nitrogen (ppb N)**	**Total Dissolved Nitrogen (ppb N)**	**TSS (ppm)**	**Chl *a* (µg/L)**	**Phaeo-phytin *a* (µg/L)**	**Comments**
11/17/2022	10:15:00 AM	CB18060	Bullock Reach Buoy Surface	CB18066	BAY	0.51	28.22	12.51	7.72	132	9.43	123	98.8	55.4	838	500	377	30.851	1.4924	1.006	
11/17/2022	9:25:00 AM	CB18061	Pawtuxet Cove Surface	CB18066	BAY	0.501	10.26	10.5	7.24	870	7.6	862	199	28.4	2780	1390	1270	9	0.73278	0.99039	
11/17/2022	12:50:00 PM	CB18062	Phillipsdale Landing Surface	CB18066	BAY	0.555	5.1	9.81	7.58	693	11.4	682	160	106	2580	1220	1170	9.5833	2.081	2.074	
11/17/2022	9:05:00 AM	CB18063	Edgewood Shoal Surface	CB18066	BAY	0.526	26.87	12.73	7.63	174	11.5	162	135	68	951	584	469	25.895	0.65772	0.80043	
11/17/2022	9:05:00 AM	CB18064	Edgewood Shoal Surface (Duplicate)	CB18066	BAY	0.526	26.87	12.73	7.63	171	11.4	160	140	68.2	948	537	471	24.8	0.71892	0.92742	
11/17/2022	9:10:00 AM	CB18065	Edgewood Shoal Bottom	CB18066	BAY	5.043	29.85	14.75	7.82	108	9.12	98.9	97.1	54.9	782	446	314	38.667			
11/29/2022	10:05:00 AM	CB19083	Conimicut Point Surface	CB19096	BAY	0.5	26.33	8.598	7.64	226	12.9	213	103	58.6	1010	602	579	2.3404	<0.300	0.31278	Filtered in lab
11/29/2022	10:05:00 AM	CB19084	Conimicut Point Surface (Duplicate)	CB19096	BAY	0.5	26.33	8.598	7.64	228	13	215	104	59	1030	570	557	3.1915	0.47163	0.99036	Filtered in lab
11/29/2022	10:10:00 AM	CB19085	Conimicut Point Bottom	CB19096	BAY					210	12.2	198	99	54	955	553	473	<2.0000			Filtered in lab
11/29/2022	10:32:00 AM	CB19086	Edgewood Yacht Club Surface	CB19096	BAY	0.5	24.93	8.957	7.62	258	15	243	149	79	1190	674	698	<2.0000	0.69132	0.57981	Filtered in lab
11/29/2022	10:37:00 AM	CB19087	Edgewood Yacht Club Bottom	CB19096	BAY					181	11.8	169	96.4	54.4	917	533	463	9.2632			Filtered in lab
11/29/2022	10:40:00 AM	CB19088	Pomham Rocks Surface	CB19096	BAY	0.5	25.01	8.729	7.65	247	12.1	235	117	62.3	1140	620	543	12.258	<0.300	0.57588	Filtered in lab
11/29/2022	10:45:00 AM	CB19089	Pomham Rocks Bottom	CB19096	BAY					188	12	176	100	57.6	931	538	440	31.304			Filtered in lab
11/29/2022	10:55:00 AM	CB19090	India Point Park Surface	CB19096	BAY	0.5	22.33	9.023	7.64	265	11.7	253	104	50.4	1240	625	505	25.0000	0.59097	0.67869	Filtered in lab
11/29/2022	11:00:00 AM	CB19091	India Point Park Bottom	CB19096	BAY					183	10.7	172	97.5	51.9	1020	528	491	7.7083			Filtered in lab
11/29/2022	9:55:00 AM	CB19092	Bullock Reach Buoy Surface	CB19096	BAY	0.5	26.55	8.514	7.6	231	12.8	218	107	54.3	1030	608	481	6.1224	0.78657	0.747	Filtered in lab
11/29/2022	10:00:00 AM	CB19093	Bullock Reach Buoy Bottom	CB19096	BAY					169	12	157	75.1	45.2	817	444	337	8.5417			Filtered in lab
11/29/2022	10:25:00 AM	CB19094	Pawtuxet Cove Surface	CB19096	BAY	0.5	9.22	7.788	7.18	1210	12.4	1200	132	24.4	2730	1640	1580	3.3333	0.69408	1.079	Filtered in lab
11/29/2022	10:30:00 AM	CB19095	Pawtuxet Cove Bottom	CB19096	BAY					381	14	367	137	65.3	1330	777	699	14.3750			Filtered in lab
11/29/2022	12:15:00 PM	CB19096	Nutrient Blank	CB19096	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Filtered in lab
11/30/2022	8:55:00 AM	CB19100	Blackstone River @ Slater Mill	CB19110	RIVER	0.508	0.23	6.074	7.47	666	6.82	659	24.4	9.5	2890	823	904	<2.0000			Filtered in lab
11/30/2022	8:20:00 AM	CB19101	Pawtuxet River @ Broad St.	CB19110	RIVER	0.487	0.19	7.579	7.35	1780	7.84	1770	74.2	29	3460	2020	2160	<2.0000			Filtered in lab
11/30/2022	8:20:00 AM	CB19102	Pawtuxet River @ Broad St. (Duplicate)	CB19110	RIVER	0.487	0.19	7.579	7.35	1820	7.42	1810	77.4	30.1	3610	2000	2200	<2.0000			Filtered in lab
11/30/2022	10:50:00 AM	CB19103	Woonasquatucket River @ Valley St.	CB19110	RIVER	0.51	0.17	6.309	7.51	466	1.86	464	<7.000	<5.0	2080	600	730	<2.0000			Filtered in lab
11/30/2022	10:40:00 AM	CB19104	Woonasquatucket River @ Manton Ave. Bridge	CB19110	RIVER	0.507	0.13	5.97	7.5	409	2.15	407	10.8	<5.0	2010	561	740	<2.0000			Filtered in lab
11/30/2022	11:15:00 AM	CB19105	Moshassuck River @ Footbridge at Mill St.	CB19110	RIVER	0.477	0.22	6.871	7.31	433	4.69	428	42.4	7.63	3850	576	624	<2.0000			Filtered in lab
11/30/2022	9:12:00 AM	CB19106	Moshassuck River @ Higginson Ave.	CB19110	RIVER	0.498	0.2	5.453	7.45	310	3.4	307	14.1	<5.0	3480	488	533	<2.0000			Filtered in lab
11/30/2022	10:20:00 AM	CB19107	Ten Mile River @ Roger Williams Ave	CB19110	RIVER	0.508	0.2	5.858	7.55	1920	11.8	1910	44.4	18.6	3870	2120	2400	<2.0000			Filtered in lab
11/30/2022	10:00:00 AM	CB19108	Phillipsdale Landing Surface	CB19110	BAY	0.505	12.57	7.808	7.4	677	10.4	667	85.6	48.9	2380	986	964	<2.0000	0.61113	1.55	Filtered in lab
11/30/2022	10:05:00 AM	CB19109	Phillipsdale Landing Bottom	CB19110	BAY	2.31	18.51	8.021	7.46	273	11.9	261	126	59.3	1330	668	578	13.647			Filtered in lab
11/30/2022	11:00:00 AM	CB19110	Nutrient Blank	CB19110	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				Filtered in lab
12/14/2022	9:30:00 AM	CB20201	Blackstone River @ Slater Mill	CB20209	RIVER	0.524	0.18	2.375	7.48	20.6	<1.5	20.6	<7.000	<5.0	73.2	818	<100.000	9.2473			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	8:30:00 AM	CB20202	Blackstone River @ Stateline	CB20209	RIVER	0.512	0.21	1.949	7.58	543	6.76	536	41.5	11.8	3240	772	811	2.9787			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	9:00:00 AM	CB20203	Blackstone River @ Bikepath Bridge	CB20209	RIVER	0.401	0.19	2.178	7.46	595	7.86	587	35.1	9.48	3220	828	859	2.3913			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	7:30:00 AM	CB20204	Pawtuxet River @ Broad St.	CB20209	RIVER	0.46	0.17	3.08	7.58	1270	9.26	1260	81.4	27.9	3900	1500	1580	2.0833			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:15:00 AM	CB20205	Woonasquatucket River @ Valley St.	CB20209	RIVER	0.506	0.14	2.511	7.3	493	1.81	491	<7.000	<5.0	2320	661	739	2.1739			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:00:00 AM	CB20206	Woonasquatucket River @ Manton Ave. Bridge	CB20209	RIVER	0.499	0.13	2.367	7.29	449	1.52	447	12	<5.0	2240	620	737	2.5806			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:30:00 AM	CB20207	Moshassuck River @ Footbridge at Mill St.	CB20209	RIVER	0.478	0.19	2.79	7.31	491	3.87	487	47.7	9.64	4530	702	745	<2.0000			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:30:00 AM	CB20208	Moshassuck River @ Footbridge at Mill St. (Duplicate)	CB20209	RIVER	0.478	0.19	2.79	7.31	490	4.02	486	57.3	10.2	3940	670	782	<2.0000			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:50:00 AM	CB20209	Nutrient Blank	CB20209	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	33.8	<200.000	<100.000				
12/14/2022	8:45:00 AM	CB20210	Coles River @ Milford Rd.	CB20217	RIVER	0.52	0.07	2.63	6.9	114	3.97	110	13.7	13.2	1240	720	729	<2.0000			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	9:00:00 AM	CB20211	Palmer River @ Rt. 6	CB20217	RIVER	0.52	1.88	0.73	6.69	286	4.06	282	31.2	8.68	3620	773	789	4.6154			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	9:15:00 AM	CB20212	Runnins River @ River Rd.	CB20217	RIVER	0.37	0.26	0.65	7.1	600	3.95	596	40.4	8.75	5400	872	984	<2.0000			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	8:15:00 AM	CB20213	Taunton River @ Berkley Bridge	CB20217	RIVER	0.481	0.16	2.13	7.22	492	14.3	478	279	26.6	4020	1120	1200	2.3913			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	8:15:00 AM	CB20214	Taunton River @ Berkley Bridge (Duplicate	CB20217	RIVER	0.481	0.16	2.13	7.22	491	14.4	477	284	26.3	3470	1140	1210	2.5			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	9:45:00 AM	CB20215	Ten Mile River @ Roger Williams Ave	CB20217	RIVER	0.53	0.2	2.31	7.21	1620	9.26	1610	43.9	15.6	3910	1920	2190	2.8866			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	10:15:00 AM	CB20216	Ten Mile River @ Central Ave	CB20217	RIVER	0.33	0.24	2.52	7.05	1950	7.27	1940	49.7	10.9	3440	2250	2420	4.0425			As of 12/14/2022, a new sampling protocol was implemented and all samples will be filtered in the lat
12/14/2022	1:00:00 PM	CB20217	Nutrient Blank	CB20217	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
12/28/2022	8:00:00 AM	CB21197	Blackstone River @ Slater Mill	CB21207	RIVER	0.54	0.16	1.36	7.2	571	5.53	565	170	16.4	2830	908	957	2.6506			
12/28/2022	8:00:00 AM	CB21198	Blackstone River @ Slater Mill (Duplicate)	CB21207	RIVER	0.54	0.16	1.36	7.2	569	5.82	563	169	16.1	2930	1010	950	2.4176			
12/28/2022	7:30:00 AM	CB21199	Pawtuxet River @ Broad St.	CB21207	RIVER	0.16	0.12	1.87	7.29	1230	15.6	1210	118	20.2	3330	1580	1710	<2.0000			Strong flow
12/28/2022	10:20:00 AM	CB21200	Woonasquatucket River @ Valley St.	CB21207	RIVER	0.24	0.11	2.02	7.36	490	2.36	488	12.8	<5.0	2680	651	796	<2.0000			
12/28/2022	10:05:00 AM	CB21201	Woonasquatucket River @ Manton Ave. Bridge	CB21207	RIVER	0.22	0.11	1.93	7.41	449	2.73	446	14.2	<5.0	2500	665	680	2.045			
12/28/2022	10:40:00 AM	CB21202	Moshassuck River @ Footbridge at Mill St.	CB21207	RIVER	0.35	0.18	2.54	7.34	616	4.18	612	56.8	10	3800	713	867	<2.0000			
12/28/2022	8:30:00 AM	CB21203	Moshassuck River @ Higginson Ave	CB21207	RIVER	0.53	0.17	1.98	7.18	573	3.41	570	22.3	7.16	3390	815	767	<2.0000			
12/28/2022	8:50:00 AM	CB21204	Ten Mile River @ Roger Williams Ave	CB21207	RIVER	0.53	0.16	1.44	7.12	1230	6.3	1220	33.2	13.2	3330	1440	1620	2.857			
12/28/2022	9:05:00 AM	CB21205	Phillipsdale Landing Surface	CB21207	BAY	0.51	3.77	1.8	7.15	797	10.6	786	102	28	3050	1130	1160	3.2609			
12/28/2022	9:07:00 AM	CB21206	Phillipsdale Landing Bottom	CB21207	BAY	1.72	15.12	3.69	7.62	306	8.11	298	99.4	23.4	1620	710	696	18.481			
12/28/2022	9:30:00 AM	CB21207	Nutrient Blank	CB21207	RIVER/BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				

Table 36: River and Bay Nutrients Data

Dry Weather Overflow Bacteria Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

			FECAL		ENTERO	
	Station Name	**Station Type**	**6/23/2022[1]**	**9/19/2022[2]**	**6/23/2022[1]**	**9/19/2022[2]**
Blackstone River	**Roosevelt St.**	RIVER	230.0		72.7	
	Slater Mill, West Bank	RIVER	230.0		37.9	
	Central Ave.	RIVER	2300.0		38.1	
West River	**Veazie St. Bridge**	RIVER		230.0		
	Hawkins St	RIVER		24000.0		
	West River St. Bridge	RIVER		24000.0		
	River Fecal Coliform Blank	RIVER	<30.0			
	River Enterococci Blank	RIVER		<1.0		

[1] DWO occurred at CSO 212 (Broadway at Main Street) and CSO 215 (Division Street). The overflow was caused by a watermain break located at Walcott Street and Arlington Street in Pawtucket.

[2] DWO occurred on the West River via a City of Providence-owned surcharging manhole on Hawkins St.

Table 37: Dry Weather Overflow Bacteria Data

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	1/3/2022	1/4/2022	1/10/2022	1/11/2022	1/18/2022	1/19/2022	1/24/2022	1/25/2022	1/27/2022	1/31/2022	2/1/2022	2/7/2022	2/8/2022	2/14/2022
Blackstone River	Whipple Bridge (BL-2)	70.0		<30.0		230.0		90.0			<30.0		390.0		40.0
	Roosevelt St. (BL-4)	<30.0		<30.0		40.0		90.0			<30.0		40.0		40.0
	Central Ave. (BL-4C)	90.0		90.0		430.0		140.0			40.0		150.0		30.0
	Slater Mill Dam (BL-3)	150.0		30.0		40.0		40.0			<30.0		40.0		40.0
Seekonk River	River Dr. (SR-4A)		70.0		3900.0		430.0		40.0					1500.0	
Moshassuck River	Higginson Ave. Bridge (M-1)		930.0		<30.0		40.0		40.0	<30.0		90.0		70.0	
	Grotto Ave. Bridge (M-4C)		2300.0		4300.0		930.0		9300.0	9300.0		930.0		140.0	
	Cemetery St. Bridge (M-4)		9300.0		2300.0		750.0		3900.0	24000.0		1500.0		430.0	
	Stevens St. Bridge (M-5A)		1500.0		4300.0				1500.0	24000.0		430.0		230.0	
	Footbridge @ Mill St. (M-5)	930.0	430.0	230.0	9300.0	430.0	230.0	4300.0	1500.0	9300.0	430.0	230.0	430.0	430.0	90.0
	Footbridge @ Mill St. (M-5) Duplicate	230.0	1500.0	930.0	4300.0	430.0	430.0	4300.0	2300.0		230.0	930.0	430.0	750.0	90.0
	Park Row Bridge (M-6)		1500.0		1500.0		90.0		2300.0	9300.0		230.0		230.0	
West River	Douglas Ave. Bridge (WE-10)		230.0		430.0		70.0		390.0			40.0		390.0	
	Veazie St. Bridge (WE-12)		90.0		390.0		90.0		430.0			70.0		750.0	
	West River St. Bridge (WE-11)		150.0		90.0		150.0		90.0			40.0		930.0	
Woonasquatucket River	Manton Ave. Bridge (W-9)	40.0		90.0		230.0		150.0			90.0		70.0		<30.0
	Parking Bridge @ Olneyville (W-8D)	40.0		90.0		90.0		<30.0			40.0		90.0		40.0
	Delaine St (W-8C)	40.0		90.0		150.0		90.0			90.0		150.0		40.0
	Eagle St. Bridge (W-7C)	40.0	40.0	<30.0	230.0	90.0	90.0	<30.0	230.0		40.0	390.0	40.0	230.0	<30.0
	Eagle St. Bridge (W-7C) Duplicate	40.0		40.0		90.0		40.0			230.0		40.0		150.0
	Pleasant Valley Pkwy. (W-7B)	90.0		90.0		230.0		90.0			40.0		40.0		<30.0
	Kinsley St. @ Park St. (W-7A)	<30.0	<30.0	40.0	<30.0	230.0	40.0	90.0	<30.0		40.0	150.0	40.0	430.0	90.0
Providence River	Crawford St. (PR-12)	390.0	430.0	430.0	930.0	230.0	210.0	2300.0	230.0	2300.0	230.0	390.0	230.0	430.0	40.0
Pawtuxet River	Broad St. (PX-13)	40.0		<30.0		70.0		40.0			<30.0		<30.0		<30.0
	Broad St. (PX-13) Duplicate	<30.0		70.0		430.0		<30.0			40.0		90.0		<30.0
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there was a change in sampling staff. Both blanks were <30.0

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	2/15/2022	2/22/2022	2/23/2022	2/28/2022	3/1/2022	3/7/2022	3/8/2022	3/14/2022	3/15/2022	3/21/2022	3/23/2022	3/28/2022	3/29/2022	4/4/2022
Blackstone River	Whipple Bridge (BL-2)		90.0		<30.0		90.0		430.0		230.0		40.0		<30.0
	Roosevelt St. (BL-4)		<30.0		40.0		40.0		430.0		230.0		<30.0		40.0
	Central Ave. (BL-4C)		40.0				<30.0		430.0		90.0		40.0		70.0
	Slater Mill Dam (BL-3)		40.0		<30.0		40.0		430.0		90.0		70.0		<30.0
Seekonk River	River Dr. (SR-4A)			930.0		<30.0		1500.0		430.0		30.0		430.0	
Moshassuck River	Higginson Ave. Bridge (M-1)	40.0		90.0		90.0		<30.0		70.0		40.0		<30.0	
	Grotto Ave. Bridge (M-4C)	430.0		40.0		230.0		90.0		40.0		4300.0		430.0	
	Cemetery St. Bridge (M-4)	40.0		150.0		40.0		40.0		430.0		430.0		230.0	
	Stevens St. Bridge (M-5A)	90.0		230.0		90.0		<30.0		230.0		90.0		430.0	
	Footbridge @ Mill St. (M-5)	<30.0	90.0	430.0	430.0	230.0	230.0	150.0	930.0	90.0	430.0	1500.0	430.0	930.0	930.0
	Footbridge @ Mill St. (M-5) Duplicate	40.0	430.0	230.0	930.0	230.0	230.0	90.0	230.0	40.0	230.0	750.0	390.0	40.0	1500.0
	Park Row Bridge (M-6)	90.0		230.0		40.0		40.0		90.0		430.0		90.0	
West River	Douglas Ave. Bridge (WE-10)	90.0		40.0		90.0		40.0		40.0		<30.0		90.0	
	Veazie St. Bridge (WE-12)	90.0		<30.0		90.0		40.0		90.0		90.0		<30.0	
	West River St. Bridge (WE-11)	70.0		230.0		40.0		90.0		390.0		90.0		230.0	
Woonasquatucket River	Manton Ave. Bridge (W-9)		<30.0		<30.0		<30.0		40.0		230.0		<30.0		<30.0
	Parking Bridge @ Olneyville (W-8D)		<30.0		40.0		40.0		40.0		230.0		<30.0		40.0
	Delaine St (W-8C)		<30.0		<30.0		<30.0		40.0		930.0		<30.0		40.0
	Eagle St. Bridge (W-7C)	40.0	<30.0	40.0	40.0	<30.0	40.0	40.0	90.0	<30.0	390.0	230.0	90.0	40.0	90.0
	Eagle St. Bridge (W-7C) Duplicate		40.0		40.0		<30.0		90.0		930.0		<30.0		<30.0
	Pleasant Valley Pkwy. (W-7B)		<30.0		<30.0		<30.0		40.0		1500.0		40.0		40.0
	Kinsley St. @ Park St. (W-7A)	90.0	<30.0	70.0	40.0	<30.0	30.0	40.0	40.0	40.0	430.0	70.0	<30.0	40.0	<30.0
Providence River	Crawford St. (PR-12)	40.0	90.0	930.0	<30.0	<30.0	230.0	40.0	230.0	90.0	90.0	90.0	70.0	230.0	430.0
Pawtuxet River	Broad St. (PX-13)		40.0		90.0		<30.0		40.0		<30.0		<30.0		<30.0
	Broad St. (PX-13) Duplicate		<30.0		<30.0		<30.0		<30.0		90.0		40.0		<30.0
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

Table 38: River Fecal Coliform Data

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	4/5/2022	4/11/2022	4/12/2022	4/14/2022	4/18/2022	4/19/2022	4/25/2022	4/26/2022	5/2/2022	5/3/2022	5/9/2022	5/10/2022	5/12/2022	5/16/2022
Blackstone River	Whipple Bridge (BL-2)		70.0			40.0		30.0		<30.0		40.0			<30.0
	Roosevelt St. (BL-4)		30.0			90.0		<30.0		30.0		90.0			430.0
	Central Ave. (BL-4C)		90.0			<30.0		40.0		40.0		40.0			70.0
	Slater Mill Dam (BL-3)		90.0			40.0		90.0		90.0		90.0			150.0
Seekonk River	River Dr. (SR-4A)	<30.0		230.0			430.0		40.0		230.0		40.0		
Moshassuck River	Higginson Ave. Bridge (M-1)	90.0	<30.0	40.0	90.0		90.0		<30.0		90.0		150.0		
	Grotto Ave. Bridge (M-4C)	24000.0	24000.0	46000.0	930.0		430.0		90.0		2300.0		430.0		
	Cemetery St. Bridge (M-4)	9300.0	4300.0	24000.0	2300.0		1500.0		40.0		2300.0		230.0		
	Stevens St. Bridge (M-5A)	15000.0		24000.0	930.0		2300.0		150.0		3900.0		150.0		
	Footbridge @ Mill St. (M-5)	2300.0	9300.0	9300.0		40.0	4300.0	90.0	430.0	3900.0	2300.0	930.0	430.0	230.0	1500.0
	Footbridge @ Mill St. (M-5) Duplicate	15000.0	7500.0	9300.0		90.0	430.0	230.0	430.0	15000.0	4300.0	2300.0	430.0		230.0
	Park Row Bridge (M-6)	3900.0		9300.0			2300.0		230.0		4300.0		2300.0	9300.0	
West River	Douglas Ave. Bridge (WE-10)	230.0		90.0			930.0		40.0		90.0		150.0		
	Veazie St. Bridge (WE-12)	90.0		90.0			2300.0		40.0		200.0		430.0		
	West River St. Bridge (WE-11)	40.0		430.0			9300.0		430.0		430.0		390.0		
Woonasquatucket River	Manton Ave. Bridge (W-9)		40.0			150.0		230.0		90.0		90.0			230.0
	Parking Bridge @ Olneyville (W-8D)		90.0			<30.0		90.0		40.0		230.0			230.0
	Delaine St (W-8C)		90.0			40.0		210.0		90.0		90.0		750.0	150.0
	Eagle St. Bridge (W-7C)	<30.0	40.0	40.0		150.0	4300.0	70.0	90.0	230.0	200.0	430.0	2300.0	430.0	430.0
	Eagle St. Bridge (W-7C) Duplicate		70.0			430.0		90.0		90.0		430.0			90.0
	Pleasant Valley Pkwy. (W-7B)		90.0			40.0		40.0		230.0		930.0			1500.0
	Kinsley St. @ Park St. (W-7A)	90.0	90.0	230.0		40.0	2300.0	90.0	150.0	430.0	430.0	230.0	430.0	230.0	210.0
Providence River	Crawford St. (PR-12)	930.0	4300.0	9300.0	230.0	90.0	7500.0	90.0	430.0	230.0	750.0	430.0	2300.0	430.0	930.0
Pawtuxet River	Broad St. (PX-13)		40.0			90.0		40.0		40.0		40.0			90.0
	Broad St. (PX-13) Duplicate		40.0			40.0		40.0		150.0		40.0			70.0
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0*	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

Table 38: River Fecal Coliform Data

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	5/17/2022	5/23/2022	5/24/2022	5/31/2022	6/1/2022	6/6/2022	6/7/2022	6/13/2022	6/14/2022	6/20/2022	6/21/2022	6/23/2022	6/27/2022	6/28/2022
Blackstone River	Whipple Bridge (BL-2)		40.0		40.0		150.0		90.0		90.0			40.0	
	Roosevelt St. (BL-4)		930.0		70.0		40.0		930.0		430.0		230.0	70.0	
	Central Ave. (BL-4C)		90.0		930.0		90.0		2300.0		230.0		2300.0	230.0	
	Slater Mill Dam (BL-3)		230.0		90.0		430.0		46000.0		930.0		230.0	210.0	
Seekonk River	River Dr. (SR-4A)	15000.0		930.0		230.0		930.0		930.0		430.0			110000.0
Moshassuck River	Higginson Ave. Bridge (M-1)	90.0		<30.0		1500.0		230.0		430.0		2300.0			2300.0
	Grotto Ave. Bridge (M-4C)	930.0		46000.0		46000.0		2300.0		2300.0		930.0			4300.0
	Cemetery St. Bridge (M-4)	3900.0		4300.0		46000.0		750.0		1500.0		230.0			4300.0
	Stevens St. Bridge (M-5A)	930.0		4300.0		2300.0		230.0		930.0		750.0			9300.0
	Footbridge @ Mill St. (M-5)	9300.0	2300.0	230.0	4300.0	15000.0	1500.0	2300.0	24000.0	430.0	4300.0	2300.0		2300.0	9300.0
	Footbridge @ Mill St. (M-5) Duplicate	4300.0	2300.0	1500.0	24000.0	9300.0	930.0	430.0	4300.0	1500.0	430.0	1500.0		750.0	4300.0
	Park Row Bridge (M-6)	4300.0		930.0		9300.0		2300.0		4300.0		430.0			9300.0
West River	Douglas Ave. Bridge (WE-10)	70.0		430.0		930.0		150.0		430.0		430.0			4300.0
	Veazie St. Bridge (WE-12)	430.0		640.0		2300.0		2300.0		930.0		430.0			15000.0
	West River St. Bridge (WE-11)	930.0		430.0		2300.0		930.0		930.0		750.0			4300.0
Woonasquatucket River	Manton Ave. Bridge (W-9)		430.0		230.0		150.0		930.0		230.0			90.0	
	Parking Bridge @ Olneyville (W-8D)		430.0		430.0		430.0		4300.0		430.0			1500.0	
	Delaine St (W-8C)		430.0		430.0		9300.0		4300.0		430.0			930.0	
	Eagle St. Bridge (W-7C)	1500.0	430.0	430.0	430.0	430.0	430.0	430.0	15000.0	930.0	390.0	230.0		430.0	2300.0
	Eagle St. Bridge (W-7C) Duplicate		230.0		930.0		430.0		2300.0		430.0			430.0	
	Pleasant Valley Pkwy. (W-7B)		230.0		4300.0		930.0		46000.0		4300.0			430.0	
	Kinsley St. @ Park St. (W-7A)	4300.0	930.0	930.0	430.0	2300.0	430.0	930.0	24000.0	4300.0	750.0	2300.0		430.0	4300.0
Providence River	Crawford St. (PR-12)	15000.0	430.0	930.0	3900.0	4300.0	930.0	930.0	24000.0	9300.0	1500.0	2300.0		9300.0	9300.0
Pawtuxet River	Broad St. (PX-13)		230.0		430.0		40.0		15000.0		930.0			430.0	
	Broad St. (PX-13) Duplicate		90.0		150.0		150.0		9300.0		90.0			230.0	
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	7/5/2022	7/6/2022	7/11/2022	7/12/2022	7/18/2022	7/19/2022	7/25/2022	7/26/2022	8/1/2022	8/2/2022	8/9/2022	8/11/2022	8/15/2022	8/16/2022
Blackstone River	Whipple Bridge (BL-2)	<30.0		<30.0			230.0	90.0		90.0		230.0		90.0	
	Roosevelt St. (BL-4)	230.0		40.0			1500.0	230.0		150.0		430.0		430.0	
	Central Ave. (BL-4C)	230.0		230.0			4300.0	430.0		230.0		90.0		430.0	
	Slater Mill Dam (BL-3)	430.0		430.0			3900.0	230.0		430.0		230.0		430.0	
Seekonk River	River Dr. (SR-4A)		9300.0			>240000.0			46000.0		430.0		2300.0		930.0
Moshassuck River	Higginson Ave. Bridge (M-1)		930.0		230.0	430.0			430.0		230.0		930.0		750.0
	Grotto Ave. Bridge (M-4C)		4300.0		4300.0	2300.0			24000.0		930.0		2300.0		930.0
	Cemetery St. Bridge (M-4)		9300.0		430.0	4300.0			2100.0		430.0		15000.0		430.0
	Stevens St. Bridge (M-5A)		930.0		1200.0	4300.0			24000.0		2300.0		15000.0		430.0
	Footbridge @ Mill St. (M-5)	2300.0	930.0	430.0	930.0	2300.0	46000.0	930.0	9300.0	9300.0	430.0	230.0	9300.0	930.0	930.0
	Footbridge @ Mill St. (M-5) Duplicate	930.0	430.0	230.0	930.0	2300.0	24000.0	750.0	4300.0	2300.0	430.0	230.0	9300.0	430.0	1500.0
	Park Row Bridge (M-6)		430.0		2300.0	4300.0			9300.0		930.0		24000.0		930.0
West River	Douglas Ave. Bridge (WE-10)		430.0		430.0	2100.0			2300.0		930.0		230.0		230.0
	Veazie St. Bridge (WE-12)		930.0		750.0	930.0			2300.0		430.0		2300.0		2300.0
	West River St. Bridge (WE-11)		930.0		430.0	1500.0			15000.0		2300.0		4300.0		230.0
Woonasquatucket River	Manton Ave. Bridge (W-9)	430.0		90.0			90.0	230.0		430.0		<30.0		40.0	
	Parking Bridge @ Olneyville (W-8D)	430.0		230.0			2300.0	430.0		430.0		430.0		2300.0	
	Delaine St (W-8C)	230.0		430.0			430.0	4300.0		2300.0		430.0		930.0	
	Eagle St. Bridge (W-7C)	1500.0	2300.0	750.0	430.0	1500.0	9300.0	930.0	46000.0	4300.0	2300.0	2300.0	9300.0	430.0	430.0
	Eagle St. Bridge (W-7C) Duplicate	930.0		750.0			2300.0	430.0		9300.0		930.0		430.0	
	Pleasant Valley Pkwy. (W-7B)	230.0		750.0			2300.0	7500.0		4300.0		1500.0		230.0	
	Kinsley St. @ Park St. (W-7A)	1500.0	2300.0	4300.0	9300.0	4300.0	46000.0	4300.0	110000.0	24000.0	4300.0	430.0		430.0	4300.0
Providence River	Crawford St. (PR-12)	930.0	4300.0	9300.0	2300.0	4300.0	46000.0	930.0	110000.0	2100.0	4300.0	430.0	4300.0	430.0	430.0
Pawtuxet River	Broad St. (PX-13)	230.0		430.0			430.0	90.0		230.0		150.0		90.0	
	Broad St. (PX-13) Duplicate	230.0		40.0			430.0	230.0		430.0		200.0		90.0	
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	8/18/2022	8/22/2022	8/23/2022	8/29/2022	8/30/2022	9/6/2022	9/8/2022	9/12/2022	9/13/2022	9/19/2022	9/20/2022	9/26/2022	9/27/2022	10/3/2022
Blackstone River	Whipple Bridge (BL-2)		90.0		430.0		2300.0		230.0		40.0		30.0		40.0
	Roosevelt St. (BL-4)		230.0		430.0		4300.0		230.0		70.0		90.0		40.0
	Central Ave. (BL-4C)		40.0		230.0		4300.0		230.0		230.0		230.0		40.0
	Slater Mill Dam (BL-3)		90.0		930.0		9300.0		230.0		70.0		430.0		30.0
Seekonk River	River Dr. (SR-4A)			>240000.0		430.0		930.0		>240000.0		280.0		1500.0	
Moshassuck River	Higginson Ave. Bridge (M-1)			1500.0		230.0		1500.0		430.0		430.0		750.0	
	Grotto Ave. Bridge (M-4C)			4300.0		1500.0		930.0		2300.0		9300.0		4300.0	
	Cemetery St. Bridge (M-4)			46000.0		2300.0		4300.0		930.0		430.0		1500.0	
	Stevens St. Bridge (M-5A)	430.0		24000.0		2300.0		24000.0		24000.0		230.0		2300.0	
	Footbridge @ Mill St. (M-5)	430.0	930.0	46000.0	1500.0	1500.0	9300.0	15000.0	110000.0	4300.0	4300.0	930.0	2300.0	2300.0	930.0
	Footbridge @ Mill St. (M-5) Duplicate		230.0	9300.0	750.0	430.0	24000.0	9300.0	9300.0	15000.0	1500.0	930.0	930.0	430.0	230.0
	Park Row Bridge (M-6)			46000.0		2300.0		4300.0		24000.0		2300.0		1500.0	
West River	Douglas Ave. Bridge (WE-10)	150.0		2300.0		2300.0		2300.0		930.0		150.0		150.0	
	Veazie St. Bridge (WE-12)	430.0		2300.0		2300.0		1500.0		90.0	230.0	230.0		430.0	
	West River St. Bridge (WE-11)			46000.0		930.0		46000.0		46000.0	24000.0	390.0		430.0	
Woonasquatucket River	Manton Ave. Bridge (W-9)	150.0	4300.0		230.0		9300.0		230.0		30.0		90.0		210.0
	Parking Bridge @ Olneyville (W-8D)	430.0	210.0		1500.0		15000.0		1500.0		2100.0		930.0		90.0
	Delaine St (W-8C)		4300.0		930.0		24000.0		930.0		930.0		430.0		230.0
	Eagle St. Bridge (W-7C)	230.0	1500.0	4300.0	930.0	430.0	9300.0	430.0	1500.0	9300.0	230.0	430.0	390.0	430.0	230.0
	Eagle St. Bridge (W-7C) Duplicate		750.0		930.0		46000.0		1500.0		150.0		230.0		230.0
	Pleasant Valley Pkwy. (W-7B)		930.0		7500.0		15000.0		3900.0		750.0		2300.0		430.0
	Kinsley St. @ Park St. (W-7A)	430.0	9300.0	9300.0	430.0	2300.0	46000.0	9300.0	46000.0	930.0	430.0	2300.0	3900.0	430.0	930.0
Providence River	Crawford St. (PR-12)	750.0	430.0	24000.0	930.0	430.0	15000.0	15000.0	24000.0	9300.0	930.0	930.0	4300.0	430.0	750.0
Pawtuxet River	Broad St. (PX-13)		40.0		<30.0		21000.0		750.0		90.0		430.0		140.0
	Broad St. (PX-13) Duplicate		90.0		90.0		15000.0		230.0		90.0		390.0		<30.0
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	10/4/2022	10/11/2022	10/12/2022	10/17/2022	10/18/2022	10/24/2022	10/25/2022	10/31/2022	11/1/2022	11/3/2022	11/7/2022	11/8/2022	11/14/2022
Blackstone River	Whipple Bridge (BL-2)		40.0		<30.0		40.0		40.0			<30.0		<30.0
	Roosevelt St. (BL-4)		90.0		40.0		<30.0		<30.0			40.0		40.0
	Central Ave. (BL-4C)		40.0		90.0		90.0		40.0			40.0		90.0
	Slater Mill Dam (BL-3)		90.0		<30.0		40.0		40.0			<30.0		<30.0
Seekonk River	River Dr. (SR-4A)	2100.0		<30.0		4300.0		4300.0		1500.0	90.0		90.0	
Moshassuck River	Higginson Ave. Bridge (M-1)	90.0		150.0		150.0		230.0		90.0	210.0		40.0	
	Grotto Ave. Bridge (M-4C)	750.0		430.0		1500.0		930.0		2300.0	110000.0		930.0	
	Cemetery St. Bridge (M-4)	930.0		750.0		4300.0		2300.0		930.0	2300.0		2300.0	
	Stevens St. Bridge (M-5A)	430.0		930.0		2300.0		1500.0		930.0			930.0	
	Footbridge @ Mill St. (M-5)	390.0	40.0	230.0	430.0	2300.0	430.0	430.0	2300.0	430.0		230.0	430.0	430.0
	Footbridge @ Mill St. (M-5) Duplicate	430.0	930.0	150.0	930.0	2300.0	430.0	4300.0	4300.0	390.0		430.0	930.0	430.0
	Park Row Bridge (M-6)	930.0		230.0		3900.0		2300.0		930.0			430.0	
West River	Douglas Ave. Bridge (WE-10)	90.0		230.0		1500.0		430.0		390.0			40.0	
	Veazie St. Bridge (WE-12)	70.0		430.0		4300.0		150.0		150.0			930.0	
	West River St. Bridge (WE-11)	430.0		230.0		930.0		2100.0		430.0			930.0	
Woonasquatucket River	Manton Ave. Bridge (W-9)		90.0		40.0		40.0		40.0			90.0		40.0
	Parking Bridge @ Olneyville (W-8D)		230.0		230.0		430.0		40.0			930.0		90.0
	Delaine St (W-8C)		430.0		40.0		90.0		<30.0			9300.0		430.0
	Eagle St. Bridge (W-7C)	1500.0	40.0	140.0	90.0	430.0	30.0	230.0	40.0	90.0		110.0	40.0	150.0
	Eagle St. Bridge (W-7C) Duplicate		40.0		90.0		90.0		40.0			90.0		90.0
	Pleasant Valley Pkwy. (W-7B)		230.0		230.0		430.0		90.0			90.0		150.0
	Kinsley St. @ Park St. (W-7A)	430.0	930.0	750.0	930.0	930.0	930.0	930.0	<30.0	430.0		230.0	90.0	40.0
Providence River	Crawford St. (PR-12)	2300.0	930.0	230.0	1500.0	930.0	750.0	1500.0	930.0	930.0		230.0	430.0	430.0
Pawtuxet River	Broad St. (PX-13)		40.0		90.0		40.0		40.0			<30.0		40.0
	Broad St. (PX-13) Duplicate		90.0		90.0		40.0		<30.0			40.0		230.0
Field Blank		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

*Two blanks were taken on 5/10/2022 because there w

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	11/10/2022	11/15/2022	11/21/2022	11/22/2022	11/25/2022	11/28/2022	11/29/2022	12/5/2022	12/6/2022	12/12/2022	12/13/2022	12/19/2022	12/20/2022
Blackstone River	Whipple Bridge (BL-2)			40.0			750.0		40.0		40.0		230.0	
	Roosevelt St. (BL-4)			90.0			90.0		40.0		40.0		230.0	
	Central Ave. (BL-4C)			<30.0			230.0		90.0		70.0		430.0	
	Slater Mill Dam (BL-3)			40.0			230.0		40.0		110.0		150.0	
Seekonk River	River Dr. (SR-4A)		930.0		230.0			930.0		230.0				24000.0
Moshassuck River	Higginson Ave. Bridge (M-1)		<30.0		90.0			430.0		90.0		40.0		40.0
	Grotto Ave. Bridge (M-4C)		230.0		930.0			430.0		2300.0		430.0		150.0
	Cemetery St. Bridge (M-4)		210.0		430.0			930.0		430.0		40.0		90.0
	Stevens St. Bridge (M-5A)		150.0		230.0	430.0		930.0		40.0		90.0		40.0
	Footbridge @ Mill St. (M-5)		430.0	1500.0	1500.0	930.0	930.0	90.0	390.0	930.0	2300.0	230.0	230.0	40.0
	Footbridge @ Mill St. (M-5) Duplicate		230.0	2300.0	430.0		430.0	210.0	90.0	230.0	930.0	230.0	230.0	40.0
	Park Row Bridge (M-6)		150.0		2300.0	4300.0		230.0		230.0		750.0		230.0
West River	Douglas Ave. Bridge (WE-10)		150.0		430.0			90.0		<30.0		<30.0		<30.0
	Veazie St. Bridge (WE-12)		430.0		90.0			930.0		<30.0		90.0		70.0
	West River St. Bridge (WE-11)		90.0		90.0			230.0		40.0		90.0		<30.0
Woonasquatucket River	Manton Ave. Bridge (W-9)			40.0			930.0		40.0		40.0		40.0	
	Parking Bridge @ Olneyville (W-8D)			90.0			430.0		90.0		90.0		<30.0	
	Delaine St (W-8C)			40.0			210.0		150.0		<30.0		150.0	
	Eagle St. Bridge (W-7C)		230.0	40.0	<30.0		430.0	40.0	40.0	430.0	230.0	<30.0	40.0	230.0
	Eagle St. Bridge (W-7C) Duplicate			90.0			230.0		90.0		40.0		40.0	
	Pleasant Valley Pkwy. (W-7B)			40.0			430.0		150.0		90.0		430.0	
	Kinsley St. @ Park St. (W-7A)		90.0	230.0	40.0		430.0	90.0	90.0	<30.0	40.0	<30.0	930.0	40.0
Providence River	Crawford St. (PR-12)		230.0	430.0	2300.0	230.0	930.0	2300.0	150.0	230.0	90.0	110.0	230.0	70.0
Pawtuxet River	Broad St. (PX-13)			<30.0			230.0		40.0					
	Broad St. (PX-13) Duplicate			<30.0			430.0		430.0		40.0		150.0	
Field Blank			<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0		<30.0	

*Two blanks were taken on 5/10/2022 because there w

River Fecal Coliform Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

River	Site	12/22/2022	12/27/2022	12/28/2022
Blackstone River	Whipple Bridge (BL-2)		90.0	
	Roosevelt St. (BL-4)		210.0	
	Central Ave. (BL-4C)		90.0	
	Slater Mill Dam (BL-3)		150.0	
Seekonk River	River Dr. (SR-4A)	430.0		4300.0
Moshassuck River	Higginson Ave. Bridge (M-1)			90.0
	Grotto Ave. Bridge (M-4C)			1500.0
	Cemetery St. Bridge (M-4)			2300.0
	Stevens St. Bridge (M-5A)			430.0
	Footbridge @ Mill St. (M-5)		90.0	430.0
	Footbridge @ Mill St. (M-5) Duplicate		230.0	430.0
	Park Row Bridge (M-6)			40.0
West River	Douglas Ave. Bridge (WE-10)			40.0
	Veazie St. Bridge (WE-12)			90.0
	West River St. Bridge (WE-11)			150.0
Woonasquatucket River	Manton Ave. Bridge (W-9)		230.0	
	Parking Bridge @ Olneyville (W-8D)		90.0	
	Delaine St (W-8C)		90.0	
	Eagle St. Bridge (W-7C)		430.0	40.0
	Eagle St. Bridge (W-7C) Duplicate		<30.0	
	Pleasant Valley Pkwy. (W-7B)		150.0	
	Kinsley St. @ Park St. (W-7A)		230.0	150.0
Providence River	Crawford St. (PR-12)		150.0	230.0
Pawtuxet River	Broad St. (PX-13)			
	Broad St. (PX-13) Duplicate		<30.0	
Field Blank			<30.0	

*Two blanks were taken on 5/10/2022 because there w

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	1/3/2022	1/4/2022	1/10/2022	1/11/2022	1/18/2022	1/19/2022	1/24/2022	1/25/2022	1/31/2022	2/1/2022
Blackstone River	**Whipple Bridge (BL-2)**	275.5		52.0		191.8		65.7		30.5	
	Slater Mill Dam, West Bank (BL-3)	46.5		52.0		228.2		21.6		13.4	
Moshassuck River	**Higginson Ave. (M-1)**		120.1		42.0		344.8		32.3		31.3
	Footbridge at Mill St. (M-5)		410.6		248.9		816.4		161.6		186.0
	Footbridge at Mill St. (M-5) Duplicate		198.9		179.3		1119.9		240.0		218.7
	Park Row Bridge (M-6)		1299.7		307.6		178.2		238.2		206.4
West River	**Douglas Ave. Bridge (WE-10)**		31.5		9.7		58.3		83.9		13.4
	West River St. Bridge (WE-11)		68.3		28.8		77.6		53.0		17.9
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	54.6		156.5		275.5		52.8		410.6	
	Eagle St. Bridge (W-7C)	39.9		64.4		178.5		8.4		27.5	
	Eagle St. Bridge (W-7C) Duplicate	32.7		68.3		228.2		23.3		41.7	
	Kinsley St. at Park St. (W-7A)	435.2		85.5		206.4		17.1		37.3	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	2/7/2022	2/8/2022	2/14/2022	2/15/2022	2/22/2022	2/23/2022	2/28/2022	3/1/2022	3/7/2022	3/8/2022
Blackstone River	**Whipple Bridge (BL-2)**	206.4		60.9		73.8		39.9		40.8	
	Slater Mill Dam, West Bank (BL-3)	135.4		39.9		32.7		17.3		15.6	
Moshassuck River	**Higginson Ave. (M-1)**		410.6		91.0		118.7		10.8		30.9
	Footbridge at Mill St. (M-5)		866.4		41.7		110.6		35.0		73.3
	Footbridge at Mill St. (M-5) Duplicate		1119.9		48.0		122.3		26.9		58.3
	Park Row Bridge (M-6)		1203.3		65.1		133.4		20.1		75.4
West River	**Douglas Ave. Bridge (WE-10)**		613.1		21.1		45.7		15.8		26.2
	West River St. Bridge (WE-11)		980.4		62.0		98.4		14.8		35.5
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	166.4		15.6		22.6		11.0		14.8	
	Eagle St. Bridge (W-7C)	83.6		31.5		20.3		12.1		6.3	
	Eagle St. Bridge (W-7C) Duplicate	122.3		18.5		25.6		7.5		13.4	
	Kinsley St. at Park St. (W-7A)	88.9		51.2		23.3		9.7		16.9	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	3/14/2022	3/15/2022	3/21/2022	3/23/2022	3/28/2022	3/29/2022	4/4/2022	4/5/2022	4/11/2022	4/12/2022
Blackstone River	**Whipple Bridge (BL-2)**	231.0		9.8		35.0		10.9		29.5	
	Slater Mill Dam, West Bank (BL-3)	107.6		12.1		19.9		7.4		18.5	
Moshassuck River	**Higginson Ave. (M-1)**		14.5		16.1		51.2		43.5	29.2	10.8
	Footbridge at Mill St. (M-5)		30.5		21.3		63.1		45.0		461.1
	Footbridge at Mill St. (M-5) Duplicate		45.0		17.5		41.0		77.1		235.9
	Park Row Bridge (M-6)		25.9		27.9		86.0		88.4		547.5
West River	**Douglas Ave. Bridge (WE-10)**		13.1		6.3		3.1		9.8		45.0
	West River St. Bridge (WE-11)		43.5		83.9		19.5		32.4		79.8
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	16.8		488.4		36.8		15.5		14.4	
	Eagle St. Bridge (W-7C)	12.2		816.4		23.1		23.8		9.8	
	Eagle St. Bridge (W-7C) Duplicate	25.9		866.4		35.5		25.3		20.3	
	Kinsley St. at Park St. (W-7A)	21.1		770.1		19.7		18.3		22.6	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	4/18/2022	4/19/2022	4/25/2022	4/26/2022	5/2/2022	5/3/2022	5/9/2022	5/10/2022	5/16/2022	5/17/2022
Blackstone River	**Whipple Bridge (BL-2)**	12.1		4.1		2.0		8.6		29.2	
	Slater Mill Dam, West Bank (BL-3)	13.1		3.0		9.7		8.6		15.6	
Moshassuck River	**Higginson Ave. (M-1)**		387.3		14.8		29.2		161.6		125.9
	Footbridge at Mill St. (M-5)		2419.6		63.3		328.2		79.8		547.5
	Footbridge at Mill St. (M-5) Duplicate		2419.6		51.2		387.3		108.1		770.1
	Park Row Bridge (M-6)		2419.6		48.7		435.2		157.6		727.0
West River	**Douglas Ave. Bridge (WE-10)**		1413.6		30.5		172.3		32.3		325.5
	West River St. Bridge (WE-11)		>2419.6		50.4		387.3		78.4		686.7
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	57.3		12.1		46.4		36.4		47.3	
	Eagle St. Bridge (W-7C)	69.5		21.6		38.9		77.6		70.6	
	Eagle St. Bridge (W-7C) Duplicate	101.4		23.8		30.9		88.2		81.6	
	Kinsley St. at Park St. (W-7A)	37.3		24.6		50.4		129.1		86.2	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	5/23/2022	5/24/2022	5/31/2022	6/1/2022	6/6/2022	6/7/2022	6/13/2022	6/14/2022	6/20/2022	6/21/2022
Blackstone River	**Whipple Bridge (BL-2)**	14.6		90.8		35.5		290.9		88.2	
	Slater Mill Dam, West Bank (BL-3)	39.9		70.8		59.4		>2419.6		70.8	
Moshassuck River	**Higginson Ave. (M-1)**		328.2		980.4		488.4		196.8		980.4
	Footbridge at Mill St. (M-5)		191.8		547.5		344.8		1046.2		325.5
	Footbridge at Mill St. (M-5) Duplicate		248.9		648.8		435.2		727.0		365.4
	Park Row Bridge (M-6)		238.2		1203.3		387.3		1732.9		461.1
West River	**Douglas Ave. Bridge (WE-10)**		224.7		579.4		167.0		193.5		387.3
	West River St. Bridge (WE-11)		770.1		980.4		866.4		579.4		613.1
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	73.3		198.9		153.9		980.4		93.3	
	Eagle St. Bridge (W-7C)	107.1		218.7		191.8		>2419.6		196.8	
	Eagle St. Bridge (W-7C) Duplicate	142.1		261.3		166.4		>2419.6		196.8	
	Kinsley St. at Park St. (W-7A)	156.5		365.4		125.9		>2419.6		517.2	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	6/27/2022	6/28/2022	7/5/2022	7/6/2022	7/11/2022	7/12/2022	7/18/2022	7/19/2022	7/25/2022	7/26/2022
Blackstone River	**Whipple Bridge (BL-2)**	18.7		18.7		4.1			65.7	21.1	
	Slater Mill Dam, West Bank (BL-3)	39.3		53.8		17.5			290.9	31.8	
Moshassuck River	**Higginson Ave. (M-1)**		866.4		114.6		275.5	613.1			107.6
	Footbridge at Mill St. (M-5)		>2419.6		261.3		142.1	1553.1			>2419.6
	Footbridge at Mill St. (M-5) Duplicate		>2419.6		193.5		122.3	1119.9			>2419.6
	Park Row Bridge (M-6)		>2419.6		307.6		146.7	920.8			>2419.6
West River	**Douglas Ave. Bridge (WE-10)**		>2419.6		206.4		187.2	461.1			1203.3
	West River St. Bridge (WE-11)		>2419.6		328.2		201.4	461.1			>2419.6
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	158.5		30.7		46.5			90.8	61.6	
	Eagle St. Bridge (W-7C)	517.2		218.7		235.9			920.8	131.4	
	Eagle St. Bridge (W-7C) Duplicate	410.6		143.9		307.6			816.4	137.6	
	Kinsley St. at Park St. (W-7A)	344.8		167.0		290.9			1553.1	579.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	8/1/2022	8/2/2022	8/9/2022	8/11/2022	8/15/2022	8/16/2022	8/22/2022	8/23/2022	8/29/2022	8/30/2022
Blackstone River	**Whipple Bridge (BL-2)**	32.3		63.1		17.3		56.1		20.6	
	Slater Mill Dam, West Bank (BL-3)	98.4		39.9		82.0		88.8		63.3	
Moshassuck River	**Higginson Ave. (M-1)**		142.1		365.4		260.3		435.2		141.4
	Footbridge at Mill St. (M-5)		117.8		344.8		90.8		>2419.6		365.4
	Footbridge at Mill St. (M-5) Duplicate		160.7		218.7		98.8		>2419.6		344.8
	Park Row Bridge (M-6)		260.3		517.2		101.9		>2419.6		166.4
West River	**Douglas Ave. Bridge (WE-10)**		344.8		260.3		206.4		1046.2		151.5
	West River St. Bridge (WE-11)		150.0		517.2		186.0		>2419.6		365.4
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	204.6		93.3		40.4		1732.9		88.2	
	Eagle St. Bridge (W-7C)	214.3		88.4		151.5		135.4		146.7	
	Eagle St. Bridge (W-7C) Duplicate			127.4		79.4		135.4		191.8	
	Kinsley St. at Park St. (W-7A)	1299.7		248.1		1986.3		387.3		365.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	9/6/2022	9/8/2022	9/12/2022	9/13/2022	9/19/2022	9/20/2022	9/26/2022	9/27/2022	10/3/2022
Blackstone River	**Whipple Bridge (BL-2)**	1986.3		27.9		17.5		31.3		6.3
	Slater Mill Dam, West Bank (BL-3)	>2419.6		75.9		18.7		206.4		13.4
Moshassuck River	**Higginson Ave. (M-1)**		488.4		98.4		410.6		131.7	
	Footbridge at Mill St. (M-5)		1119.9		249.5		178.0		235.9	
	Footbridge at Mill St. (M-5) Duplicate		816.4		238.2		148.3		365.4	
	Park Row Bridge (M-6)		547.5		172.6		118.7		201.4	
West River	**Douglas Ave. Bridge (WE-10)**		686.7		186.0		125.9		146.7	
	West River St. Bridge (WE-11)		770.1		461.1		184.2		313.0	
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	>2419.6		50.4		32.4		70.0		27.2
	Eagle St. Bridge (W-7C)	>2419.6		198.9		93.3		344.1		38.3
	Eagle St. Bridge (W-7C) Duplicate	>2419.6		209.8		82.3		290.9		65.7
	Kinsley St. at Park St. (W-7A)	>2419.6		1732.9		95.9		1553.1		113.7
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	10/4/2022	10/11/2022	10/12/2022	10/17/2022	10/18/2022	10/24/2022	10/25/2022	10/31/2022	11/1/2022
Blackstone River	**Whipple Bridge (BL-2)**		1.0		14.5		12.2		6.3	
	Slater Mill Dam, West Bank (BL-3)		7.5		25.0		15.5		13.2	
Moshassuck River	**Higginson Ave. (M-1)**	59.4		86.0		98.8		214.2		63.3
	Footbridge at Mill St. (M-5)	98.8		113.7		1413.6		727.0		344.8
	Footbridge at Mill St. (M-5) Duplicate	95.9		104.6		1986.3		579.4		387.3
	Park Row Bridge (M-6)	131.7		117.8		1299.7		980.4		285.1
West River	**Douglas Ave. Bridge (WE-10)**	58.1		65.0		727.0		61.3		139.6
	West River St. Bridge (WE-11)	172.3		307.6		980.4		344.1		148.3
Woonasquatucket River	**Manton Ave. Bridge (W-9)**		17.1		54.8		39.9		20.4	
	Eagle St. Bridge (W-7C)		31.8		90.6		72.3		45.7	
	Eagle St. Bridge (W-7C) Duplicate		29.2		65.0		38.4		24.3	
	Kinsley St. at Park St. (W-7A)		72.3		83.3		410.6		30.9	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	11/7/2022	11/8/2022	11/14/2022	11/15/2022	11/21/2022	11/22/2022	11/28/2022	11/29/2022	12/5/2022
Blackstone River	**Whipple Bridge (BL-2)**	21.6		36.8		11.0		222.4		48.8
	Slater Mill Dam, West Bank (BL-3)	11.8		40.2		20.3		151.5		77.1
Moshassuck River	**Higginson Ave. (M-1)**		98.5		32.3		28.8		48.7	
	Footbridge at Mill St. (M-5)		111.2		127.4		152.9		114.5	
	Footbridge at Mill St. (M-5) Duplicate		151.5				103.9		152.9	
	Park Row Bridge (M-6)		210.5		172.5		72.8		82.3	
West River	**Douglas Ave. Bridge (WE-10)**		24.5		60.5		13.5		81.3	
	West River St. Bridge (WE-11)		114.5		65.0		63.1		101.7	
Woonasquatucket River	**Manton Ave. Bridge (W-9)**	22.8		42.8		33.6		365.4		35.5
	Eagle St. Bridge (W-7C)	42.6		104.6		32.3		344.8		59.4
	Eagle St. Bridge (W-7C) Duplicate	81.6		59.1		22.6		161.6		26.2
	Kinsley St. at Park St. (W-7A)	111.9		50.4		34.5		285.1		37.3
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

River Enterococci Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	12/6/2022	12/12/2022	12/13/2022	12/19/2022	12/20/2022	12/27/2022	12/28/2022
Blackstone River	**Whipple Bridge (BL-2)**		29.2		248.1		145.0	
	Slater Mill Dam, West Bank (BL-3)		30.5		344.8		185.0	
Moshassuck River	**Higginson Ave. (M-1)**	49.5		13.5		50.4		162.4
	Footbridge at Mill St. (M-5)	67.7		23.8		191.8		209.8
	Footbridge at Mill St. (M-5) Duplicate	60.5		30.1		275.5		204.6
	Park Row Bridge (M-6)	48.0		44.8		280.9		166.4
West River	**Douglas Ave. Bridge (WE-10)**	48.8		38.4		488.4		68.3
	West River St. Bridge (WE-11)	52.0		67.0		365.4		108.1
Woonasquatucket River	**Manton Ave. Bridge (W-9)**		130.1		117.8		75.4	
	Eagle St. Bridge (W-7C)		88.4		55.6		69.1	
	Eagle St. Bridge (W-7C) Duplicate		48.0		44.3		70.3	
	Kinsley St. at Park St. (W-7A)		36.4		55.6		65.7	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 39: River Enterococci Data

Bay Fecal Coliform Data 2022

(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	1/6/2022	2/2/2022	2/17/2022	3/2/2022	3/16/2022	4/13/2022	4/27/2022	5/12/2022	5/25/2022	6/7/2022	6/22/2022	6/23/2022[1]	7/6/2022	7/20/2022	8/3/2022	8/31/2022	9/14/2022	9/28/2022	10/12/2022	10/27/2022	11/9/2022[2]	11/23/2022
Seekonk River	**Division St. Dock**			43.0	23.0	39.0	93.0	93.0	43.0	150.0	930.0	430.0	930.0	430.0	4300.0	93.0	9300.0	930.0	43.0	430.0	43.0		23.0
	Bishop Point	150.0		21.0	43.0	930.0	93.0	15.0	93.0	150.0	230.0	430.0	430.0	1500.0	430.0	43.0	4300.0	230.0	230.0	750.0	43.0		23.0
	Off BP Outfall	1500.0		93.0	23.0	430.0	23.0	93.0	43.0	93.0	23.0	150.0	20.0	430.0	230.0	9.0	4300.0	1500.0	75.0	210.0	150.0		43.0
	Phillipsdale Landing	2300.0		150.0	23.0	150.0	43.0	43.0	23.0	93.0	43.0	230.0	43.0	430.0	150.0	9.0	430.0	4300.0	230.0	2300.0	150.0		240.0
	Phillipsdale Landing Duplicate	750.0		93.0	43.0	230.0	43.0	43.0	43.0	150.0	23.0	93.0		230.0	43.0	23.0	230.0	2300.0	93.0	430.0	230.0		240.0
	Narragansett Boating Center	2300.0		93.0	43.0	150.0	9.0	93.0	43.0	93.0	43.0	150.0	23.0	43.0	930.0	93.0	930.0	430.0	93.0	28.0	230.0		240.0
	Crook Point	430.0	11.0	43.0	93.0	93.0	93.0	430.0	43.0	93.0	23.0	210.0	93.0	15000.0	230.0	43.0	23.0	2100.0	230.0	750.0	230.0		93.0
Providence River	**India Point Park**	430.0	43.0	75.0	43.0	15.0	23.0	75.0	7.0	23.0	23.0	930.0		23.0	93.0	9.0	75.0	930.0	210.0	430.0	150.0	4.0	93.0
	Point St Bridge	750.0	43.0	150.0	93.0	430.0	230.0	430.0	390.0	430.0	430.0	430.0		210.0	930.0	430.0	2300.0	4300.0	930.0	24000.0	430.0	93.0	43.0
	Collier Pt Park	430.0	43.0	43.0	43.0	43.0	93.0	93.0	43.0	43.0	9.0	43.0		93.0	43.0	23.0	93.0	4300.0	230.0	4300.0	230.0	23.0	93.0
	Off FP Outfall	430.0	23.0	23.0	15.0	43.0	43.0	23.0	23.0	7.0	<3.0	4.0		4.0	230.0	4.0	43.0	230.0	93.0	230.0	43.0	43.0	9.0
	South FP East	230.0	23.0	4.0	7.0	4.0	<3.0	43.0	<3.0	9.0	<3.0	<3.0		4.0	93.0	15.0	7.0	1500.0	9.0	93.0	230.0	<3.0	23.0
	Save the Bay	23.0	4.0	9.0	4.0	7.0	3.0	<3.0	<3.0		4.0	9.0		4.0	230.0	4.0	<3.0	430.0	93.0	43.0	43.0	3.0	4.0
	Edgewood Yacht Club	43.0	4.0	9.0	4.0	23.0	93.0	<3.0	<3.0	15.0	4.0	<3.0		11.0	93.0	4.0	9.0	93.0	93.0	230.0	430.0	9.0	9.0
	Pawt/Prov Junction	150.0	15.0	15.0	9.0	3.0	23.0	15.0	4.0	23.0	93.0	93.0		93.0	43.0	7.0	4.0	930.0	21.0	9.0	43.0	<3.0	43.0
	Gaspee Pt	43.0	23.0	4.0		9.0	9.0	<3.0	<3.0	4.0	9.0	<3.0		4.0	43.0	4.0	9.0	43.0	<3.0	15.0	43.0	15.0	9.0
	Bullock Neck	43.0	9.0	43.0	43.0	9.0	<3.0	7.0	9.0	3.0	<3.0	9.0		<3.0	9.0	4.0	<3.0	23.0	<3.0	43.0	93.0	<3.0	<3.0
	Bullocks Reach Buoy	9.0	<3.0	9.0	9.0	9.0	4.0	15.0	<3.0	43.0	4.0	<3.0		4.0	43.0	<3.0	<3.0	9.0	4.0	43.0	43.0	<3.0	9.0
	Shawomet	15.0	4.0	4.0	9.0	9.0	9.0	9.0	<3.0	9.0	43.0	<3.0		9.0	23.0	4.0	<3.0	23.0	<3.0	23.0	9.0	<3.0	4.0
	North of Nayatt Point	9.0	<3.0	<3.0	7.0	<3.0	23.0	9.0	<3.0	<3.0	<3.0	<3.0		<3.0	4.0	<3.0	<3.0	23.0	<3.0	15.0	43.0	<3.0	<3.0
	Conimicut Pt	23.0	4.0	4.0	4.0	4.0	9.0	9.0	<3.0	<3.0	<3.0	<3.0		<3.0	23.0	4.0	<3.0	9.0	4.0	9.0	7.0	<3.0	<3.0
	Conimicut Point Duplicate	4.0	<3.0	7.0	4.0	9.0	23.0	4.0	<3.0	4.0	<3.0	<3.0		<3.0	43.0	<3.0	<3.0	9.0	<3.0	4.0	9.0	4.0	4.0
	Bay Fecal Coliform Blank	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Rain Data* (inches)	Rain total - day of sampling (in time prior to sampling)	0	0	0	0.02	0	0	0.04	T	0	T	0.02	0	T	0	0	0.22	0	0	0	0	0	0
	Rain total - 1 day prior to sampling	0	0	0	0.1	0	0.06	0.07	0	T	0	0	0.02	T	T	0	0	0.34	0	0	0.27	0	0
	Rain total - 2 days prior to sampling	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17	0.11	0	0.33	0.12	0	0.81	0	0
	Rain total - 3 days prior to sampling	0	0	0.07	0	0	0	T	0	0	0	0.14	0	0	T	0	0	0.01	0.18	0	0.84	0	0
	Rain total - 4 days prior to sampling	0.35	0.38	0.34	0	0.51	0.03	T	T	0.01	0.55	0	0.14	0.24	T	T	0	0	0	0.1	0.07	0	0
	Rain total - 5 days prior to sampling	0.01	0.04	0	1.04	0	0.79	0	0.02	0.13	T	0.23	0	0	0	0.02	0.05	0	0	0	0	0	0
	Total Rainfall	**0.36**	**0.42**	**0.41**	**1.16**	**0.51**	**0.88**	**0.11**	**0.02**	**0.14**	**0.55**	**0.39**	**0.16**	**0.24**	**0.17**	**0.13**	**0.27**	**0.68**	**0.3**	**0.1**	**1.99**	**0**	**0**
Tides**	High Tide	10:47	8:45	8:18	7:38	7:33	6:06	6:17	5:18	4:47	2:01	3:20	4:14	1:31	1:59	12:16	11:33	11:43	10:19	10:25	9:49	8:16	7:00
	Low Tide	3:24	1:26	14:00	12:55	13:12	11:54	11:32	11:09	10:10	7:42	8:31	9:24	6:55	6:53	5:37	4:30	4:17	3:21	3:02	2:36	13:33	12:42

[1] Extra sampling due to high bacteria measurements the day prior and DWO

[2] Seekonk skipped due to Bullock Reach Sonde Swap

*Rain data are from TF Green

**Tide data are from USHarbors.com

Table 40: Bay Fecal Coliform Data

Bay Enterococci Data 2022
(MPN/100 mL or Most Probable Number/100 mL)

	Station Name	1/6/2022	2/2/2022	2/17/2022	3/2/2022	3/16/2022	4/13/2022	4/27/2022	5/12/2022	5/25/2022	6/7/2022	6/22/2022	6/23/2022[1]	7/6/2022	7/20/2022	8/3/2022	8/31/2022	9/14/2022	9/28/2022	10/12/2022	10/27/2022	11/9/2022[2]	11/23/2022
Seekonk River	**Phillipsdale Landing**	211.0		10.0	10.0	10.0	<10.0	<10.0	<10.0	10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0	<10.0	<10.0	<10.0		20.0
	Phillipsdale Landing Duplicate	313.0		52.0	10.0	31.0	<10.0	20.0	10.0	10.0	10.0	<10.0		<10.0	<10.0	<10.0	20.0	30.0	<10.0	20.0	20.0		<10.0
Providence River	**Point St. Bridge**	369.0	31.0	75.0	122.0	85.0	20.0	20.0	10.0	52.0	63.0	<10.0		52.0	10.0	20.0	120.0	384.0	52.0	110.0	426.0	20.0	31.0
	South FP East	20.0	<10.0	20.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	52.0	<10.0	<10.0	63.0	<10.0	<10.0
	Gaspee Point	20.0	<10.0	<10.0	<10.0	20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	30.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Conimicut Point	10.0	<10.0	10.0	10.0	10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	20.0	10.0	<10.0	<10.0	<10.0	<10.0
	Conimicut Point Duplicate	<10.0	<10.0	<10.0	<10.0	<10.0	10.0	<10.0	<10.0	10.0	<10.0	109.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Blank	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

[1] Extra sampling due to high bacteria measurements the day prior and DWO

[2] Seekonk skipped due to Bullock Reach Sonde Swap

Table 41: Bay Enterococci Data

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:00:00 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	8:00:00 AM	(o) Xylene	<0.001	ppm
2/4/2022	8:00:00 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	8:00:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	8:00:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	8:00:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	8:00:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	8:00:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	8:00:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	8:00:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	8:00:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	8:00:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	8:00:00 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	8:00:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	8:00:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	8:00:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	8:00:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	8:00:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	8:00:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	8:00:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	8:00:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	8:00:00 AM	4-Nitrophenol	<0.001	ppm
2/4/2022	8:00:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	8:00:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	8:00:00 AM	Acetone	0.00623	ppm
2/4/2022	8:00:00 AM	Acrolein	<0.001	ppm
2/4/2022	8:00:00 AM	Acrylonitrile	<0.001	ppm
2/4/2022	8:00:00 AM	Aluminum	2188	ppb
2/4/2022	8:00:00 AM	Aluminum, Dissolved	22.94	ppb
2/4/2022	8:00:00 AM	Ammonia	0.216	ppm (as N)
2/4/2022	8:00:00 AM	Anthracene	<0.001	ppm
2/4/2022	8:00:00 AM	Arsenic	2.899	ppb
2/4/2022	8:00:00 AM	Benzene	<0.001	ppm
2/4/2022	8:00:00 AM	Benzidine	<0.001	ppm
2/4/2022	8:00:00 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	8:00:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	8:00:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	8:00:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	8:00:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	8:00:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	8:00:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	8:00:00 AM	Bis(2-ethylhexyl)phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	BOD	7.71	mg/l
2/4/2022	8:00:00 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	8:00:00 AM	Bromoform	<0.001	ppm
2/4/2022	8:00:00 AM	Bromomethane	<0.002	ppm

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:00:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	Cadmium	0.2079	ppb
2/4/2022	8:00:00 AM	Cadmium, Dissolved	0.02215	ppb
2/4/2022	8:00:00 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	8:00:00 AM	Chlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	Chloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	Chloroform	<0.001	ppm
2/4/2022	8:00:00 AM	Chloromethane	<0.001	ppm
2/4/2022	8:00:00 AM	Chromium	13.43	ppb
2/4/2022	8:00:00 AM	Chromium, Dissolved	1.057	ppb
2/4/2022	8:00:00 AM	Chrysene	0.0015	ppm
2/4/2022	8:00:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	8:00:00 AM	Copper	27.51	ppb
2/4/2022	8:00:00 AM	Copper, Dissolved	2.688	ppb
2/4/2022	8:00:00 AM	Cyanide, Total	24.0	ppb
2/4/2022	8:00:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	8:00:00 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	8:00:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	8:00:00 AM	Enterococci	7270.0	MPN_100ml
2/4/2022	8:00:00 AM	Ethylbenzene	<0.001	ppm
2/4/2022	8:00:00 AM	Fecal Coliform	24000.0	MPN_100ml
2/4/2022	8:00:00 AM	Fluoranthene	0.003	ppm
2/4/2022	8:00:00 AM	Fluorene	<0.001	ppm
2/4/2022	8:00:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	8:00:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	8:00:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	8:00:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	8:00:00 AM	Iron	8660	ppb
2/4/2022	8:00:00 AM	Iron, Dissolved	129.1	ppb
2/4/2022	8:00:00 AM	Isophorone	<0.001	ppm
2/4/2022	8:00:00 AM	Lead	41.82	ppb
2/4/2022	8:00:00 AM	Lead, Dissolved	0.7573	ppb
2/4/2022	8:00:00 AM	Mercury	6.26	ppt
2/4/2022	8:00:00 AM	Methylene Chloride	<0.001	ppm
2/4/2022	8:00:00 AM	Molybdenum	1.077	ppb
2/4/2022	8:00:00 AM	Naphthalene	<0.001	ppm
2/4/2022	8:00:00 AM	Nickel	5.757	ppb
2/4/2022	8:00:00 AM	Nickel, Dissolved	0.8900	ppb
2/4/2022	8:00:00 AM	Nitrate	0.262	ppm (as N)
2/4/2022	8:00:00 AM	Nitrate+Nitrite	0.277	ppm (as N)
2/4/2022	8:00:00 AM	Nitrite	0.0152	ppm (as N)
2/4/2022	8:00:00 AM	Nitrobenzene	<0.001	ppm
2/4/2022	8:00:00 AM	Nitrogen, Total	2.21	ppm (as N)
2/4/2022	8:00:00 AM	Nitrogen, Total Kjeldahl	1.93	ppm (as N)
2/4/2022	8:00:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	8:00:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	8:00:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	8:00:00 AM	Oil and Grease	<4.000	ppm
2/4/2022	8:00:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	8:00:00 AM	Phenanthrene	0.0012	ppm
2/4/2022	8:00:00 AM	Phenol	<0.001	ppm
2/4/2022	8:00:00 AM	Phosphorous, Total	0.459	ppm
2/4/2022	8:00:00 AM	Pyrene	0.0022	ppm
2/4/2022	8:00:00 AM	Selenium	<3.000	ppb

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:00:00 AM	Silver	0.6088	ppb
2/4/2022	8:00:00 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	8:00:00 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	8:00:00 AM	Toluene	<0.001	ppm
2/4/2022	8:00:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	8:00:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	8:00:00 AM	Trichloroethene	<0.001	ppm
2/4/2022	8:00:00 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	8:00:00 AM	TSS	152.00	mg/l
2/4/2022	8:00:00 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	8:00:00 AM	Zinc	132.0	ppb
2/4/2022	8:00:00 AM	Zinc, Dissolved	18.09	ppb
2/4/2022	8:30:00 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	8:30:00 AM	(o) Xylene	<0.001	ppm
2/4/2022	8:30:00 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	8:30:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	8:30:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	8:30:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	8:30:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	8:30:00 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	8:30:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	8:30:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	8:30:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	8:30:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	8:30:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	8:30:00 AM	4-Nitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	8:30:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	8:30:00 AM	Acetone	0.00576	ppm
2/4/2022	8:30:00 AM	Acrolein	<0.001	ppm
2/4/2022	8:30:00 AM	Acrylonitrile	<0.001	ppm
2/4/2022	8:30:00 AM	Aluminum	1993	ppb
2/4/2022	8:30:00 AM	Aluminum, Dissolved	21.41	ppb
2/4/2022	8:30:00 AM	Ammonia	0.202	ppm (as N)
2/4/2022	8:30:00 AM	Anthracene	<0.001	ppm
2/4/2022	8:30:00 AM	Arsenic	2.264	ppb
2/4/2022	8:30:00 AM	Benzene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzidine	<0.001	ppm

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:30:00 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	8:30:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	8:30:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	8:30:00 AM	Bis(2-ethylhexyl)phthalate	0.0014	ppm
2/4/2022	8:30:00 AM	BOD	7.72	mg/l
2/4/2022	8:30:00 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	8:30:00 AM	Bromoform	<0.001	ppm
2/4/2022	8:30:00 AM	Bromomethane	<0.002	ppm
2/4/2022	8:30:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Cadmium	0.1968	ppb
2/4/2022	8:30:00 AM	Cadmium, Dissolved	0.02397	ppb
2/4/2022	8:30:00 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	8:30:00 AM	Chlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	Chloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	Chloroform	<0.001	ppm
2/4/2022	8:30:00 AM	Chloromethane	<0.001	ppm
2/4/2022	8:30:00 AM	Chromium	13.43	ppb
2/4/2022	8:30:00 AM	Chromium, Dissolved	1.150	ppb
2/4/2022	8:30:00 AM	Chrysene	0.0019	ppm
2/4/2022	8:30:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	8:30:00 AM	Copper	23.82	ppb
2/4/2022	8:30:00 AM	Copper, Dissolved	2.800	ppb
2/4/2022	8:30:00 AM	Cyanide, Total	19.1	ppb
2/4/2022	8:30:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	8:30:00 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	8:30:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Enterococci	9804.0	MPN_100ml
2/4/2022	8:30:00 AM	Ethylbenzene	<0.001	ppm
2/4/2022	8:30:00 AM	Fecal Coliform	46000.0	MPN_100ml
2/4/2022	8:30:00 AM	Fluoranthene	0.004	ppm
2/4/2022	8:30:00 AM	Fluorene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	8:30:00 AM	Iron	6767	ppb
2/4/2022	8:30:00 AM	Iron, Dissolved	105.7	ppb
2/4/2022	8:30:00 AM	Isophorone	<0.001	ppm
2/4/2022	8:30:00 AM	Lead	39.02	ppb
2/4/2022	8:30:00 AM	Lead, Dissolved	0.7104	ppb
2/4/2022	8:30:00 AM	Mercury	18.0	ppt
2/4/2022	8:30:00 AM	Methylene Chloride	<0.001	ppm
2/4/2022	8:30:00 AM	Molybdenum	<0.900	ppb
2/4/2022	8:30:00 AM	Naphthalene	<0.001	ppm
2/4/2022	8:30:00 AM	Nickel	4.794	ppb
2/4/2022	8:30:00 AM	Nickel, Dissolved	0.6875	ppb
2/4/2022	8:30:00 AM	Nitrate	0.236	ppm (as N)
2/4/2022	8:30:00 AM	Nitrate+Nitrite	0.250	ppm (as N)
2/4/2022	8:30:00 AM	Nitrite	0.0138	ppm (as N)
2/4/2022	8:30:00 AM	Nitrobenzene	<0.001	ppm

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:30:00 AM	Nitrogen, Total	2.07	ppm (as N)
2/4/2022	8:30:00 AM	Nitrogen, Total Kjeldahl	1.82	ppm (as N)
2/4/2022	8:30:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	8:30:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	8:30:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	8:30:00 AM	Oil and Grease	<4.000	ppm
2/4/2022	8:30:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	Phenanthrene	0.0017	ppm
2/4/2022	8:30:00 AM	Phenol	<0.001	ppm
2/4/2022	8:30:00 AM	Phosphorous, Total	0.484	ppm
2/4/2022	8:30:00 AM	Pyrene	0.0031	ppm
2/4/2022	8:30:00 AM	Selenium	<3.000	ppb
2/4/2022	8:30:00 AM	Silver	0.4830	ppb
2/4/2022	8:30:00 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	8:30:00 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	8:30:00 AM	Toluene	<0.001	ppm
2/4/2022	8:30:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	8:30:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	8:30:00 AM	Trichloroethene	<0.001	ppm
2/4/2022	8:30:00 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	8:30:00 AM	TSS	174.00	mg/l
2/4/2022	8:30:00 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	8:30:00 AM	Zinc	115.7	ppb
2/4/2022	8:30:00 AM	Zinc, Dissolved	17.99	ppb
2/4/2022	9:00:00 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	9:00:00 AM	(o) Xylene	<0.001	ppm
2/4/2022	9:00:00 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	9:00:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	9:00:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	9:00:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	9:00:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	9:00:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	9:00:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	9:00:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	9:00:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	9:00:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	9:00:00 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	9:00:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	9:00:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	9:00:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	9:00:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	9:00:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	9:00:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	9:00:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	9:00:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	9:00:00 AM	4-Nitrophenol	<0.001	ppm

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:00:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	9:00:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	9:00:00 AM	Acetone	0.00667	ppm
2/4/2022	9:00:00 AM	Acrolein	<0.001	ppm
2/4/2022	9:00:00 AM	Acrylonitrile	<0.001	ppm
2/4/2022	9:00:00 AM	Aluminum	1760	ppb
2/4/2022	9:00:00 AM	Aluminum, Dissolved	18.95	ppb
2/4/2022	9:00:00 AM	Ammonia	0.188	ppm (as N)
2/4/2022	9:00:00 AM	Anthracene	<0.001	ppm
2/4/2022	9:00:00 AM	Arsenic	2.025	ppb
2/4/2022	9:00:00 AM	Benzene	<0.001	ppm
2/4/2022	9:00:00 AM	Benzidine	<0.001	ppm
2/4/2022	9:00:00 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	9:00:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	9:00:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	9:00:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	9:00:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	9:00:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	9:00:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	9:00:00 AM	Bis(2-ethylhexyl)phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	BOD	7.30	mg/l
2/4/2022	9:00:00 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	9:00:00 AM	Bromoform	<0.001	ppm
2/4/2022	9:00:00 AM	Bromomethane	<0.002	ppm
2/4/2022	9:00:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	Cadmium	0.1946	ppb
2/4/2022	9:00:00 AM	Cadmium, Dissolved	0.02525	ppb
2/4/2022	9:00:00 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	9:00:00 AM	Chlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	Chloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	Chloroform	<0.001	ppm
2/4/2022	9:00:00 AM	Chloromethane	<0.001	ppm
2/4/2022	9:00:00 AM	Chromium	10.63	ppb
2/4/2022	9:00:00 AM	Chromium, Dissolved	0.9476	ppb
2/4/2022	9:00:00 AM	Chrysene	0.0015	ppm
2/4/2022	9:00:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:00:00 AM	Copper	21.24	ppb
2/4/2022	9:00:00 AM	Copper, Dissolved	2.382	ppb
2/4/2022	9:00:00 AM	Cyanide, Total	17.8	ppb
2/4/2022	9:00:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	9:00:00 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	9:00:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	9:00:00 AM	Enterococci	10462.0	MPN_100ml
2/4/2022	9:00:00 AM	Ethylbenzene	<0.001	ppm
2/4/2022	9:00:00 AM	Fecal Coliform	46000.0	MPN_100ml
2/4/2022	9:00:00 AM	Fluoranthene	0.0032	ppm
2/4/2022	9:00:00 AM	Fluorene	<0.001	ppm
2/4/2022	9:00:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	9:00:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	9:00:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	9:00:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	9:00:00 AM	Iron	5989	ppb
2/4/2022	9:00:00 AM	Iron, Dissolved	97.30	ppb
2/4/2022	9:00:00 AM	Isophorone	<0.001	ppm

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow Livingston St. NBC CSO-035A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:00:00 AM	Lead	34.72	ppb
2/4/2022	9:00:00 AM	Lead, Dissolved	0.6186	ppb
2/4/2022	9:00:00 AM	Mercury	22.1	ppt
2/4/2022	9:00:00 AM	Methylene Chloride	<0.001	ppm
2/4/2022	9:00:00 AM	Molybdenum	<0.900	ppb
2/4/2022	9:00:00 AM	Naphthalene	<0.001	ppm
2/4/2022	9:00:00 AM	Nickel	4.470	ppb
2/4/2022	9:00:00 AM	Nickel, Dissolved	0.6157	ppb
2/4/2022	9:00:00 AM	Nitrate	0.256	ppm (as N)
2/4/2022	9:00:00 AM	Nitrate+Nitrite	0.271	ppm (as N)
2/4/2022	9:00:00 AM	Nitrite	0.0152	ppm (as N)
2/4/2022	9:00:00 AM	Nitrobenzene	<0.001	ppm
2/4/2022	9:00:00 AM	Nitrogen, Total	1.87	ppm (as N)
2/4/2022	9:00:00 AM	Nitrogen, Total Kjeldahl	1.60	ppm (as N)
2/4/2022	9:00:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	9:00:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	9:00:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	9:00:00 AM	Oil and Grease	<4.000	ppm
2/4/2022	9:00:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	9:00:00 AM	Phenanthrene	0.0014	ppm
2/4/2022	9:00:00 AM	Phenol	<0.001	ppm
2/4/2022	9:00:00 AM	Phosphorous, Total	0.465	ppm
2/4/2022	9:00:00 AM	Pyrene	0.0024	ppm
2/4/2022	9:00:00 AM	Selenium	<3.000	ppb
2/4/2022	9:00:00 AM	Silver	0.5007	ppb
2/4/2022	9:00:00 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	9:00:00 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	9:00:00 AM	Toluene	<0.001	ppm
2/4/2022	9:00:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	9:00:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:00:00 AM	Trichloroethene	<0.001	ppm
2/4/2022	9:00:00 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	9:00:00 AM	TSS	199.50	mg/l
2/4/2022	9:00:00 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	9:00:00 AM	Zinc	99.51	ppb
2/4/2022	9:00:00 AM	Zinc, Dissolved	14.68	ppb

Table 42: CSO Wet Weather Overflow Livingston St. NBC CSO-035A
*Samples may have included river water back-filling into pipe

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:30:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	8:30:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	8:30:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	8:30:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	8:30:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	8:30:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	8:30:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	8:30:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	8:30:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	8:30:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	8:30:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	8:30:00 AM	4-Nitrophenol	<0.001	ppm
2/4/2022	8:30:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	8:30:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	8:30:00 AM	Aluminum	1432	ppb
2/4/2022	8:30:00 AM	Anthracene	<0.001	ppm
2/4/2022	8:30:00 AM	Arsenic	<1.500	ppb
2/4/2022	8:30:00 AM	Benzidine	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(a)anthracene	0.0015	ppm
2/4/2022	8:30:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	8:30:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	8:30:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	8:30:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	8:30:00 AM	Bis(2-ethylhexyl)phthalate	0.0026	ppm
2/4/2022	8:30:00 AM	BOD	30.55	mg/l
2/4/2022	8:30:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Cadmium	0.1615	ppb
2/4/2022	8:30:00 AM	Chromium	13.40	ppb
2/4/2022	8:30:00 AM	Chrysene	0.0029	ppm
2/4/2022	8:30:00 AM	Copper	36.58	ppb
2/4/2022	8:30:00 AM	Cyanide, Total	21.6	ppb
2/4/2022	8:30:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	8:30:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	8:30:00 AM	Enterococci	>24196.0	MPN_100ml
2/4/2022	8:30:00 AM	Fecal Coliform	>240000.0	MPN_100ml
2/4/2022	8:30:00 AM	Fluoranthene	0.0072	ppm
2/4/2022	8:30:00 AM	Fluorene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	8:30:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	8:30:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	8:30:00 AM	Iron	2650	ppb
2/4/2022	8:30:00 AM	Isophorone	<0.001	ppm

Table 43: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	8:30:00 AM	Lead	35.02	ppb
2/4/2022	8:30:00 AM	Mercury	19.2	ppt
2/4/2022	8:30:00 AM	Molybdenum	1.187	ppb
2/4/2022	8:30:00 AM	Naphthalene	<0.001	ppm
2/4/2022	8:30:00 AM	Nickel	30.92	ppb
2/4/2022	8:30:00 AM	Nitrobenzene	<0.001	ppm
2/4/2022	8:30:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	8:30:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	8:30:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	8:30:00 AM	Oil and Grease	5.465	ppm
2/4/2022	8:30:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	8:30:00 AM	Phenanthrene	0.0032	ppm
2/4/2022	8:30:00 AM	Phenol	<0.001	ppm
2/4/2022	8:30:00 AM	Pyrene	0.0047	ppm
2/4/2022	8:30:00 AM	Selenium	<3.000	ppb
2/4/2022	8:30:00 AM	Silver	7.201	ppb
2/4/2022	8:30:00 AM	TSS	79.000	mg/l
2/4/2022	8:30:00 AM	Zinc	119.0	ppb
2/4/2022	9:30:00 AM	Aluminum	812.9	ppb
2/4/2022	9:30:00 AM	Arsenic	0.9028	ppb
2/4/2022	9:30:00 AM	BOD	30.22	mg/l
2/4/2022	9:30:00 AM	Cadmium	0.1142	ppb
2/4/2022	9:30:00 AM	Chromium	11.86	ppb
2/4/2022	9:30:00 AM	Copper	28.85	ppb
2/4/2022	9:30:00 AM	Cyanide, Total	9.26	ppb
2/4/2022	9:30:00 AM	Enterococci	>24196.0	MPN_100ml
2/4/2022	9:30:00 AM	Fecal Coliform	>240000.0	MPN_100ml
2/4/2022	9:30:00 AM	Iron	1584	ppb
2/4/2022	9:30:00 AM	Lead	22.01	ppb
2/4/2022	9:30:00 AM	Molybdenum	1.023	ppb
2/4/2022	9:30:00 AM	Nickel	21.27	ppb
2/4/2022	9:30:00 AM	Selenium	2.922	ppb
2/4/2022	9:30:00 AM	Silver	22.48	ppb
2/4/2022	9:30:00 AM	TSS	123.50	mg/l
2/4/2022	9:30:00 AM	Zinc	71.74	ppb

Table 43: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:00 AM	BOD	10.12	mg/l
2/4/2022	9:00 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	9:00 AM	(o) Xylene	<0.001	ppm
2/4/2022	9:00 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	9:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	9:00 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	9:00 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	9:00 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	9:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	9:00 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	9:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	9:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	9:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	9:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	9:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	9:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	9:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	9:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	9:00 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	9:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	9:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	9:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	9:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	9:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	9:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	9:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	9:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	9:00 AM	4-Nitrophenol	<0.001	ppm
2/4/2022	9:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	9:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	9:00 AM	Acetone	0.00861	ppm
2/4/2022	9:00 AM	Acrolein	<0.001	ppm
2/4/2022	9:00 AM	Acrylonitrile	<0.001	ppm
2/4/2022	9:00 AM	Aluminum	439.5	ppb
2/4/2022	9:00 AM	Aluminum, Dissolved	16.88	ppb
2/4/2022	9:00 AM	Ammonia	0.551	ppm (as N)
2/4/2022	9:00 AM	Anthracene	<0.001	ppm
2/4/2022	9:00 AM	Arsenic	0.5942	ppb
2/4/2022	9:00 AM	Benzene	<0.001	ppm
2/4/2022	9:00 AM	Benzidine	<0.001	ppm
2/4/2022	9:00 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	9:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	9:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	9:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	9:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	9:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	9:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	9:00 AM	Bis(2-ethylhexyl)phthalate	<0.001	ppm
2/4/2022	9:00 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	9:00 AM	Bromoform	<0.001	ppm
2/4/2022	9:00 AM	Bromomethane	<0.002	ppm

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	9:00 AM	Cadmium	0.05753	ppb
2/4/2022	9:00 AM	Cadmium, Dissolved	<0.020	ppb
2/4/2022	9:00 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	9:00 AM	Chlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	Chloroethane	<0.001	ppm
2/4/2022	9:00 AM	Chloroform	<0.001	ppm
2/4/2022	9:00 AM	Chloromethane	<0.001	ppm
2/4/2022	9:00 AM	Chromium	2.510	ppb
2/4/2022	9:00 AM	Chromium, Dissolved	0.6557	ppb
2/4/2022	9:00 AM	Chrysene	<0.001	ppm
2/4/2022	9:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:00 AM	Copper	9.983	ppb
2/4/2022	9:00 AM	Copper, Dissolved	3.090	ppb
2/4/2022	9:00 AM	Cyanide, Total	5.79	ppb
2/4/2022	9:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	9:00 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	9:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	9:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	9:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	9:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	9:00 AM	Enterococci	24196.0	MPN_100ml
2/4/2022	9:00 AM	Ethylbenzene	<0.001	ppm
2/4/2022	9:00 AM	Fecal Coliform	>240000.0	MPN_100ml
2/4/2022	9:00 AM	Fluoranthene	0.0012	ppm
2/4/2022	9:00 AM	Fluorene	<0.001	ppm
2/4/2022	9:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	9:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	9:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	9:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	9:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	9:00 AM	Iron	821.7	ppb
2/4/2022	9:00 AM	Iron, Dissolved	29.21	ppb
2/4/2022	9:00 AM	Isophorone	<0.001	ppm
2/4/2022	9:00 AM	Lead	18.58	ppb
2/4/2022	9:00 AM	Lead, Dissolved	0.7482	ppb
2/4/2022	9:00 AM	Mercury	9.14	ppt
2/4/2022	9:00 AM	Methylene Chloride	<0.001	ppm
2/4/2022	9:00 AM	Molybdenum	0.3466	ppb
2/4/2022	9:00 AM	Naphthalene	<0.001	ppm
2/4/2022	9:00 AM	Nickel	1.180	ppb
2/4/2022	9:00 AM	Nickel, Dissolved	<0.300	ppb
2/4/2022	9:00 AM	Nitrate	0.136	ppm (as N)
2/4/2022	9:00 AM	Nitrate+Nitrite	0.148	ppm (as N)
2/4/2022	9:00 AM	Nitrite	0.0124	ppm (as N)
2/4/2022	9:00 AM	Nitrobenzene	<0.001	ppm
2/4/2022	9:00 AM	Nitrogen, Total	1.71	ppm (as N)
2/4/2022	9:00 AM	Nitrogen, Total Kjeldahl	1.56	ppm (as N)
2/4/2022	9:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	9:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	9:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	9:00 AM	Oil and Grease	<4.000	ppm
2/4/2022	9:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	9:00 AM	Phenanthrene	<0.001	ppm
2/4/2022	9:00 AM	Phenol	<0.001	ppm
2/4/2022	9:00 AM	Phosphorous, Total	0.341	ppm
2/4/2022	9:00 AM	Pyrene	<0.001	ppm
2/4/2022	9:00 AM	Selenium	<1.000	ppb

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:00 AM	Silver	0.03747	ppb
2/4/2022	9:00 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	9:00 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	9:00 AM	Toluene	<0.001	ppm
2/4/2022	9:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	9:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:00 AM	Trichloroethene	<0.001	ppm
2/4/2022	9:00 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	9:00 AM	TSS	48.500	mg/l
2/4/2022	9:00 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	9:00 AM	Zinc	51.84	ppb
2/4/2022	9:00 AM	Zinc, Dissolved	21.16	ppb
2/4/2022	9:30 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	9:30 AM	(o) Xylene	<0.001	ppm
2/4/2022	9:30 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	9:30 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	9:30 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	9:30 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	9:30 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	9:30 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	9:30 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	9:30 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	9:30 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	9:30 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	9:30 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	9:30 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	9:30 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	9:30 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	9:30 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	9:30 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	9:30 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	9:30 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	9:30 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	9:30 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	9:30 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	9:30 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	9:30 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	9:30 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	9:30 AM	4-Nitrophenol	<0.001	ppm
2/4/2022	9:30 AM	Acenaphthene	<0.001	ppm
2/4/2022	9:30 AM	Acenaphthylene	<0.001	ppm
2/4/2022	9:30 AM	Acetone	0.0108	ppm
2/4/2022	9:30 AM	Acrolein	<0.001	ppm
2/4/2022	9:30 AM	Acrylonitrile	<0.001	ppm
2/4/2022	9:30 AM	Aluminum	453.3	ppb
2/4/2022	9:30 AM	Aluminum, Dissolved	15.63	ppb
2/4/2022	9:30 AM	Ammonia	0.618	ppm (as N)
2/4/2022	9:30 AM	Anthracene	<0.001	ppm
2/4/2022	9:30 AM	Arsenic	0.5785	ppb
2/4/2022	9:30 AM	Benzene	<0.001	ppm
2/4/2022	9:30 AM	Benzidine	<0.001	ppm

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:30 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	9:30 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	9:30 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	9:30 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	9:30 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	9:30 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	9:30 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	9:30 AM	Bis(2-ethylhexyl)phthalate	<0.001	ppm
2/4/2022	9:30 AM	BOD	10.14	mg/l
2/4/2022	9:30 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	9:30 AM	Bromoform	<0.001	ppm
2/4/2022	9:30 AM	Bromomethane	<0.002	ppm
2/4/2022	9:30 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	9:30 AM	Cadmium	0.05308	ppb
2/4/2022	9:30 AM	Cadmium, Dissolved	0.02008	ppb
2/4/2022	9:30 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	9:30 AM	Chlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	Chloroethane	<0.001	ppm
2/4/2022	9:30 AM	Chloroform	<0.001	ppm
2/4/2022	9:30 AM	Chloromethane	<0.001	ppm
2/4/2022	9:30 AM	Chromium	2.299	ppb
2/4/2022	9:30 AM	Chromium, Dissolved	0.6619	ppb
2/4/2022	9:30 AM	Chrysene	<0.001	ppm
2/4/2022	9:30 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:30 AM	Copper	9.074	ppb
2/4/2022	9:30 AM	Copper, Dissolved	3.131	ppb
2/4/2022	9:30 AM	Cyanide, Total	5.96	ppb
2/4/2022	9:30 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	9:30 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	9:30 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	9:30 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	9:30 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	9:30 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	9:30 AM	Enterococci	>24196.0	MPN_100ml
2/4/2022	9:30 AM	Ethylbenzene	<0.001	ppm
2/4/2022	9:30 AM	Fecal Coliform	>240000.0	MPN_100ml
2/4/2022	9:30 AM	Fluoranthene	<0.001	ppm
2/4/2022	9:30 AM	Fluorene	<0.001	ppm
2/4/2022	9:30 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	9:30 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	9:30 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	9:30 AM	Hexachloroethane	<0.001	ppm
2/4/2022	9:30 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	9:30 AM	Iron	822.3	ppb
2/4/2022	9:30 AM	Iron, Dissolved	29.01	ppb
2/4/2022	9:30 AM	Isophorone	<0.001	ppm
2/4/2022	9:30 AM	Lead	15.64	ppb
2/4/2022	9:30 AM	Lead, Dissolved	0.7230	ppb
2/4/2022	9:30 AM	Mercury	8.86	ppt
2/4/2022	9:30 AM	Methylene Chloride	<0.001	ppm
2/4/2022	9:30 AM	Molybdenum	0.4147	ppb
2/4/2022	9:30 AM	Naphthalene	<0.001	ppm
2/4/2022	9:30 AM	Nickel	1.163	ppb
2/4/2022	9:30 AM	Nickel, Dissolved	<0.300	ppb
2/4/2022	9:30 AM	Nitrate	0.147	ppm (as N)
2/4/2022	9:30 AM	Nitrate+Nitrite	0.160	ppm (as N)
2/4/2022	9:30 AM	Nitrite	0.0129	ppm (as N)
2/4/2022	9:30 AM	Nitrobenzene	<0.001	ppm

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	9:30 AM	Nitrogen, Total	2.82	ppm (as N)
2/4/2022	9:30 AM	Nitrogen, Total Kjeldahl	2.66	ppm (as N)
2/4/2022	9:30 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	9:30 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	9:30 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	9:30 AM	Oil and Grease	<4.000	ppm
2/4/2022	9:30 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	9:30 AM	Phenanthrene	<0.001	ppm
2/4/2022	9:30 AM	Phenol	<0.001	ppm
2/4/2022	9:30 AM	Phosphorous, Total	0.362	ppm
2/4/2022	9:30 AM	Pyrene	<0.001	ppm
2/4/2022	9:30 AM	Selenium	<1.000	ppb
2/4/2022	9:30 AM	Silver	0.07565	ppb
2/4/2022	9:30 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	9:30 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	9:30 AM	Toluene	<0.001	ppm
2/4/2022	9:30 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	9:30 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	9:30 AM	Trichloroethene	<0.001	ppm
2/4/2022	9:30 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	9:30 AM	TSS	38.333	mg/l
2/4/2022	9:30 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	9:30 AM	Zinc	48.60	ppb
2/4/2022	9:30 AM	Zinc, Dissolved	21.42	ppb
2/4/2022	10:00 AM	(m & p) Xylene	<0.002	ppm
2/4/2022	10:00 AM	(o) Xylene	<0.001	ppm
2/4/2022	10:00 AM	1,1,1-Trichloroethane	<0.001	ppm
2/4/2022	10:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2022	10:00 AM	1,1,2-Trichloroethane	<0.001	ppm
2/4/2022	10:00 AM	1,1-Dichloroethane	<0.001	ppm
2/4/2022	10:00 AM	1,1-Dichloroethene	<0.001	ppm
2/4/2022	10:00 AM	1,2,4-Trichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,2-Dichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,2-Dichloroethane	<0.001	ppm
2/4/2022	10:00 AM	1,2-Dichloropropane	<0.001	ppm
2/4/2022	10:00 AM	1,2-Diphenylhydrazine	<0.001	ppm
2/4/2022	10:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,3-Dichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,4-Dicchlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	1,4-Dichlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	2,2'-Oxybis(1-chloropropane)	<0.001	ppm
2/4/2022	10:00 AM	2,4,6-Trichlorophenol	<0.001	ppm
2/4/2022	10:00 AM	2,4-Dichlorophenol	<0.001	ppm
2/4/2022	10:00 AM	2,4-Dimethylphenol	<0.001	ppm
2/4/2022	10:00 AM	2,4-Dinitrophenol	<0.002	ppm
2/4/2022	10:00 AM	2,4-Dinitrotoluene	<0.001	ppm
2/4/2022	10:00 AM	2,6-Dinitrotoluene	<0.001	ppm
2/4/2022	10:00 AM	2-Chloroethylvinylether	<0.001	ppm
2/4/2022	10:00 AM	2-Chloronaphthalene	<0.001	ppm
2/4/2022	10:00 AM	2-Chlorophenol	<0.001	ppm
2/4/2022	10:00 AM	2-Methyl-4,6-dinitrophenol	<0.001	ppm
2/4/2022	10:00 AM	2-Nitrophenol	<0.001	ppm
2/4/2022	10:00 AM	3,3'-Dichlorobenzidine	<0.001	ppm
2/4/2022	10:00 AM	4-Bromophenyl phenyl ether	<0.001	ppm
2/4/2022	10:00 AM	4-Chloro-3-methylphenol	<0.001	ppm
2/4/2022	10:00 AM	4-Chlorophenyl phenyl ether	<0.001	ppm
2/4/2022	10:00 AM	4-Nitrophenol	<0.001	ppm

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	10:00 AM	Acenaphthene	<0.001	ppm
2/4/2022	10:00 AM	Acenaphthylene	<0.001	ppm
2/4/2022	10:00 AM	Acetone	0.0117	ppm
2/4/2022	10:00 AM	Acrolein	<0.001	ppm
2/4/2022	10:00 AM	Acrylonitrile	<0.001	ppm
2/4/2022	10:00 AM	Aluminum	454.4	ppb
2/4/2022	10:00 AM	Aluminum, Dissolved	16.66	ppb
2/4/2022	10:00 AM	Ammonia	0.536	ppm (as N)
2/4/2022	10:00 AM	Anthracene	<0.001	ppm
2/4/2022	10:00 AM	Arsenic	0.6203	ppb
2/4/2022	10:00 AM	Benzene	<0.001	ppm
2/4/2022	10:00 AM	Benzidine	<0.001	ppm
2/4/2022	10:00 AM	Benzo(a)anthracene	<0.001	ppm
2/4/2022	10:00 AM	Benzo(a)pyrene	<0.001	ppm
2/4/2022	10:00 AM	Benzo(b)fluoranthene	<0.001	ppm
2/4/2022	10:00 AM	Benzo(g,h,i)perylene	<0.001	ppm
2/4/2022	10:00 AM	Benzo(k)fluoranthene	<0.001	ppm
2/4/2022	10:00 AM	Bis(2-Chloroethoxy)methane	<0.001	ppm
2/4/2022	10:00 AM	bis(2-Chloroethyl)Ether	<0.001	ppm
2/4/2022	10:00 AM	Bis(2-ethylhexyl)phthalate	<0.001	ppm
2/4/2022	10:00 AM	BOD	10.79	mg/l
2/4/2022	10:00 AM	Bromodichloromethane	<0.001	ppm
2/4/2022	10:00 AM	Bromoform	<0.001	ppm
2/4/2022	10:00 AM	Bromomethane	<0.002	ppm
2/4/2022	10:00 AM	Butylbenzyl phthalate	<0.001	ppm
2/4/2022	10:00 AM	Cadmium	0.06245	ppb
2/4/2022	10:00 AM	Cadmium, Dissolved	<0.020	ppb
2/4/2022	10:00 AM	Carbon Tetrachloride	<0.001	ppm
2/4/2022	10:00 AM	Chlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	Chloroethane	<0.001	ppm
2/4/2022	10:00 AM	Chloroform	<0.001	ppm
2/4/2022	10:00 AM	Chloromethane	<0.001	ppm
2/4/2022	10:00 AM	Chromium	2.228	ppb
2/4/2022	10:00 AM	Chromium, Dissolved	0.6850	ppb
2/4/2022	10:00 AM	Chrysene	<0.001	ppm
2/4/2022	10:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2022	10:00 AM	Copper	9.166	ppb
2/4/2022	10:00 AM	Copper, Dissolved	3.073	ppb
2/4/2022	10:00 AM	Cyanide, Total	4.60	ppb
2/4/2022	10:00 AM	Dibenzo(a,h)anthracene	<0.001	ppm
2/4/2022	10:00 AM	Dibromochloromethane	<0.001	ppm
2/4/2022	10:00 AM	Diethyl phthalate	<0.001	ppm
2/4/2022	10:00 AM	Dimethyl phthalate	<0.001	ppm
2/4/2022	10:00 AM	Di-n-butyl phthalate	<0.001	ppm
2/4/2022	10:00 AM	Di-n-octyl phthalate	<0.001	ppm
2/4/2022	10:00 AM	Enterococci	>24196.0	MPN_100ml
2/4/2022	10:00 AM	Ethylbenzene	<0.001	ppm
2/4/2022	10:00 AM	Fecal Coliform	>240000.0	MPN_100ml
2/4/2022	10:00 AM	Fluoranthene	0.001	ppm
2/4/2022	10:00 AM	Fluorene	<0.001	ppm
2/4/2022	10:00 AM	Hexachlorobenzene	<0.001	ppm
2/4/2022	10:00 AM	Hexachlorobutadiene	<0.001	ppm
2/4/2022	10:00 AM	Hexachlorocyclopentadiene	<0.001	ppm
2/4/2022	10:00 AM	Hexachloroethane	<0.001	ppm
2/4/2022	10:00 AM	Indeno(1,2,3-cd)pyrene	<0.001	ppm
2/4/2022	10:00 AM	Iron	839.1	ppb
2/4/2022	10:00 AM	Iron, Dissolved	28.94	ppb
2/4/2022	10:00 AM	Isophorone	<0.001	ppm

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
2/4/2022	10:00 AM	Lead	18.57	ppb
2/4/2022	10:00 AM	Lead, Dissolved	0.7328	ppb
2/4/2022	10:00 AM	Mercury	9.84	ppt
2/4/2022	10:00 AM	Methylene Chloride	<0.001	ppm
2/4/2022	10:00 AM	Molybdenum	0.3790	ppb
2/4/2022	10:00 AM	Naphthalene	<0.001	ppm
2/4/2022	10:00 AM	Nickel	1.188	ppb
2/4/2022	10:00 AM	Nickel, Dissolved	0.3003	ppb
2/4/2022	10:00 AM	Nitrate	0.145	ppm (as N)
2/4/2022	10:00 AM	Nitrate+Nitrite	0.159	ppm (as N)
2/4/2022	10:00 AM	Nitrite	0.0140	ppm (as N)
2/4/2022	10:00 AM	Nitrobenzene	<0.001	ppm
2/4/2022	10:00 AM	Nitrogen, Total	2.40	ppm (as N)
2/4/2022	10:00 AM	Nitrogen, Total Kjeldahl	2.24	ppm (as N)
2/4/2022	10:00 AM	N-nitrosodimethylamine	<0.001	ppm
2/4/2022	10:00 AM	N-nitrosodi-n-propylamine	<0.001	ppm
2/4/2022	10:00 AM	N-nitrosodiphenylamine	<0.001	ppm
2/4/2022	10:00 AM	Oil and Grease	<4.000	ppm
2/4/2022	10:00 AM	Pentachlorophenol	<0.001	ppm
2/4/2022	10:00 AM	Phenanthrene	<0.001	ppm
2/4/2022	10:00 AM	Phenol	<0.001	ppm
2/4/2022	10:00 AM	Phosphorous, Total	0.344	ppm
2/4/2022	10:00 AM	Pyrene	<0.001	ppm
2/4/2022	10:00 AM	Selenium	<1.000	ppb
2/4/2022	10:00 AM	Silver	0.06130	ppb
2/4/2022	10:00 AM	Silver, Dissolved	<0.020	ppb
2/4/2022	10:00 AM	Tetrachloroethene	<0.001	ppm
2/4/2022	10:00 AM	Toluene	<0.001	ppm
2/4/2022	10:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2022	10:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2022	10:00 AM	Trichloroethene	<0.001	ppm
2/4/2022	10:00 AM	Trichlorofluoromethane	<0.001	ppm
2/4/2022	10:00 AM	TSS	38.250	mg/l
2/4/2022	10:00 AM	Vinyl Chloride	<0.001	ppm
2/4/2022	10:00 AM	Zinc	57.91	ppb
2/4/2022	10:00 AM	Zinc, Dissolved	21.20	ppb

Table 44: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
1/6/22	Edgewood Yacht Club	9:30 AM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.4	3.2	3.3	
1/6/22	Bullock Reach	9:38 AM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.2	3.0	3.1	
1/6/22	Conimicut Point	9:40 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
1/6/22	Point St. Bridge	10:10 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	1.8	1.6	1.7	
1/6/22	India Point Park	10:15 AM	M	2.2	2.0	2.1	1.8	1.6	1.7	2.2	2.0	2.1	
1/6/22	Phillipsdale Landing	10:38 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.0	1.8	1.9	
1/13/22	Edgewood Yacht Club	10:00 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.0	2.8	2.9	
1/13/22	Pawtuxet Cove	10:15 AM	M	2.6	2.2	2.4	2.6	2.2	2.4	2.7	2.4	2.6	
1/13/22	Pomham Rocks	10:30 AM	M	3.2	2.6	2.9	2.7	2.2	2.5	3.0	2.4	2.7	
1/13/22	Bullock Reach	12:45 PM	M	2.7	2.6	2.7	3.0	2.8	2.9	3.0	2.7	2.9	
1/13/22	Conimicut Point	1:00 PM	M	3.4	3.3	3.4	3.6	3.3	3.5	3.8	3.6	3.7	
1/13/22	India Point Park	2:00 PM	M	2.4	2.2	2.3	2.6	2.2	2.4	2.8	2.4	2.6	
2/9/22	Edgewood Yacht Club	10:25 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	
2/9/22	Pomham Rocks	10:40 AM	M	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.3	1.4	
2/9/22	Conimicut Point	12:50 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
2/9/22	Bullock Reach	1:05 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
2/9/22	Pawtuxet Cove	1:25 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
2/9/22	India Point Park	1:50 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
2/9/22	Edgewood Shoal	2:15 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
3/9/22	Conimicut Point	9:15 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/9/22	Bullock Reach	9:30 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
3/9/22	Pawtuxet Cove	9:40 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
3/9/22	Pomham Rocks	9:50 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
3/9/22	India Point Park	10:00 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
3/9/22	Phillipsdale Landing	10:20 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/9/22	Edgewood Yacht Club	10:50 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
3/9/22	Edgewood Shoal	10:55 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/16/22	Edgewood Yacht Club	8:15 AM	M	2.2	2.1	2.2	2.0	1.8	1.9	2.0	1.8	1.9	
3/16/22	Bullock Reach	8:35 AM	M	2.2	2.0	2.1	1.8	1.6	1.7	2.2	2.0	2.1	
3/16/22	Conimicut Point	8:44 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
3/16/22	India Point Park	9:26 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
3/16/22	Phillipsdale Landing	9:45 AM	M	2.2	2.0	2.1	1.8	1.6	1.7	2.0	1.8	1.9	
4/6/22	India Point Park	8:55 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.2	2.0	2.1	
4/6/22	Pomham Rocks	9:05 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.2	2.0	2.1	
4/6/22	Conimicut Point	9:20 AM	M	3.2	3.0	3.1	2.8	2.6	2.7	3.0	2.8	2.9	
4/6/22	Bullock Reach	9:30 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.2	3.0	3.1	
4/6/22	Pawtuxet Cove	10:15 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	2.0	1.8	1.9	
4/6/22	Edgewood Yacht Club	10:30 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
4/13/22	Edgewood Yacht Club	8:42 AM	M	4.2	4.0	4.1	4.2	4.0	4.1	4.2	4.0	4.1	
4/13/22	Bullock Reach	8:49 AM	M	4.6	4.4	4.5	4.4	4.2	4.3	4.8	4.6	4.7	
4/13/22	Conimicut Point	8:56 AM	M	4.8	4.6	4.7	4.8	4.6	4.7	4.8	4.6	4.7	
4/13/22	Pomham Rocks	9:15 AM	M	4.8	4.6	4.7	5.0	4.8	4.9	5.0	4.8	4.9	
4/13/22	Pawtuxet Cove	9:30 AM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	

Table 45: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
4/13/22	India Point Park	9:42 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.0	2.8	2.9	
4/13/22	Phillipsdale Landing	10:05 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
4/27/22	Edgewood Yacht Club	8:00 AM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	
4/27/22	Bullock Reach	8:10 AM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.6	3.4	3.5	
4/27/22	Conimicut Point	8:15 AM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.6	3.4	3.5	
4/27/22	Pomham Rocks	8:40 AM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
4/27/22	Pawtuxet Cove	9:00 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
4/27/22	India Point Park	9:05 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
4/27/22	Phillipsdale Landing	9:28 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
5/4/22	India Point Park	9:00 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.0	2.8	2.9	
5/4/22	Pomham Rocks	9:15 AM	M	2.8	2.6	2.7	2.6	2.8	2.7	2.8	2.6	2.7	
5/4/22	Conimicut Point	9:30 AM	M	4.0	3.8	3.9	3.8	3.6	3.7	4.0	3.8	3.9	
5/4/22	Bullock Reach	9:40 AM	M	4.2	4.0	4.1	4.6	4.2	4.4	4.2	4.0	4.1	
5/4/22	Pawtuxet Cove	10:15 AM	M	2.6	2.4	2.5	2.8	2.6	2.7	2.6	2.4	2.5	
5/4/22	Edgewood Yacht Club	10:20 AM	M	3.4	3.2	3.3	2.8	2.6	2.7	3.0	2.8	2.9	
5/4/22	Edgewood Shoal	10:30 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.2	2.8	3.0	
5/12/22	Bullock Reach	8:20 AM	M	2.0	1.8	1.9	2.4	2.2	2.3	2.0	1.8	1.9	Strong outgoing current
5/12/22	Conimicut Point	8:40 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.6	3.4	3.5	Strong outgoing current
5/12/22	Point St. Bridge	9:20 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	Strong outgoing current
5/12/22	India Point Park	9:35 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	1.8	1.6	1.7	Strong outgoing current
5/12/22	Phillipsdale Landing	10:00 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.6	1.2	1.4	Strong outgoing current
5/12/22	Edgewood Yacht Club	12:35 PM	M	NR	4.0	4.0	NR	4.0	4.0	NR	4.0	4.0	On bottom. Strong outgoing current
5/12/22	Pomham Rocks	12:45 PM	M	3.6	3.4	3.5	4.2	4.0	4.1	4.0	3.8	3.9	Strong outgoing current
5/12/22	Pawtuxet Cove	1:00 PM	M	NR	3.5	3.5	NR	3.5	3.5	NR	3.5	3.5	On bottom. Strong outgoing current
5/18/22	Pomham Rocks	8:00 AM	M	3.2	3.0	3.1	2.8	2.6	2.7	3.0	2.8	2.9	
5/18/22	Pawtuxet Cove	8:40 AM	M	3.2	3.0	3.1	2.6	2.4	2.5	2.8	2.6	2.7	
5/18/22	Conimicut Point	9:00 AM	M	4.0	3.8	3.9	3.8	3.6	3.7	4.0	3.8	3.9	
5/18/22	Bullock Reach	9:20 AM	M	4.0	3.8	3.9	3.8	3.6	3.7	3.8	3.6	3.7	
5/18/22	India Point Park	1:15 PM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.2	3.0	3.1	
5/18/22	Edgewood Yacht Club	1:40 PM	M	2.8	2.4	2.6	2.6	2.4	2.5	2.8	2.4	2.6	
5/25/22	Bullock Reach	8:25 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
5/25/22	Conimicut Point	8:40 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.4	2.6	
5/25/22	Pomham Rocks	9:05 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
5/25/22	Point St. Bridge	9:35 AM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
5/25/22	India Point Park	9:40 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
5/25/22	Phillipsdale Landing	10:00 AM	M	1.2	1.0	1.1	0.8	0.6	0.7	1.2	1.0	1.1	
5/25/22	Edgewood Yacht Club	12:00 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.4	1.2	1.3	
5/25/22	Pawtuxet Cove	12:45 PM	M	0.8	0.6	0.7	0.6	0.4	0.5	0.8	0.6	0.7	
6/1/22	Conimicut Point	8:45 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	2.0	1.8	1.9	Calm conditions, Pollen
6/1/22	Bullock Reach	9:05 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.0	1.8	1.9	Calm conditions, Pollen
6/1/22	Pomham Rocks	9:45 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	Calm conditions, Pollen

Table 45: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
6/1/22	Edgewood Shoal	10:05 AM	M	1.6	1.4	1.5	1.8	1.6	1.7	1.8	1.6	1.7	Calm conditions, Pollen
6/1/22	Phillipsdale Landing	1:05 PM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	Calm conditions, Pollen
6/1/22	India Point Park	1:40 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	Calm conditions, Pollen
6/1/22	Edgewood Yacht Club	2:00 PM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	Calm conditions, Pollen
6/1/22	Pawtuxet Cove	2:30 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	Calm conditions, Pollen
6/7/22	Bullock Reach	8:00 AM	M	2.2	2.0	2.1	2.4	2.0	2.2	2.0	1.8	1.9	
6/7/22	Conimicut Point	8:10 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.2	3.0	3.1	
6/7/22	Point St. Bridge	8:50 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
6/7/22	India Point Park	9:00 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
6/7/22	Phillipsdale Landing	9:30 AM	M	0.6	0.4	0.5	0.4	0.2	0.3	0.6	0.4	0.5	
6/7/22	Pawtuxet Cove	1:00 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
6/15/22	Pomham Rocks	8:10 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.2	1.0	1.1	
6/15/22	Pawtuxet Cove	8:25 AM	M	1.0	0.8	0.9	1.2	1.0	1.1	0.8	0.6	0.7	
6/15/22	Conimicut Point	8:50 AM	M	1.2	1.0	1.1	1.4	1.2	1.3	1.2	1.0	1.1	
6/15/22	Bullock Reach	9:15 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.0	1.8	1.9	
6/15/22	India Point Park	1:00 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
6/15/22	Edgewood Yacht Club	1:30 PM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.4	1.2	1.3	
6/22/22	Bullock Reach	8:23 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
6/22/22	Conimicut Point	8:34 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
6/22/22	Point St. Bridge	9:15 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
6/22/22	India Point Park	9:23 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/22/22	Phillipsdale Landing	9:50 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
6/22/22	Edgewood Yacht Club	12:55 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
6/22/22	Pawtuxet Cove	1:10 PM	M	2.0	1.8	1.9	1.8	1.6	1.7	1.8	1.6	1.7	
6/22/22	Pomham Rocks	1:25 PM	M	1.6	1.4	1.5	1.8	1.6	1.7	1.6	1.4	1.5	
6/29/22	Conimicut Point	8:40 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/29/22	Bullock Reach	9:00 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
6/29/22	Pomham Rocks	9:55 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.4	1.2	1.3	
6/29/22	Edgewood Shoal	10:05 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
6/29/22	Phillipsdale Landing	1:20 PM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.0	0.8	0.9	
6/29/22	India Point Park	1:40 PM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.0	1.8	1.9	
6/29/22	Pawtuxet Cove	2:10 PM	M	2.2	1.8	2.0	2.2	1.8	2.0	2.2	1.8	2.0	
6/29/22	Edgewood Yacht Club	2:25 PM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
7/6/22	Bullock Reach	8:05 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
7/6/22	Conimicut Point	8:20 AM	M	3.2	3.0	3.1	3.3	3.0	3.2	3.0	2.8	2.9	
7/6/22	Point St. Bridge	9:05 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
7/6/22	India Point Park	9:20 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.2	2.0	2.1	
7/6/22	Phillipsdale Landing	9:45 AM	M	0.8	5.6	3.2	0.6	0.4	0.5	0.8	0.6	0.7	
7/6/22	Pomham Rocks	12:55 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
7/6/22	Pawtuxet Cove	1:10 PM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
7/6/22	Edgewood Yacht Club	1:15 PM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.6	1.4	1.5	
7/14/22	India Point Park	7:50 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
7/14/22	Pomham Rocks	8:10 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.0	1.8	1.9	

Table 45: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
7/14/22	Edgewood Yacht Club	8:20 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.2	2.0	2.1	
7/14/22	Conimicut Point	9:20 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
7/14/22	Bullock Reach	9:30 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
7/14/22	Pawtuxet Cove	10:15 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
7/20/22	Edgewood Yacht Club	7:45 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	2.0	1.8	1.9	
7/20/22	Bullock Reach	8:08 AM	M	1.4	1.2	1.3	1.2	1.2	1.2	1.4	1.2	1.3	
7/20/22	Conimicut Point	8:20 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
7/20/22	Pomham Rocks	8:55 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
7/20/22	Point St. Bridge	9:15 AM	M	2.4	2.2	2.3	2.4	2.0	2.2	2.4	2.2	2.3	
7/20/22	India Point Park	9:25 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
7/20/22	Phillipsdale Landing	9:52 AM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	
7/27/22	Phillipsdale Landing	8:30 AM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
7/27/22	India Point Park	8:55 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
7/27/22	Pomham Rocks	9:10 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
7/27/22	Conimicut Point	9:40 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
7/27/22	Bullock Reach	9:50 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.4	1.2	1.3	
7/27/22	Edgewood Yacht Club	10:30 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
7/27/22	Edgewood Shoal	10:40 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
8/3/22	Bullock Reach	8:10 AM	M	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.2	2.3	
8/3/22	Conimicut Point	8:27 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.4	2.2	2.3	
8/3/22	Pomham Rocks	8:56 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/3/22	Point St. Bridge	9:17 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/3/22	India Point Park	9:29 AM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	
8/3/22	Phillipsdale Landing	9:53 AM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	
8/3/22	Edgewood Yacht Club	12:40 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/3/22	Pawtuxet Cove	12:58 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
8/9/22	India Point Park	8:00 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
8/9/22	Pomham Rocks	8:15 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.6	1.4	1.5	
8/9/22	Conimicut Point	8:30 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.2	2.0	2.1	
8/9/22	Bullock Reach	8:45 AM	M	1.8	1.6	1.7	2.0	1.8	1.9	1.8	1.6	1.7	
8/9/22	Pawtuxet Cove	9:30 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
8/9/22	Edgewood Yacht Club	9:40 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
8/24/22	Conimicut Point	8:05 AM	M	1.6	1.4	1.5	1.8	1.6	1.7	1.6	1.4	1.5	
8/24/22	Bullock Reach	8:30 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/24/22	Pomham Rocks	9:15 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/24/22	Edgewood Shoal	9:35 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.8	1.6	1.7	
8/24/22	Edgewood Yacht Club	10:10 AM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	
8/24/22	Phillipsdale Landing	1:10 PM	M	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.1	1.2	
8/24/22	India Point Park	1:40 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/24/22	Pawtuxet Cove	2:05 PM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	
8/31/22	Bullock Reach	8:30 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.2	2.0	2.1	
8/31/22	Conimicut Point	8:40 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
8/31/22	Point St. Bridge	9:30 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	

Table 45: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
8/31/22	India Point Park	9:35 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.2	1.0	1.1	
8/31/22	Phillipsdale Landing	9:55 AM	M	0.8	0.6	0.7	0.6	0.4	0.5	0.8	0.6	0.7	
8/31/22	Pawtuxet Cove	12:55 PM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
8/31/22	Pomham Rocks	1:12 PM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
8/31/22	Edgewood Yacht Club	1:24 PM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
9/7/22	India Point Park	8:05 AM	M	1.2	1.0	1.1	1.4	1.2	1.3	1.2	1.0	1.1	
9/7/22	Pomham Rocks	8:30 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.2	2.0	2.1	
9/7/22	Pawtuxet Cove	8:40 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/7/22	Conimicut Point	9:05 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.2	2.0	2.1	
9/7/22	Bullock Reach	9:15 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/7/22	Edgewood Yacht Club	10:10 AM	M	2.4	2.2	2.3	2.6	2.4	2.5	2.4	2.2	2.3	
9/14/22	Bullock Reach	8:05 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.6	2.4	2.5	
9/14/22	Conimicut Point	8:15 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.0	2.8	2.9	
9/14/22	Point St. Bridge	9:30 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
9/14/22	India Point Park	9:35 AM	M	2.4	2.2	2.3	2.6	2.4	2.5	2.4	2.2	2.3	
9/14/22	Phillipsdale Landing	10:00 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.4	2.2	2.3	
9/14/22	Pawtuxet Cove	1:00 PM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
9/14/22	Pomham Rocks	1:35 PM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
9/14/22	Edgewood Yacht Club	1:40 PM	M	2.6	2.0	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
9/21/22	Pomham Rocks	7:55 AM	M	1.6	1.4	1.5	1.8	1.6	1.7	1.6	1.4	1.5	
9/21/22	Pawtuxet Cove	8:10 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
9/21/22	Conimicut Point	8:30 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/21/22	Bullock Reach	9:00 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
9/21/22	Edgewood Yacht Club	9:50 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/21/22	Phillipsdale Landing	1:00 PM	M	1.2	1.0	1.1	1.4	1.2	1.3	1.2	1.0	1.1	
9/21/22	India Point Park	1:25 PM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
9/21/22	Edgewood Shoal	1:45 PM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
9/28/22	Bullock Reach	8:10 AM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.2	3.0	3.1	
9/28/22	Conimicut Point	8:25 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
9/28/22	Point St. Bridge	9:10 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.4	2.6	
9/28/22	India Point Park	9:25 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.0	2.8	2.9	
9/28/22	Phillipsdale Landing	9:45 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.4	2.2	2.3	
9/28/22	Pomham Rocks	1:00 PM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
9/28/22	Pawtuxet Cove	1:15 PM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.4	2.2	2.3	
9/28/22	Edgewood Yacht Club	1:35 PM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.6	2.4	2.5	
10/12/22	Bullock Reach	8:10 AM	M	4.8	4.6	4.7	4.4	4.2	4.3	4.8	4.6	4.7	
10/12/22	Conimicut Point	8:19 AM	M	4.6	4.4	4.5	4.6	4.4	4.5	4.4	4.4	4.4	
10/12/22	Point St. Bridge	9:00 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
10/12/22	India Point Park	9:12 AM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.2	3.0	3.1	
10/12/22	Phillipsdale Landing	9:37 AM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
10/19/22	Conimicut Point	8:25 AM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.4	3.2	3.3	
10/19/22	Bullock Reach	8:50 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	
10/19/22	Pawtuxet Cove	9:20 AM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	

Table 45: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2022

				1st Reading			*2nd Reading*			*3rd Reading*			
Date	**Site**	**Time**	**Meters or Feet**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Depth-disk no longer visible**	**Depth-just visible**	**Average**	**Comments**
10/19/22	Edgewood Yacht Club	9:30 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	
10/19/22	Pomham Rocks	9:40 AM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.6	3.4	3.5	
10/19/22	India Point Park	9:55 AM	M	2.2	2.0	2.1	2.2	2.2	2.2	2.2	2.0	2.1	
10/19/22	Phillipsdale Landing	10:20 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
10/27/22	Bullock Reach	8:05 AM	M	3.8	3.6	3.7	3.6	3.4	3.5	3.8	3.6	3.7	
10/27/22	Conimicut Point	8:20 AM	M	3.8	3.6	3.7	3.6	3.4	3.5	3.8	3.6	3.7	
10/27/22	Point St. Bridge	9:07 AM	M	3.6	3.4	3.5	3.8	3.6	3.7	3.6	3.4	3.5	
10/27/22	India Point Park	9:20 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.6	3.4	3.5	
10/27/22	Phillipsdale Landing	9:40 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
10/27/22	Pomham Rocks	10:19 AM	M	2.4	2.2	2.3	2.6	2.4	2.5	2.4	2.2	2.3	
10/27/22	Edgewood Yacht Club	2:00 PM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.6	2.4	2.5	
11/2/22	Conimicut Point	8:20 AM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.4	3.2	3.3	
11/2/22	Bullock Reach	8:35 AM	M	4.0	3.8	3.9	4.0	3.8	3.9	4.0	3.8	3.9	
11/2/22	Pomham Rocks	9:15 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
11/2/22	India Point Park	9:40 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
11/2/22	Edgewood Yacht Club	2:00 PM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
11/2/22	Pawtuxet Cove	1:15 PM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	
11/9/22	Bullock Reach	9:00 AM	M	4.4	4.2	4.3	4.2	4.0	4.1	4.4	4.2	4.3	
11/9/22	Conimicut Point	9:30 AM	M	4.2	4.0	4.1	4.0	3.8	3.9	4.2	4.0	4.1	
11/9/22	Point St. Bridge	10:15 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
11/9/22	India Point Park	10:25 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.2	3.0	3.1	
11/17/22	India Point Park	8:30 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.2	2.0	2.1	
11/17/22	Pomham Rocks	8:55 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.4	2.2	2.3	
11/17/22	Edgewood Shoal	9:08 AM	M	3.8	3.6	3.7	3.6	3.4	3.5	3.8	3.6	3.7	
11/17/22	Edgewood Yacht Club	9:10 AM	M	4.0	3.8	3.9	3.8	3.6	3.7	4.0	3.8	3.9	
11/17/22	Pawtuxet Cove	9:25 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.2	2.0	2.1	
11/17/22	Conimicut Point	10:05 AM	M	4.0	3.8	3.9	3.8	3.6	3.7	3.6	3.4	3.5	
11/17/22	Bullock Reach	10:15 AM	M	4.8	4.6	4.7	4.6	4.4	4.5	4.8	4.6	4.7	
11/23/22	Edgewood Yacht Club	8:19 AM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.4	3.2	3.3	
11/23/22	Bullock Reach	8:34 AM	M	4.2	4.0	4.1	4.2	4.0	4.1	4.4	4.2	4.3	
11/23/22	Conimicut Point	8:40 AM	M	4.8	4.6	4.7	4.8	4.6	4.7	4.8	4.6	4.7	
11/23/22	Pomham Rocks	9:05 AM	M	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2.2	
11/23/22	Point St. Bridge	9:25 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
11/23/22	India Point Park	9:32 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
11/23/22	Phillipsdale Landing	9:56 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
11/29/22	Bullock Reach	9:55 AM	M	4.2	4.0	4.1	4.2	4.0	4.1	4.4	4.2	4.3	
11/29/22	Conimicut Point	10:05 AM	M	4.2	4.0	4.1	4.4	4.2	4.3	4.2	4.0	4.1	
11/29/22	Pawtuxet Cove	10:25 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	4.0	3.8	3.9	
11/29/22	Edgewood Yacht Club	10:32 AM	M	4.4	4.2	4.3	4.4	4.2	4.3	4.4	4.2	4.3	
11/29/22	Pomham Rocks	10:40 AM	M	4.6	4.4	4.5	4.4	4.2	4.3	4.6	4.4	4.5	
11/29/22	India Point Park	10:55 AM	M	4.8	4.6	4.7	4.6	4.2	4.4	4.6	4.2	4.4	

Table 45: Bay Secchi Depth Water Column Transparency Data