2021 Annual Water Supply Monitoring Report

Location:

Byram Lake
Byram Lake Road
Towns of Bedford and
North Castle
Westchester County, New York

Prepared for:

The Village of Mount Kisco
104 Main Street
Mount Kisco, New York 10549

LaBella Project No. CZ70707.21

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1.0 INTRODUCTION AND PRINCIPAL 2021 FINDINGS

Byram Reservoir is a primary water supply source for the Town/Village of Mount Kisco (the Village). As part of programming to manage the long-term uses of this critical aquatic and drinking water resource, LaBella Associates (labella), formerly Chazen, monitors the reservoir and most tributaries entering the reservoir. Byram Reservoir covers approximately 158 acres in the Towns of North Castle and Bedford, Westchester County, New York (Figure 1). This monitoring program has been conducted since 2002 with some modifications made over time.

Reservoir conditions were monitored three times during 2021 by LaBella, in the Spring, Summer and the Autumn. There are two primary purposes for water quality monitoring at Byram Reservoir:

1. Identify any water quality contaminants that could impact the raw water intake of drinking water to the Town/Village of Mt. Kisco water public water supply; and,
2. Continue to manage Byram Reservoir as a productive clean, and successful recreational fishing resource.

The record identifies generally stable lake aquatic conditions. Nitrogen concentrations remain low and phosphorous is moderate-to-low, which together with Secchi Disk and chlorophyll A records suggest the lake remains in a transitional oligotrophic/mesotrophic category, one stage below a most pristine oligotrophic water body. Moderately-elevated total phosphorous enters the reservoir from some tributaries. Continued zooplankton species diversity within the reservoir suggest a balanced fish population.

Electrical conductivity, sodium, and chloride (salt) concentrations in the reservoir rose steadily for several years before stabilizing somewhat after 2015, with sodium in the reservoir now generally between 35 to 40 mg/L. A single sodium sampling in 2019 exceeded 40 mg/L for the first time. In 2021, however, all reservoir sodium results were between 33 and 35 mg/L. The NYSDOH sodium guidance is 20 mg/L for those on severely restricted sodium diets. Sodium concentrations in select tributaries has continued to climb. Modest TKN (organic nitrogen plus ammonia) increases were noted in reservoir and tributary samples in 2014 and 2015 and have remained elevated. One reservoir sample (BL-3S, Summer) identified elevated total phosphorus, however, soluble reactive phosphorus was much lower. Similar results for many of the tributaries were also noted in 2021. These results suggest that total phosphorus concentrations may be adversely affected by particulate material captured in sample vessels, while soluble reactive phosphorus is not (as the water is filtered prior to that analysis). Nevertheless, soluble reactive phosphorus concentrations in 14 of 34 tributary samples exceeded the NYSDOH guidance value. These data are within historic ranges for this nutrient. LaBella notes that some of the Spring 2021 sample aliquots for the BL-3M location were lost in transit, so only results for select analyses are available.

During 2021, the water level in Byram Reservoir was near or at spillway capacity during the Spring and Fall site visits and at lower levels during the Summer site visit. Any existing Eurasian milfoil was not readily visible to LaBella field staff during the Spring and Fall, and was noted in previously-observed areas during the Summer visit. This invasive aquatic plant

has been noted previously in shallow water areas and was particularly evident in 2016 when reservoir water levels were unusually low.

The year began with moderate rainfall patterns but became dry for extended periods as the summer progressed, with some significant rainfall in early Autumn. On the basis of stream gaging occurring on tributary BLT-1, an average volume of flow entered Byram Lake from this tributary in 2021. Appearing to correlate to this precipitation record, reservoir water quality also became more basic (higher pH) and exhibited modestly higher electrical conductivity and alkalinity during this dry season period.

LaBella collected supplemental iron and manganese samples during each 2021 sampling event to help the Village assess these compounds in the public water system. Some tributaries contributed elevated levels but the open reservoir water sample results were largely below detections limits, suggesting dilution or sequestering of iron and manganese in the reservoir environment.

1.1 Project History

Chazen, now LaBella Associates, was retained in 2007 to extend prior reservoir monitoring and analysis initiated in 2002 to monitor this public water supply. With now more than fifteen years of available water quality data, the record allows assessment of trends, and LaBella has over time recommended modifications to the sampling program to control monitoring and laboratory analytical costs.

This report summarizes reservoir and tributary conditions noted through 2021. For completeness, we include each year a review of data collection methods and a summary of analytical results before proceeding with water quality trend observations, management recommendations, and conclusions.

1.2 Recent Modifications to the Sampling Program

One program modification occurred in 2021. Analysis of dissolved iron and manganese at both reservoir and tributary locations during all three 2021 sampling events was performed. This analysis was added at the Village's request to obtain additional data following detections of these metals at the Village 's drinking water intake during routine sampling. Field-filtered samples were obtained for these analyses.

No other new monitoring elements were introduced in 2021. Several modifications introduced within the past 5 years were sustained in 2021:

- Three routine seasonal sampling events were completed in 2021 during periods following at least 3 days without rain. The Spring site visit was delayed due to COVID-19 schedule complications and the Summer and Autumn sampling events occurred at appropriate times.

- In 2018, laboratory analysis of calcium was added to the ongoing lake and tributary monitoring program. Calcium is a watershed acid-buffering component and an essential nutrient for zooplankton survival.

- In 2017, the sampling program was simplified by removing first flush sampling events which had previously also been conducted in Spring, Summer, and Autumn. The data were not markedly different from the dry weather sampling data, program cost savings were realized for Mt. Kisco residents, and the dry-weather sampling data continue to provide broadly-representative quality data sufficient to track long-term reservoir quality trends. Open reservoir water sampling from location BL-1 was also discontinued in 2017 since it is nearest to the Village's water inlet pipe from which Mt. Kisco collects its own periodic water quality samples.

As climate change and demand changes occur, Byram Reservoir monitoring may wish to track precipitation and air temperature along with the reservoir and tributary water quality samples. Water volumes withdrawn by the Village and reservoir stage relative to the spillway could also contribute to understandings of reservoir water budget and retention time as it may influence stability of water quality. LaBella is not aware whether these water budget monitoring elements were implemented by water department personnel in 2021.

1.3 Sampling Locations

Reservoir sampling and monitoring in 2021 was conducted at open-water reservoir locations near the reservoir midpoint and near the spillway (BL-2 and BL-3, respectively) and at the outlets of twelve tributaries entering the reservoir. Figures 1-3 show the approximate sampling locations. Stations labeled "BL" (Byram Lake) are in the open reservoir, and stations labeled "BLT" (Byram Lake Tributaries) are where tributaries enter the reservoir.

The former reservoir sampling location BL-1 is still shown on Figures 1-3 for reference. Figure 3 shows the approximate watershed boundaries for each tributary. The BLT-4 watershed may extend further east of Route 22 to include a small saddle area and pond.

1.3.1 Byram Reservoir Sampling Locations

Routine open water sampling during 2021 occurred at reservoir sampling location (BL-3). The location is reached by boat using GPS coordinates to ensure sampling from an approximately consistent location at the other end of the reservoir from the Village's water intake pipe. This sampling location lies near the dam in the southern portion of the lake where water depth is approximately 15 feet. Zooplankton sampling is the only open lake water sample that continues to occur at BL-2, as the most centralized location in the lake since this sampling is not conducted by the Village at the north end of the lake.

1.3.2 Tributary Sampling Locations

There are twelve tributary sampling stations surrounding Byram Reservoir. Brief descriptions of each tributary are repeated below from prior reports.

BLT-1 – Tributary BLT-1 delivers water captured via a stone sluiceway transferring water from a watershed area west of Byram Reservoir formerly entering the Byram River south of and downstream of the reservoir. Sampling occurs near an operational flow weir.

BLT-2 – The tributary BLT-2 sampling station is located approximately 0.15 miles east of BLT-1 at a culvert which discharges into the southeast corner of the reservoir adjacent to Byram

Lake Road via three 36-inch corrugated metal pipes (CMPs). Water flow in this tributary is intermittent.

BLT-3 – The tributary BLT-3 sampling site is an ephemeral drainage channel located approximately 0.19 miles north of BLT-2. It is often dry during summer periods.

BLT-4 – Tributary BLT-4 is an intermittent stream located approximately 0.25 miles north of BLT-3 with its outlet at the base of a steep slope. The stream is sampled at the outlet of a 48-inch concrete culvert passing beneath Byram Lake Road. It is seldom completely dry.

BLT-5 – Tributary BLT-5 is an ephemeral stream located approximately 0.20 miles north of BLT-4. This stream was formerly piped underneath Byram Lake Road by a six-inch CMP. This CMP was replaced in early spring 2012 with a 10" black corrugated HDPE (plastic) pipe. Sampling occurs at the outlet of the HDPE pipe.

BLT-6 – Tributary BLT-6 is a perennial stream located approximately 0.15 miles north of BLT-5. This stream is piped underneath Byram Lake Road by a culvert at the base of a steep slope. The headwall of this culvert consists of a rock retaining wall approximately 10 feet high by 15 feet wide. Water quality is sampled in pools below the retaining wall.

BLT-7 – Tributary BLT-7 is a perennial stream located approximately 0.30 miles north of BLT-6. This stream is piped underneath Byram Lake Road and flows approximately 150 more feet before discharging into the northeastern portion of the reservoir. Monitoring occurs near the outlet of the man-made stone channel conducting this tributary beneath Byram Lake Road.

BLT-8 – Tributary BLT-8 is an intermittent stream located approximately 0.13 miles north of BLT-7 in the northeast portion of the reservoir. The stream is piped underneath Byram Lake Road by a 24-inch corrugated metal pipe emptying into a large deep pool used for sampling formed behind a rock weir approximately 10 feet from the culvert.

BLT-9 – Tributary BLT-9 originates in an ephemeral spring located approximately 0.06 miles northwest of BLT-8 near the northeastern shore of the reservoir. The spring is located adjacent to Byram Lake Road which emerges approximately two feet from the edge of the road, and is used as a sampling location.

BLT-10 – Tributary BLT-10 is a marsh headwater stream located approximately 0.15 miles northwest of BLT-9 at the northern end of the reservoir. The stream is conveyed underneath Byram Lake Road by a stone culvert approximately four feet wide by one foot high, the outlet of which is used as a sampling location,

BLT-11 – Tributary BLT-11 is a marsh headwater stream located approximately 0.17 miles northwest of BLT-10 in the northwest portion of the reservoir. This tributary is sampled on the north side of Byram Lake Road to avoid collecting a sample mixed with open reservoir water.

BLT-12 – Tributary BLT-12 is an ephemeral stream located approximately 0.13 miles southwest of BLT-11. The sampling area lies near the boat launch, adjacent to the pump house access driveway. It is not clear where the tributary originates, but it passes through an eight-inch iron pipe before flowing another approximately 50 feet before discharging into the reservoir.

2.0 SAMPLING METHODS AND SCHEDULE

LaBella completed water condition sampling at the Byram Reservoir and twelve surrounding tributaries during 2021. Descriptions of the sampling methodologies are reviewed below. The 2021 monitoring program included sampling visits to each tributary during the spring, summer and autumn, during dry conditions, for a total of three tributary monitoring events. Open reservoir water quality during stable (dry weather) was also conducted during these seasons.

2.1 Sampling Schedule

The 2021 sampling schedule met the revised objectives of reservoir monitoring during stable periods several days after any significant rain, focusing on water quality conditions minimally influenced by short-term first-flush inflows.

The following sampling events occurred in 2021.

Spring Monitoring – delayed due to COVID scheduling complications
June 3, 2021 (reservoir and tributaries)

Summer Monitoring
July 26, 2021 (reservoir and tributaries)

Autumn Monitoring
October 13, 2021 (reservoir and tributaries)

Steam stage data from the BLT-1 monitoring station was downloaded during each sampling visit.

2.2 Reservoir Water Quality – Field Sampling Data

Select quality data are collected using field sampling equipment.

Temperature, dissolved oxygen, conductivity, and pH are recorded at one meter depth intervals at the BL-3 location using a YSI multi-parameter field probe lowered through the water column. LaBella records the location and depths using a period (.) to separate the location from the depth; as an example, sample BL-3.3 is collected from the BL-3 location at depth of 3 meters. Secchi disk readings document water clarity by lowering the regulation disk into the water and recording the depth at which the disk was no longer visible and noting also the depth at which the disk became visible upon return up through the water. The average of the two sighting depths is recorded as the Secchi record.

Field parameter measurements are recorded on data sheets completed in the field at the time of measurement.

2.3 Reservoir Water Quality – Laboratory Analyses

Select water quality samples are collected from the reservoir for laboratory analysis.

Laboratory analyses include alkalinity, ammonia, calcium, nitrate, total Kjeldahl nitrogen, total phosphorus, soluble reactive phosphorus, sodium, chloride, Chlorophyll A and Biochemical Oxygen Demand (BOD). Dissolved iron and manganese were also added in 2021.

Laboratory samples are collected during the field sampling site visits described above. At the BL-3 location, samples are collected from near the water surface (BL-3S) and at five to six feet off the lake bottom (BL-3M).

The shallow (BL-3S) water samples are collected by manual direct submergence of laboratory-supplied bottleware. For the deeper BL-3M sample, a Van Dorn sampler is used, using a messenger and line to trigger collection of sample water from the desired water depth, then poured directly into laboratory-supplied bottleware.

After collection, water samples are placed in coolers, packed with ice, and shipped overnight via Fedex to the receiving laboratory. Analytical laboratory services have been provided by Upstate Freshwater Institute Analytical Laboratory (UFI) located in Syracuse, New York and Aqua Environmental Laboratory (Aqua) located in Newtown, Connecticut. Aqua has now been acquired by York Analytical Laboratories.

Composite zooplankton sampling has historically been scheduled for the Summer sampling event and accordingly occurred during our July 2021 sampling event. Zooplankton sample aliquots are collected using a 12" Wisconsin-Style 63 µm mesh plankton net and cup, raised at a steady rate through the water column vertically from approximately one meter above the bottom, to the surface. The full-column composite samples are preserved in ethanol and shipped to UFI for identification and enumeration. Rotifers, Cladocera, and adult copepods are identified to the lowest practicable taxonomic level (usually genus). Immature copepods are grouped into *nauplii* and *copepodid* categories. Upstate Freshwater Institute calculates the average densities of individual taxa and estimated biomass based upon published values and the reported collection rate. The annual zooplankton sample is routinely collected from the BL-2 location.

2.4 Tributary Water Quality – Field and Laboratory Analyses

Temperature, pH, conductivity, and dissolved oxygen field parameters are measured at each tributary using a YSI Pro Plus Quattro meter and recorded in the field log.

Laboratory samples are collected for analysis of turbidity, ammonia, calcium, nitrate, total Kjeldahl nitrogen, total phosphorus, soluble reactive phosphorus, sodium, chloride, alkalinity and total petroleum hydrocarbons. As with the reservoir, dissolved iron and manganese were added to this sampling program in 2021.

Sample bottles supplied by the laboratory are filled by submerging them below the flowing water surface. Filled bottles are placed in coolers with ice and shipped overnight to either UFI or Aqua.

2.5 Tributary Flow Gaging Stations

2.5.1 BLT-1 Gaging Station

An automated datalogging sensor station has been maintained at BLT-1 for many years, situated approximately 200 feet upstream from where the tributary enters the Reservoir. The station currently includes a WL-400 water level sensor and WQ-Cond conductivity sensor, each sending data to a GL-500 datalogger. Readings are recorded every four hours. The conductivity sensor can become subject to instrument fouling when flow volumes stagnate so needs routine cleaning.

The field station is powered by an SP-102 (5 watt) solar panel and 12 volt battery system. All components are made by Global Water and the data are processed via Global Logger II software. Data are downloaded manually during site visits using a serial interface with a Windows Mobile-equipped handheld PC.

LaBella has been prepared to gage flows in BLT-1 during any site visits if flow is observed topping the flume bar but this condition was not observed during 2021 site visits. It is unlikely to be observed in the future, since LaBella visits are now timed for dry-weather periods rather than first-flush periods when higher flows overtopping the flume bar occur.

The logging/sensing equipment was found to be operable at each of the three site visits in 2020, with only typical cleaning and/or re-calibration required, with one exception. The conductivity sensor was found to be non-functional during the summer site visit and was removed for servicing. It was re-installed during the October site visit and is again logging data.

2.6 Quality Assurance Measures

Quality assurance measures are taken to ensure the quality of field measurements and laboratory sample data. These measures included calibrating field instruments prior to collecting field measurements, and ensuring that all samples collected for laboratory analysis are secured in properly-cooled, laboratory-provided shipping containers following standard chain-of-custody tracking procedures.

Laboratories engage in standard Quality Assurance methods including analyzing blanks, standards, and reference samples in accordance with their State certification.

3.0 SAMPLING RESULTS AND DISCUSSION

Results from 2021 sampling conducted in Byram Reservoir and at its contributing tributaries are discussed below. Data are summarized in Appendices B (Reservoir) and C (Tributaries) or within text sections below. Historic data are found in Appendix D.

3.1 Reservoir Water Quality Review

Overview: Water quality data collected in 2021 from Byram Reservoir identify generally stable aquatic conditions. Nitrogen and phosphorus concentrations remain generally moderate to low. These data along with Secchi Disk and chlorophyll A records suggest the lake remains in a transitional oligotrophic/mesotrophic category, below that of a pristine, fully-oligotrophic water body.

Electrical conductivity, sodium, and chloride (salt) impacts rose through 2015 but have appeared more stable over the past few years. In 2019, a sodium result exceeded 40 mg/L for the first time, in one sample. In 2021, all reservoir sodium results were between 33 and 35 mg/L. As noted in Section 3.2.2, sodium concentrations in select tributaries had also climbed primarily through 2015.

Extensive patches of Eurasian milfoil were observed in the reservoir in 2016 during a period of low water stage. During 2017 through 2021 visits, Eurasian milfoil was less noticeable, perhaps due to recent deeper water conditions during most visits. During 2021 site visits, LaBella did note some milfoil present in shallower areas, mostly along the eastern and northwestern shores of Byram Lake during the summer (July) sampling event when water levels were lower. The locations of observed milfoil mats appear consistent with previous observations.

Detail: The following sections review individual analytes evaluated in 2021 at the BL-3 location with comparison to the historic data record; field and laboratory analytical data are posted in Appendix B or herein.

Field Data

pH – During 2021, pH levels in the reservoir were mostly basic, with values over the year ranging from 6.45 to 8.40 (see Appendix B, Table 1). Compared to the long-term average (7.63), the average pH value during 2021 (7.77) was slightly above average, and above the pH values noted in the tributaries (Appendix C, Table 1). A potential acid-buffering source for the reservoir, discussed previously, has been road base material from the adjoining gravel road which Labella had previously found to contain marble fragments. The more basic (high pH values over 8) tend to occur during periods when watershed conditions were generally quite dry, suggesting water pH is influenced by groundwater baseflow entering the reservoir via bottom seeps rather than from tributaries or road runoff.

Most aquatic organisms are best suited to pH values between 6.5 and 9.0. Potable water quality exceeding a pH of 8.5 (e.g. more basic) may have an unpleasant soda taste and slippery feel and precipitate carbonate deposits.

Temperature – Open water temperatures ranged from 14.4 to 22.3˚C at BL-3 during 2021. The historic record suggests the temperatures observed during 2021 were in normal seasonal ranges (Appendix B, Table 2). No upward trends perhaps attributable to climate change are noted.

Conductivity – Reservoir conductivity values ranged between 405.7 and 445.9 µS/cm with an average of 421.1 µS/cm (Appendix B, Table 3), a level higher than the average since 2002 (318 µS/cm). July 2021 electrical conductivity data were higher than during the other two 2021 sampling visits, correlating with a rise also in chloride, discussed below. Sources of conductivity could include road salt and dissolved minerals associated with hardness and alkalinity; it is unknown why these influences would be elevated this year.

Conductivity values in Byram Reservoir tributaries (Appendix C, Table 3) are generally higher than in the Reservoir itself, and the highest tributary conductivity values typically occur during dry (low flow) periods. The lower average reservoir conductivity relative to the tributaries suggests biological uptake of dissolved constituents or other factors.

Dissolved Oxygen (DO) – DO concentrations in the reservoir varied between 3.73 and 10.49 in 2021, with little variance noted between the surface and bottom during each event (Appendix B, Table 4). Oxygen solubility is inversely proportional to water temperature so DO levels are typically higher when water temperatures are cooler. 12 of 13 DO values recorded in 2021 were above 5.0 mg/L, favorably remaining within the desirable NYSDEC range for minimum daily average for ecological functioning waterbodies (>5.0 mg/L) and Class A surface waters used for drinking water (>4.0 mg/L). The 2021 data are consistent with previously-recorded reservoir values.

Turbidity – The laboratory turbidity data (Appendix B, Table 5) were below 2.0 NTU for all but one of the 2021 samples, indicating relatively clear water conditions during 2021 sampling events. The values were similar to those previously reported. Historically, average turbidity in the reservoir has remained below 5 NTU. Occasional elevated results likely reflect disturbance of lake bottom sediments or inadvertent capture of floating material during sample collection.

Secchi Disk – Secchi disk readings (Appendix B, Table 6) ranged from 2.89 meters to 3.20 meters during 2021. These readings are within historic ranges. Figure 4 provides a summary of these data.

Laboratory Data:

Table 1: Total Phosphorus, Byram Reservoir, 2021

Location Name	Total Phosphorus (µgP/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	15.1	**23.2**	8.8
BL-3M	14.6	18.7	13.7

Total Phosphorus – Total phosphorus data recorded in 2021 (Table 1) are consistent with historical data for the lake, averaging just below the New York State Phosphorous Quality Guidance value of 20 µgP/L. (Appendix D1, Table 12). Total phosphorus includes particulate and dissolved forms of the element.

Table 2: **Soluble Reactive Phosphorus, Byram Reservoir, 2021**

Location Name	Soluble Reactive Phosphorus (µgP/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	4.2	14.1	3.5
BL-3M	4.0	3.6	4.5

Soluble Reactive Phosphorus – Soluble reactive (dissolved) phosphorus concentrations (Table 2) averaged 5.65 µgP/L in 2021, lower than the long term average (9.87 µgP/L) yet consistent with historic values (Appendix D1, Table 13), which range from <0.01 to 19.96 µg/L at the BL-3 location. Dissolved phosphorous is the nutrient fraction of total phosphorus that is available for uptake by aquatic plants.

Table 3: **Nitrate, Byram Reservoir, 2021**

Location Name	Nitrate (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	<0.5	<0.5	<0.05
BL-3M	--	<0.5	<0.05

Nitrate – Nitrate was not detected in any of the 2021 reservoir samples (Table 3), meeting the New York State Department of Health nitrate standard for public water systems (10 mg/L). Nitrate has remained essentially undetected in the reservoir since 2002, with only occasional trace level concentrations reported (Appendix D1, Table 10).

Most primary productivity (plant growth) in freshwater systems is limited by phosphorus, however, nitrogen may also be a limiting nutrient in Byram Reservoir. Small additions of nitrate could result in enhanced growth of algae or rooted plants. Some algae species have been implicated in Hazardous Algae Blooms (HABs) leading to wildlife toxicity and taste and odor problems in drinking water supplies. HABs are an emerging regional water quality concern, therefore nitrogen sampling remains a prudent component of the Byram Reservoir monitoring program.

Table 4: TKN, Byram Reservoir, 2021

Location Name	Total Kjeldahl Nitrogen (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	0.88	< 0.6	0.73
BL-3M	--	< 0.6	0.68

Total Kjeldahl Nitrogen (TKN) – TKN is the sum of organic nitrogen and ammonia and is most commonly used to evaluate total nitrogen in wastewater discharges. TKN readings below

0.5 mg/L are typically considered optimal for lakes. TKN concentrations during the 2021 sampling period ranged from non-detectable (< 0.6 mg/L) to 0.88 mg/L (Table 4). While low, these results are near the higher end of the historic record (Appendix D1, Table 11) and have been gradually rising since 2014, perhaps correlated to increased phytoplankton activity.

Table 5: Ammonia, Byram Reservoir, 2021

Location Name	Ammonia ($mgNH_3/L$)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	< 0.0357	< 0.015	0.9993
BL-3M	--	< 0.015	< 0.0415

Ammonia – Ammonia concentrations within Byram Reservoir ranged from < 0.010 to 0.9993 mg/L during 2021 (Table 5), and were mostly below average relative to the historic record (Appendix D1, Table 9). Keeping ammonia levels below 0.3 mg/L may help alleviate algal blooms. LaBella notes that the concentration of ammonia in the BL-3S sample from October (0.9993 mg/L) is higher than typically seen in this location, and is likely anomalous.

Relative to the reported TKN concentrations, the lower ammonia levels and absence of detected nitrate suggest a natural progression of organic nitrogen to nitrate through microbial action. The absence of detectable nitrate suggests once available it is consumed by aquatic plants or converted back to elemental nitrogen by microbes. A gradual increase in TKN since 2014 is unexplained but appears to be being managed by ecological processes within the lake.

Table 6: Sodium, Byram Reservoir, 2021

Location Name	Sodium (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	35.4	33.4	34.1
BL-3M	--	33.5	34.6

Sodium – Between 2013 and 2015 sodium concentrations in Byram Reservoir steadily increased approximately 10 mg/L, but have remained somewhat stable during the past few years. The mechanism for increase is considered in Section 3.2. NYS Department of Health recommends that people with severely restricted sodium diets not consume water with sodium concentrations greater than 20 mg/L (those on moderately-restricted sodium diets are advised not to consume water with concentrations greater than 270 mg/L). While 2019 was the first year that a sodium sample exceeded 40 mg/L, for the second straight year in 2021, no samples exceeded this concentration.

Table 7: Chloride, Byram Reservoir, 2021

Location Name	Chloride (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	81.8	85.4	80.9
BL-3M	--	85.3	77.4

Chloride – Like sodium, chloride concentrations in Byram Reservoir have been rising. No values approach the NYSDOH drinking water standard of 250 mg/L. Concentrations detected in 2021 ranged between 77.4 and 85.4 mg/L. This is a meaningful increase over time, since in 2010, chloride concentrations were in the range of 50 to 58 mg/L. The most likely source of increased sodium and chloride in Byram Reservoir is from road salt usage within the watershed. Stoichiometric analysis of sodium and chloride levels suggests the reasonable source of both compounds is NaCl (halite, or common salt). A chloride increase in July correlates with a rise also in electrical conductivity noted above, although Table 6 does not note a correlated sodium increase, suggesting a potential alternate unknown chloride source.

Table 8: Alkalinity, Byram Reservoir, 2021

Location Name	Alkalinity (mg/L $CaCO_3$)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	46	48	44
BL-3M	--	46	44

Alkalinity – Alkalinity concentrations in 2021 were approximately equivalent to previous alkalinity data values, which have generally varied in the range of 35 to 50 mg/L over time (Appendix D1, Table 7). All concentrations were favorably above 20 mg/L which is a threshold minimum value above which lakes are generally considered to be well buffered and unlikely to succumb to acidification.

Table 9: BOD_5, Byram Reservoir, 2021

Location Name	BOD_5 (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	1.33	1.31	< 3.0
BL-3M	1.43	1.32	< 3.0

Biochemical Oxygen Demand, 5-Day (BOD_5) – BOD_5 findings in 2021 were generally similar to previous data, and suggest inflows of organic matter remain stable. BOD_5, along with phosphorus, Chlorophyll A, and related nitrogen compounds are used to describe the trophic status of Byram Reservoir.

Table 10: Chlorophyll A, Byram Reservoir, 2021

Location Name	Chlorophyll A (µg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	4.0	5.2	5.9
BL-3M	4.7	5.0	5.2

Chlorophyll A –Chlorophyll A is a pigment associated with photosynthetic activity and used as an indicator of algal biomass. Sampling results from 2021 ranged between 4.0 and 5.9 µg/L, falling below average relative to historic concentrations (Appendix D, Table 16). Chlorophyll A levels within a range of 2.6 to 20 µg/L are generally indicative of a mesotrophic lake environment. Mesotrophic lakes are typically characterized by relatively clear water and

some tendency for development of oxygen-deprived conditions at depth (Carlson et al, 1996). These are conditions which have been previously noted in deeper areas of this lake (BL-1 and BL-2 locations).

Table 11: Calcium, Byram Reservoir, 2021

Location Name	Calcium (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	23.2	18.0	20.7
BL-3M	--	18.1	20.6

Calcium – Calcium is an essential aquatic nutrient for zooplankton survival and a component of water hardness. Calcium concentrations ranged from 18.0 to 23.2 mg/L in 2020, indicating Byram Lake has some hardness and contains sufficient calcium (>2.5 mg/L) to support zooplankton populations. Calcium was added to the monitoring program in 2018 so only limited historic data are available for comparison (Appendix D Table 17). The average calcium concentration in 2021 was 20.1 mg/L and the overall average concentration since 2018 was 24.7 mg/L.

Table 12: Dissolved Iron, Byram Reservoir, 2021

Location Name	Dissolved Iron (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	0.01	0.02	< 0.278
BL-3M	--	0.02	< 0.278

Iron – Iron was added to the monitoring program in 2021 at the Village's request due to detections of iron at the Village water intake near the north end of Byram Lake. Iron was only detected in Spring and Summer at trace concentrations below the NYSDEC groundwater standard (0.300 mg/L) and was non-detectable in the Fall samples.

Table 13: Dissolved Manganese, Byram Reservoir, 2021

Location Name	Dissolved Manganese (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	0.02	< 0.005	< 0.005
BL-3M	--	< 0.005	0.0336

Manganese – Manganese was added to the monitoring program in 2021 at the Village's request due to detections of manganese at the Village water intake near the north end of Byram Lake. Manganese was only detected twice at trace concentrations below the NYSDEC groundwater standard (0.300 mg/L) and was non-detectable in all other samples.

Zooplankton – A zooplankton sample was collected at the BL-2 location on July 26, 2021. The data are presented in Appendix E. During the 2021 sampling event, a total of eleven species of zooplankton were identified. Species diversity during this sampling event was greatest in the Rotifer and Copepod Orders. Total biomass remains above the depleted levels recorded in 2008 and 2010 when planktivorous fish populations were high. Recovery of zooplankton

likely reflects the corrected balance between carnivorous and planktivorous fishes in the lake although total zooplankton biomass between 2016 and 2021 remain below peak biomass values noted in 2014 and 2015.

Zooplankton species most consistently noted in Byram Reservoir over the past decade include the Cladocera *Ceriodaphnia*, the Copepod *Cyclopoid copepodid,* the Nauplii, the Rotiferas *Keratella cochlearis* and *Polyarthra.* The Cladocera *Bosmina longirostris* has been present in every year since 2008 (except 2009 and 2018). Numerous other species have been present intermittently over this period of record (see Tables 1 and 2 in Appendix F). The continued presence of larger zooplankton (e.g. Cyclopoid copepodid) is the major contributor to the current zooplankton biomass density.

Milfoil – Eurasian milfoil was first added to this annual survey report when LaBella observed extensive Eurasian milfoil mats in Byram Reservoir in 2017 although limit prior presence is likely. Since 2016, LaBella has added visual scanning for obvious milfoil during routine sampling visits. Little to no obvious milfoil was observed on the lake water surface during the Spring and Fall 2021 site visits. Reservoir water levels were also generally higher during these visits than those in 2016 when the extensive milfoil presence was noted. Water levels were lower during the summer (July 2021) visit, and some milfoil was noted in shallower areas of Byram Lake, mostly along the eastern and northwestern shores in areas previously documented.

3.2 Tributary Water Quality and Flow Review

3.2.1 Tributary Flow Review

Tributary BLT-1 is the only tributary where flow is currently being continually estimated. The BLT-1 tributary flow gaging station was established in 2009. The conductivity sensor was found to be non-functional during the summer site visit and was removed for servicing. It was re-installed during the October site visit and is again logging data. Historical and recent BLT-1 flow gaging data from 2021 are discussed here and plotted in Appendix A.

The flow weir in BLT-1 currently has an upper accuracy limit of 2.25 cubic feet per second (CFS), above which point the water depth overtops the v-notch weir installed in the sluiceway. When flow exceeds the capacity of the weir, LaBella uses Manning's equation factors to estimate the higher flows. Appendix A contains separate plots both showing depth (stage) of water in the sluiceway, and an estimate of flow. Water was observed actively flowing through the sluiceway flume during all three of the 2021 sampling visits.

Electrical conductivity data gathered during January through July 2021 from BLT-1 were variable, with an approximate average of 386 µS/cm. Peak conductivity periods reaching approximately 550 to 650 µS/cm coincide with winter months, suggesting road salt runoff from local roads draining into BLT-1. Similar peaks are evident during many prior winters, although there are interruptions in the historic data record due to difficulties keeping this sensor probe operational. Manually collected conductivity data confirm accuracy of the sensor probe data when operational.

3.2.2 Tributary Water Quality Review

Overview: Water quality data collected in 2021 from tributaries entering Byram Reservoir identify generally stable conditions. Sodium concentrations continue to rise in select tributaries (see Figure 5), correlating positively also with increasing conductivity. The steepest sodium increases are in eastern shore tributaries and (historically) in BLT-12 to the north. A modest increase in tributary Phosphorus levels was noted in the Fall of 2019, concentrations returned to near the historical average in 2020, and have shown some increase again in 2021. LaBella notes that soluble reactive phosphorus concentrations are significantly lower than total phosphorus, suggesting that elevated total phosphorus connections may results at least partially from elevated sample turbidity.

The data collected during 2021 are posted in Appendix C or within the text below.

Details: Below are brief discussions of individual quality parameters.

Field Data

pH – During 2021, tributary pH values ranged from 6.92 to 8.35 S.U., with an average of 7.65 S.U (Appendix C, Table 1). These data are near neutral to slightly basic. The available historic pH data record identifies consistent findings (Appendix D, Table 18). Tributary pH values are typically more acidic than reservoir values, suggesting that reservoir pH values are potentially buffered by sediment from the adjoining road and/or by bedrock or substrate at the lake bottom.

Temperature – Water temperatures recorded in 2021 (Appendix C Table 2) were within previously recorded ranges, reflecting seasonal variance in air temperatures.

Conductivity – Electrical conductivity values ranged from 131.3 to 1,800 µS/cm (Appendix C, Table 3). In general, the higher conductivity readings are typically observed in tributaries BLT-2 through BLT-8 which drain sub-watersheds containing Interstate 684 and local roads. A trend of rising conductivity values has been observed since 2012 (Appendix D, Table 20), consistent with increased electrical conductivity values recorded in the reservoir.

Tributaries BLT-5, BLT-8 and BLT-12 tend to have the most elevated conductivity values. The most likely source of increased conductivity is road salt. Conductivity values in most tributaries were again higher in 2021 than in the open reservoir (c.f. Appendix B, Table 3), suggesting inflows may be influencing lake concentrations.

Dissolved Oxygen – The dissolved oxygen levels recorded in 2021 (Appendix C, Table 4) are consistent with historic data. The lower DO levels coincide as expected with periods of warmer or more stagnant stream flow. Limited oxygen deficient conditions were noted only in Tributary BLT-2 in October 2021.

Turbidity – Samples were collected during 2021 for laboratory analysis of turbidity (Appendix C, Table 5). Turbidity readings ranged from 0.5 to 41.9 NTU. One sample, from Tributary BLT-9 in July 2021, exceeded the instrument's measurement range. LaBella notes that streamflow was very low during this event, resulting in disturbance and capture of streambed sediment

in sample vessels. This result is therefore not representative of actual tributary water quality, as flow was observed to be visually clear prior to sampling efforts. Tributary turbidity data were consistent with historic data.

Laboratory Data

Additional tributary analytes evaluated by laboratory analysis rather than field instrumentation are described below.

Table 14: Total Phosphorus, Byram Reservoir Tributaries, 2021

Location Name	Total Phosphorus (µgP/L)		
	6/2/2021	7/26/2021	10/13/2021
BLT-1	**34.9**	**66.5**	**30.6**
BLT-2	**42.4**	**142.8**	**52.9**
BLT-3	**61.8**	**47.7**	**110.8**
BLT-4	**43.0**	**45.9**	13.6
BLT-5	**24.6**	**28.7**	16.7
BLT-6	**31.1**	**51.6**	**32.4**
BLT-7	18.4	18.6	**27.7**
BLT-8	17.1	**40.9**	16.2
BLT-9	--	**492.8**	**375.5**
BLT-10	**45.1**	**46.7**	**44.4**
BLT-11	**72.7**	**102.2**	**22.4**
BLT-12	**56.0**	**431.5**	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Total Phosphorus – Phosphorus concentrations recorded in 2021 included many events with phosphorus data exceeding the New York State water quality guidance value of 20 µg/L. The data, however, appear to be consistent with or only marginally above the historic record for this reservoir (Appendix D, Table 27). Median tributary phosphorus values are also similar to those observed in the reservoir (c.f. Table 1). A peak total phosphorous value of 492.8 ug/L was detected in BLT-9 in July 2021, with somewhat lower results in October. LaBella notes, as above, that total phosphorus results can be affected by elevated sample turbidity, as particulate mater digested during the analytical process can yield higher results. Locations with the highest phosphorus results (BLT-9 and BLT-12 in July, for example) also exhibited elevated turbidity as a result of low water flows, resulting in disturbance and capture of streambed sediments in sample vessels. These elevated results may therefore not be fully representative of water quality.

Table 15: Soluble Reactive Phosphorus, Byram Reservoir Tributaries, 2021

Location Name	Soluble Reactive Phosphorus (µgP/L)		
	6/2/2021	7/26/2021	10/13/2021
BLT-1	**28.8**	**25.2**	**25.8**
BLT-2	**26.4**	**39.5**	8.9
BLT-3	16.1	**31.6**	15.9
BLT-4	**33.2**	**37.8**	12.9

BLT-5	19.3	17.1	15.1
BLT-6	15.5	**29.3**	16.1
BLT-7	10.4	16.1	5.9
BLT-8	10.4	**23.1**	12.4
BLT-9	--	6.7	7.6
BLT-10	**23.9**	**35.0**	**21.1**
BLT-11	12.2	11.0	10.6
BLT-12	17.4	**60.2**	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Soluble Reactive Phosphorus – Soluble reactive (dissolved) phosphorus concentrations are always lower than total phosphorus values, and in 2021 were similar to historic averages at Byram Reservoir (Appendix D, Table 28). Higher phosphorus concentrations have normally been recorded in tributary samples than the open reservoir samples (c.f. Table 2), suggesting that ecological activity consumes reactive phosphorus in the reservoir.

Table 16: Nitrate, Byram Reservoir Tributaries, 2021

Location Name	Nitrate (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	< 0.5	< 0.5	< 0.05
BLT-2	< 0.5	< 0.5	0.0513
BLT-3	< 0.5	< 0.5	< 0.05
BLT-4	< 0.5	< 0.5	0.0681
BLT-5	< 0.5	< 0.5	0.0704
BLT-6	0.6	0.61	0.733
BLT-7	< 0.5	0.54	0.452
BLT-8	0.7	1.2	0.869
BLT-9	--	< 0.5	0.0715
BLT-10	< 0.5	< 0.5	0.242
BLT-11	< 0.5	< 0.5	0.161
BLT-12	< 0.5	< 0.5	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Nitrate – Consistent with the historic data record, limited detections of nitrate were reported in tributaries during 2021 at relatively low concentrations. The general absence of nitrate in the reservoir (c.f. Table 3) suggests nitrate uptake by aquatic plants or other ecological degradation is occurring.

Table 17: Total Kjeldahl Nitrogen (TKN), Byram Reservoir Tributaries, 2021

Location Name	TKN (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	0.78	< 0.6	0.67
BLT-2	0.89	0.85	0.43
BLT-3	1.01	< 0.6	1.35
BLT-4	0.62	< 0.6	0.52

BLT-5	< 0.6	< 0.6	< 0.4
BLT-6	< 0.6	< 0.6	0.4
BLT-7	< 0.6	< 0.6	< 0.4
BLT-8	< 0.6	< 0.6	0.45
BLT-9	--	< 0.6	< 0.4
BLT-10	< 0.6	< 0.6	< 0.4
BLT-11	0.6	< 0.6	< 0.4
BLT-12	0.74	1.62	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Total Kjeldahl Nitrogen (TKN) – During 2021, TKN concentrations were below 2.0 mg/L in all samples, and most were non-detect. TKN concentrations were lower than in recent years, and are similar to levels observed prior to 2013 (Appendix D, Table 26). Lower TKN levels in the tributaries may help to stabilize and/or reduce TKN levels in the reservoir as well.

Table 18: Ammonia, Byram Reservoir Tributaries, 2021

Location Name	Ammonia (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	< 0.0457	< 0.015	< 0.0376
BLT-2	0.0584	< 0.0378	0.0604
BLT-3	< 0.0328	< 0.015	0.134
BLT-4	0.0489	< 0.015	0.0722
BLT-5	< 0.0368	< 0.015	0.065
BLT-6	< 0.0339	< 0.015	< 0.0203
BLT-7	< 0.0359	< 0.015	< 0.0426
BLT-8	< 0.0369	< 0.015	< 0.0412
BLT-9	--	< 0.015	0.06
BLT-10	< 0.0381	< 0.015	< 0.0441
BLT-11	< 0.0346	< 0.015	0.0503
BLT-12	< 0.0357	0.1366	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Ammonia – Ammonia concentrations during 2021 were generally consistent with prior data and were less than 0.1 mg/L, with the exception of two samples (BLT-12, 7/26/2021; BLT-3, 10/13/2021). Ammonia levels lower than 0.1 mg/L are generally considered acceptable for drinking water supplies and characteristic of waters with available dissolved oxygen (Appendix D, Table 24). BLT-2 has most frequently exhibited elevated ammonia in prior years. Average ammonia levels in the tributaries and reservoir during 2021 were similar.

Table 19: Sodium, Byram Reservoir Tributaries, 2021

Location Name	Sodium (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	14.9	11.6	14.5
BLT-2	**82.8**	**76.7**	**120**
BLT-3	**161.6**	**139.8**	**173**

BLT-4	**26.6**	**76.5**	**79.9**
BLT-5	< 1.0	**162.5**	**199**
BLT-6	**45.6**	**44.5**	**45.4**
BLT-7	**81.8**	**76.7**	**89.0**
BLT-8	**168.8**	**161.2**	**155**
BLT-9	--	**109.6**	**103**
BLT-10	8.8	11.8	15.7
BLT-11	**22.3**	**23.3**	**28.3**
BLT-12	**209.3**	**146.9**	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Sodium – With the exception of seven samples, all 2021 sodium results exceeded 20 mg/L, and collectively all 2021 samples averaged 87.5 mg/L. Long-term average sodium levels have been gradually increasing in most tributaries since 2002. This is visually presented on **Figure 5**. The 20 year record presented on Figure 5 suggests sodium concentrations in several tributaries have been increasing approximately 50% every decade. Sodium concentrations in the open lake water are not increasing as quickly, likely benefitting from dilution by other tributaries and baseflow (springs) directly entering the reservoir. The non-detect result noted for the BLT-5 sample from June is likely incorrect, based on the July and October results and may have resulted from laboratory error.

Tributaries BLT-3, BLT-5, BLT-8 and BLT-12 exhibited the highest 2021 sodium concentrations, between 139.8 and 209.3 mg/L, averaging approximately 9 times the NYSDOH 20 mg/L guidance threshold. Tributaries with the highest sodium concentrations all flow from sub-watersheds containing roadways.

Table 20: **Chloride, Byram Reservoir Tributaries, 2021**

Location Name	Chloride (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	30.6	29.0	26.2
BLT-2	144.2	144.5	**262**
BLT-3	**276.7**	**305.5**	**307**
BLT-4	145.9	151.5	166
BLT-5	**423.7**	**485.8**	**499**
BLT-6	92.7	102.6	109
BLT-7	168.3	169.1	200
BLT-8	**288.1**	**285.2**	216
BLT-9	--	189.0	162
BLT-10	48.3	42.3	26.2
BLT-11	95.0	95.4	107
BLT-12	**377.2**	**270.6**	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Chloride – Eleven 2021 samples contained chloride above the NYSDOH drinking water standard of 250 mg/L and of these, none exceeded 500 mg/L. Additional samples identified

generally elevated chloride. These chloride concentrations are generally higher than those detected prior to 2015 (Appendix D, Table 30).

Chloride appears to be generally stoichiometrically balanced with sodium concentrations, indicating the most likely source of both sodium and chloride is salt. The presence of lower chloride concentrations in reservoir samples (c.f. Table 7) likely reflects the differing volumetric contributions from each tributary.

Table 21: **Total Petroleum Hydrocarbons, Byram Reservoir Tributaries, 2021**

Location Name	TPH (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BLT-1	< 1.0	< 1.0	< 1.0
BLT-2	6.0	< 1.0	< 1.0
BLT-3	3.86	1.33	1.44
BLT-4	< 1.0	< 1.0	< 1.0
BLT-5	1.14	< 1.0	< 1.0
BLT-6	1.57	< 1.0	< 1.0
BLT-7	< 1.0	< 1.0	< 1.0
BLT-8	1.43	< 1.0	< 1.0
BLT-9	--	< 1.0	< 1.0
BLT-10	3.57	< 1.0	2.65
BLT-11	1.00	< 1.0	< 1.0
BLT-12	< 1.0	< 1.0	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Total Petroleum Hydrocarbons (TPH) – Consistent with prior years, TPH was detected infrequently, ten times across the 34 samples collected during 2021, and at relatively low concentrations. The likely source of TPH in Byram Reservoir tributaries is surface runoff from roadways (Appendix D, Table 29). TPH detected over the method minimum occurred in BLT-2, BLT-3, BLT-5, BLT-6, BLT-8, BLT-10 and BLT-11. The majority of 2021 detections occurred in June and many did not recur in July and/or October. The exception was BLT-3, which contained detectable TPH in all three 2021 samples. Further observation of this location is warranted.

Table 22: Alkalinity, Byram Reservoir Tributaries, 2021

Location Name	Alkalinity (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BLT-1	48	66	72
BLT-2	84	108	160
BLT-3	78	96	110
BLT-4	96	116	120
BLT-5	142	144	160
BLT-6	64	74	76
BLT-7	62	64	80

BLT-8	106	150	130
BLT-9	--	114	110
BLT-10	24	28	28
BLT-11	66	82	96
BLT-12	158	202	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Alkalinity – Alkalinity concentrations in 2021 are similar to previous data values (Appendix D, Table 31). All concentrations were 20 mg/L or higher, a threshold value above which surface waters generally remain well-buffered against acidification. These alkalinity data are consistent with field pH values of 7 or above. Data continue to suggest a shift to a more basic environment (higher pH) over the last few years.

Table 23: Calcium, Byram Reservoir Tributaries, 2021

Location Name	Calcium (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	15.8	16.7	18.7
BLT-2	45.0	42.9	70.0
BLT-3	52.4	42.1	43.7
BLT-4	15.7	43.7	48.9
BLT-5	< 0.01	119.3	113
BLT-6	40.0	35.9	36.3
BLT-7	42.4	38.4	45.4
BLT-8	49.5	46.0	37.1
BLT-9	--	40.5	37.0
BLT-10	7.4	10.0	10.6
BLT-11	29.7	49.3	48.7
BLT-12	43.0	60.3	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Calcium – Calcium concentrations varied considerably during 2021, ranging from 7.4 to 119.3 mg/L. (Appendix D, Table 30) and appear to correlate to sodium and chloride levels for unknown reasons. Since calcium was added to the monitoring program in 2018, few prior data are available for comparison; however, 2021 results appear similar to 2018 and 2019 data (Appendix D, Table 32). The non-detect result noted for the BLT-5 sample from June is likely incorrect, based on the July and October results and may have resulted from laboratory error.

Table 24: Dissolved Iron, Byram Reservoir Tributaries, 2021

Location Name	Dissolved Iron (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	0.26	**0.31**	< 0.278
BLT-2	**0.83**	**0.54**	< 0.278
BLT-3	**0.31**	0.05	< 0.278

BLT-4	0.06	0.06	< 0.278
BLT-5	< 0.3	< 0.005	< 0.278
BLT-6	**0.71**	0.1	< 0.278
BLT-7	0.28	0.09	< 0.278
BLT-8	0.11	0.07	< 0.278
BLT-9	--	0.09	< 0.278
BLT-10	0.09	0.04	< 0.278
BLT-11	**1.00**	0.02	< 0.278
BLT-12	**0.44**	0.02	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Iron - Iron was added to the monitoring program in 2021 at the Village's request due to reported detections of iron at the Village water intake near the north end of Byram Lake. Iron was detected in tributaries entering Byram Reservoir by LaBella during 2021 at concentrations exceeding the NYSDEC groundwater standard (0.300 mg/L) in seven samples, with a maximum concentration of 1.00 mg/L at BLT-11 in June 2021. Fourteen other samples identified iron at concentrations below the NYSDEC standard. As noted in the prior section, elevated iron was not documented by LaBella in any open reservoir samples during 2021, so it is unclear whether any of these tributary contributions are significant sources of iron to the drinking water resource.

Table 24: **Dissolved Manganese, Byram Reservoir Tributaries, 2021**

Location Name	Dissolved Manganese (mg/L)		
	6/2/2021	**7/26/2021**	**10/13/2021**
BLT-1	0.02	0.02	< 0.005
BLT-2	**0.52**	**0.35**	**1.0**
BLT-3	0.21	0.04	< 0.005
BLT-4	0.01	< 0.05	< 0.005
BLT-5	< 0.05	< 0.005	< 0.005
BLT-6	0.14	0.01	< 0.005
BLT-7	0.07	0.06	0.0431
BLT-8	0.02	< 0.005	< 0.005
BLT-9	--	0.01	0.00679
BLT-10	< 0.05	< 0.005	< 0.005
BLT-11	**0.53**	0.02	< 0.005
BLT-12	0.05	0.06	--

Note: -- indicates that this water quality parameter was not sampled at this location due to lack of water flow.

Manganese - Manganese was also added to the monitoring program in 2021 at the Village's request due to reported detections of manganese at the Village water intake near the north end of Byram Lake. Manganese was detected at concentrations exceeding the NYSDEC groundwater standard (0.300 mg/L) in only four tributary samples during 2021, with a maximum concentration of 1.00 mg/L at BLT-2 in October 2021. Three of elevated sample events were collected from BLT-2. Fourteen other samples identified manganese at concentrations below the NYSDEC standard. Again, it is not clear if these results suggest the

tributaries are a significant source of manganese to the reservoir since none of LaBella's 2021 open reservoir samples identified elevated manganese. .

4.0 2021 SUMMARY

Water quality data collected in 2021 from Byram Reservoir have been summarized in Section 1.0, 3.1 and 3.2.2 and are not repeated here.

Iron and manganese (dissolved fraction) were added to the monitoring program in 2021 at the Village's request. Samples collected from the tributaries identified a scattering of exceedances of the NYSDEC groundwater quality standard that may reflect natural occurrence of these metals from native minerals. Only trace concentrations of both metals were identified in the open water reservoir samples during 2021, suggesting dilution of tributary inputs and/or uptake of these metals by reservoir flora and fauna are helping to limit reservoir concentrations to trace levels.

Water flow volumes entering Byram Reservoir in 2021 appear to have been about average, on the basis of gage data from tributary BLT-1.

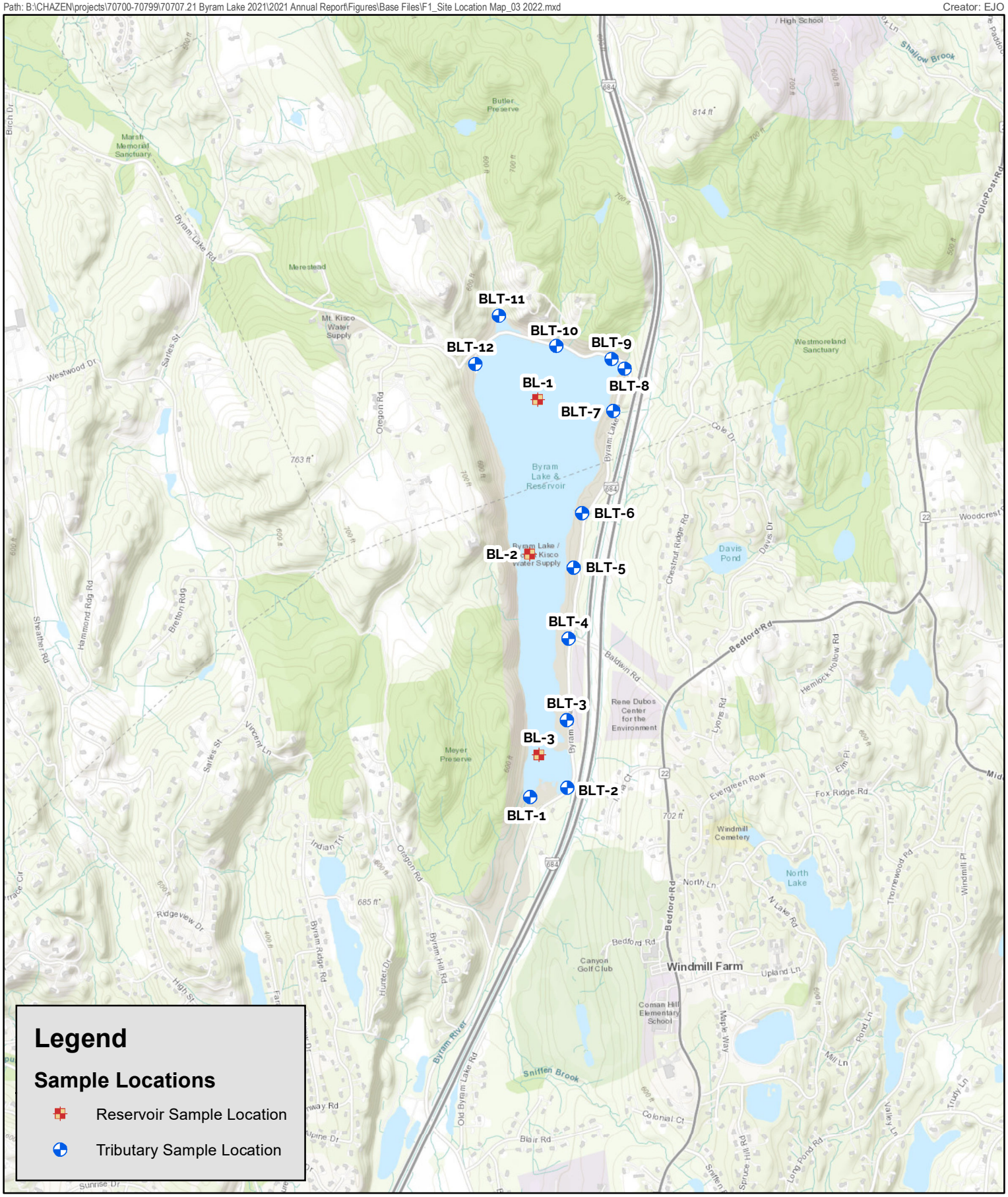
A continued recommendation to more intentionally consider climate factors of precipitation and air temperature as a factor when evaluating water quality in Byram Reservoir is outlined in Section 1.2 and reviewed in Section 5.0 below..

5.0 WATER QUALITY MANAGEMENT RECOMMENDATIONS

For 2021, LaBella recommends maintaining the current monitoring commitment for Spring, Summer, and Autumn monitoring, conditional on favorable dry weather periods during each season.

As noted previously, establishing methods to document reservoir water levels and potable water withdrawal volumes could assist in water balance evaluations influencing reservoir volume turnover factors, and monitoring of both air and reservoir water temperatures is recommended since warming lakes over time are sometimes associated with modifying algal populations and dissolved oxygen.

FIGURES



Legend

Sample Locations

- Reservoir Sample Location
- Tributary Sample Location

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
CZ70707.21 **Figure 1** 3/25/2022	Site Location Map	Byram Lake Byram Lake Road, Village of Mount Kisco, Westchester County, New York

N

0 1,000 2,000 Feet

1 inch = 2,000 feet

LaBella
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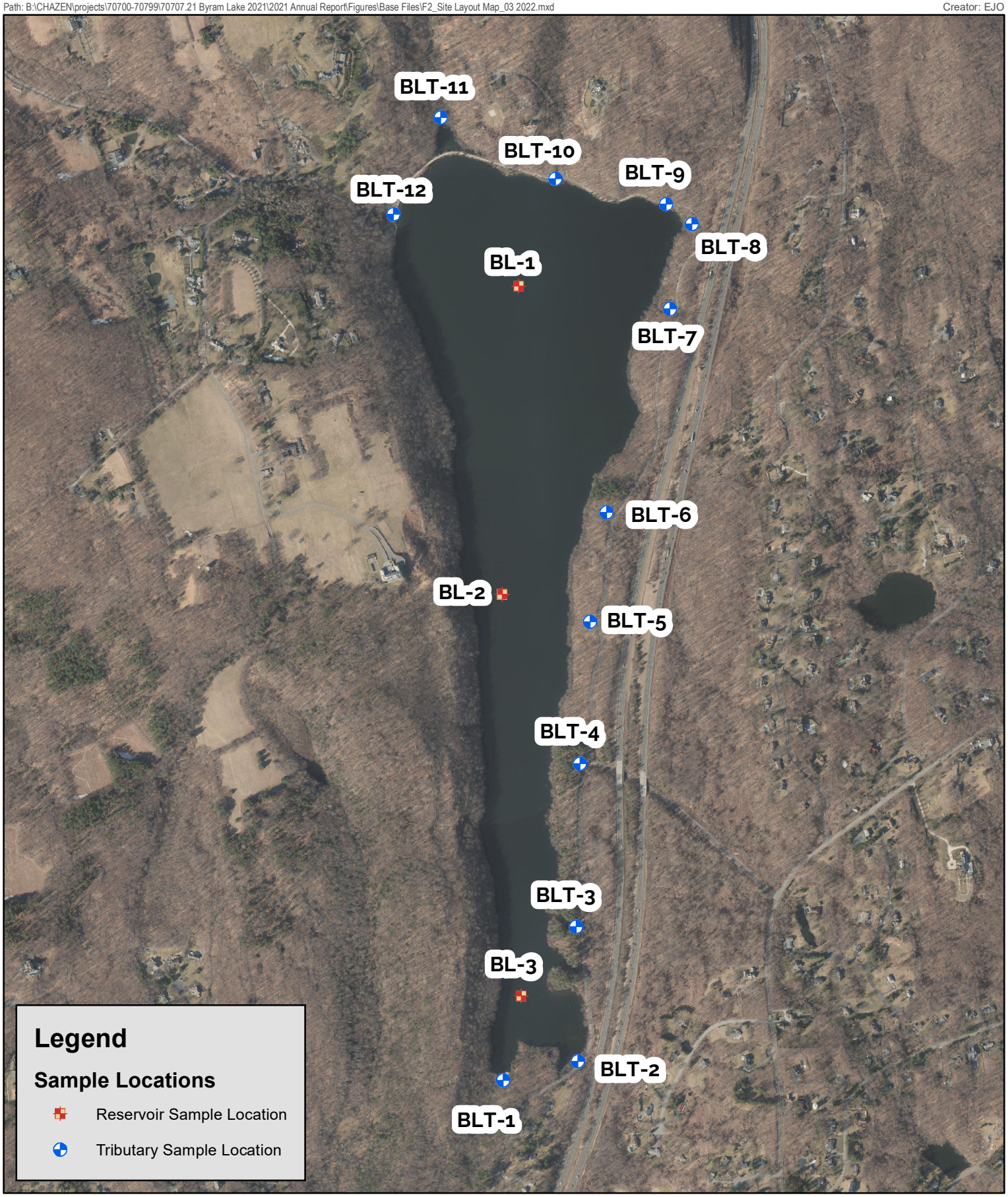
Data Source: NYSDOT 2019; USGS 2020; LaBella 2021.



PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
CZ70707.21 **Figure 2** 3/25/2022	Site Layout Map	Byram Lake Byram Lake Road, Village of Mount Kisco, Westchester County, New York

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1 inch = 1,000 feet

LaBella
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Data Source: NYSDOT 2019; USGS 2020; LaBella 2021.

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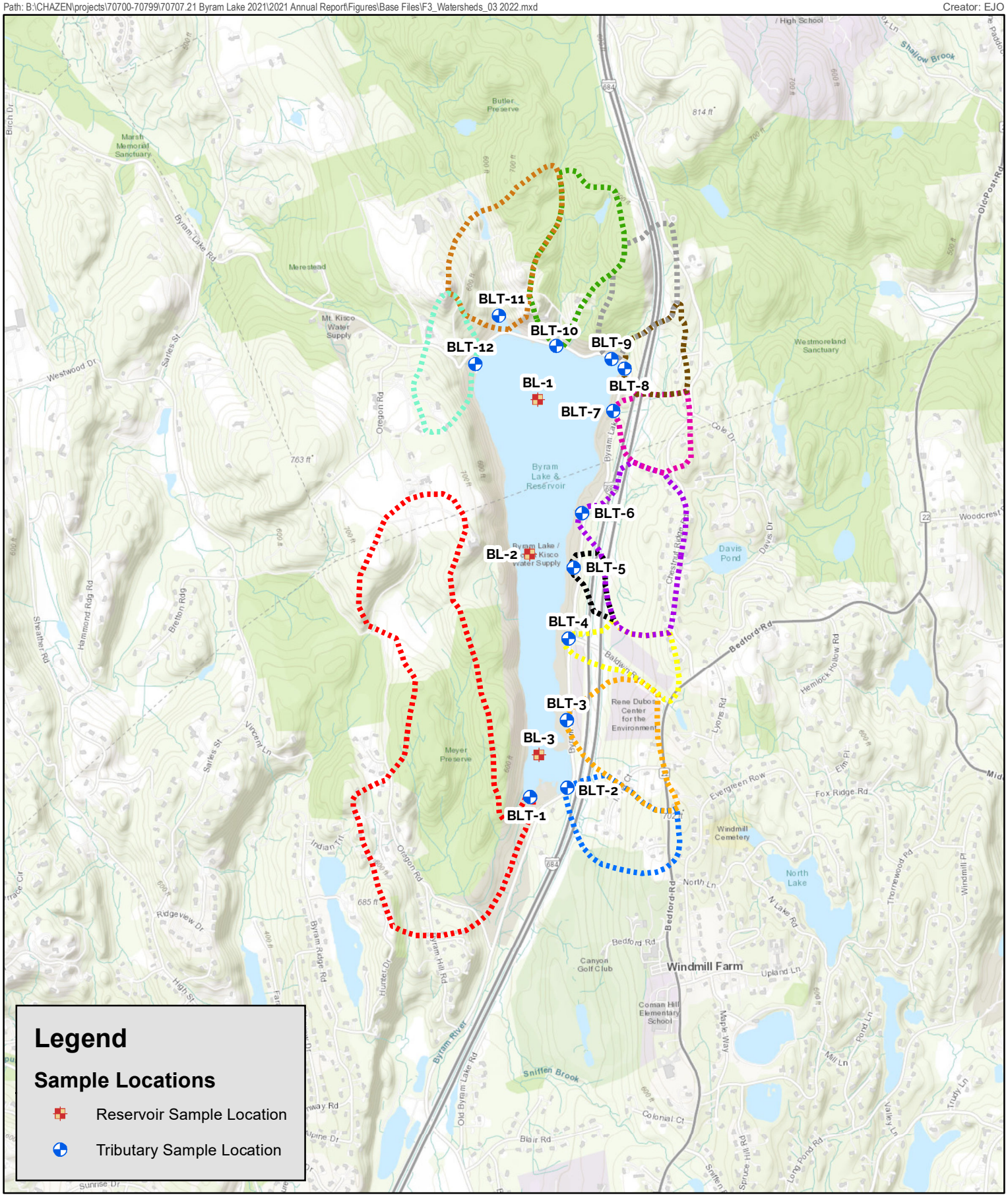

Legend

Sample Locations

- Reservoir Sample Location
- Tributary Sample Location

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
CZ70707.21 **Figure 3** 3/25/2022	Watershed Map	Byram Lake Byram Lake Road, Village of Mount Kisco, Westchester County, New York

N

0 1,000 2,000 Feet

1 inch = 2,000 feet

LaBella
Powered by partnership.

Data Source: NYSDOT 2019; USGS 2020; LaBella 2021.

Figure 4 - Byram Lake Secchi Disk Readings

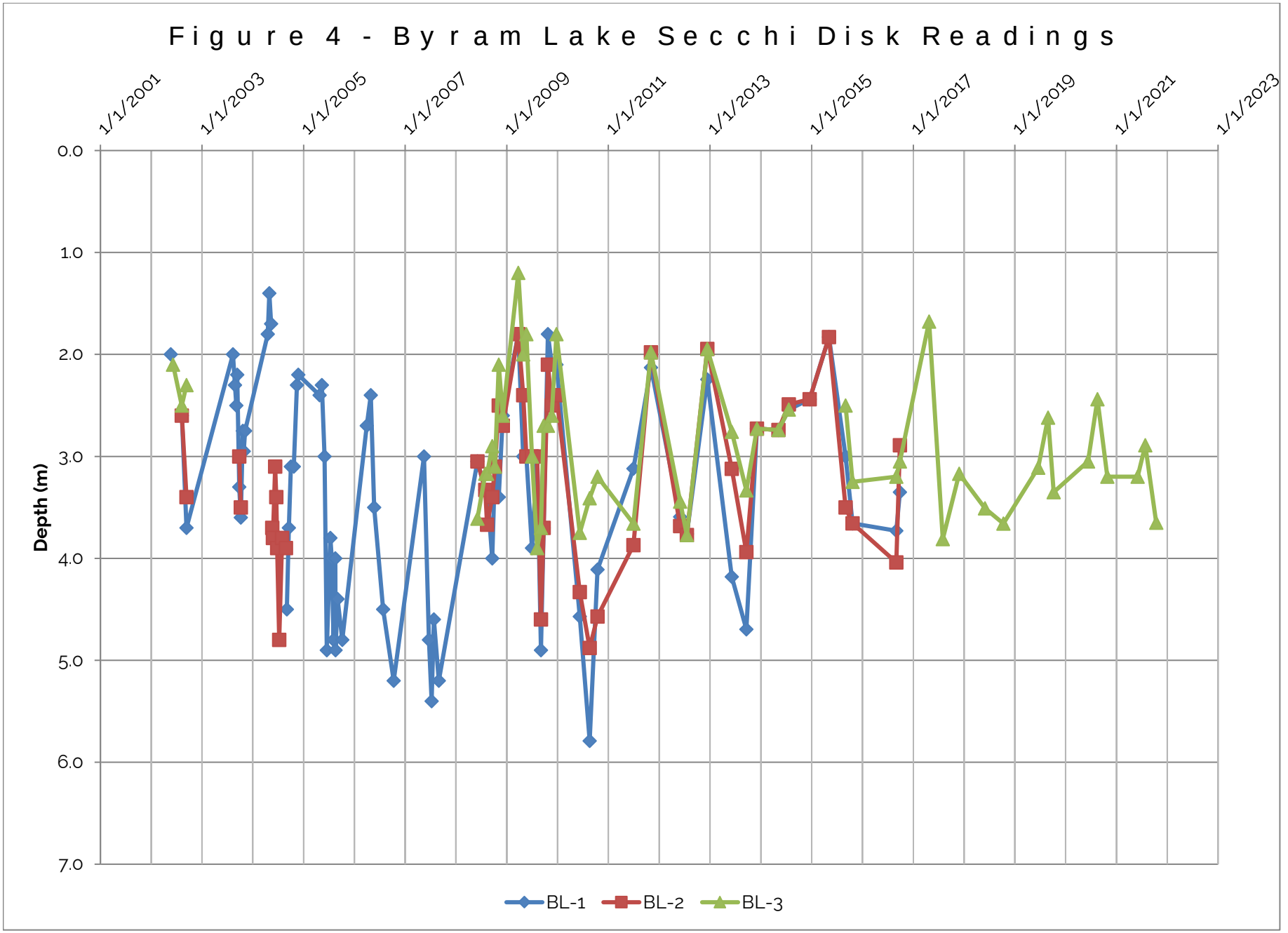

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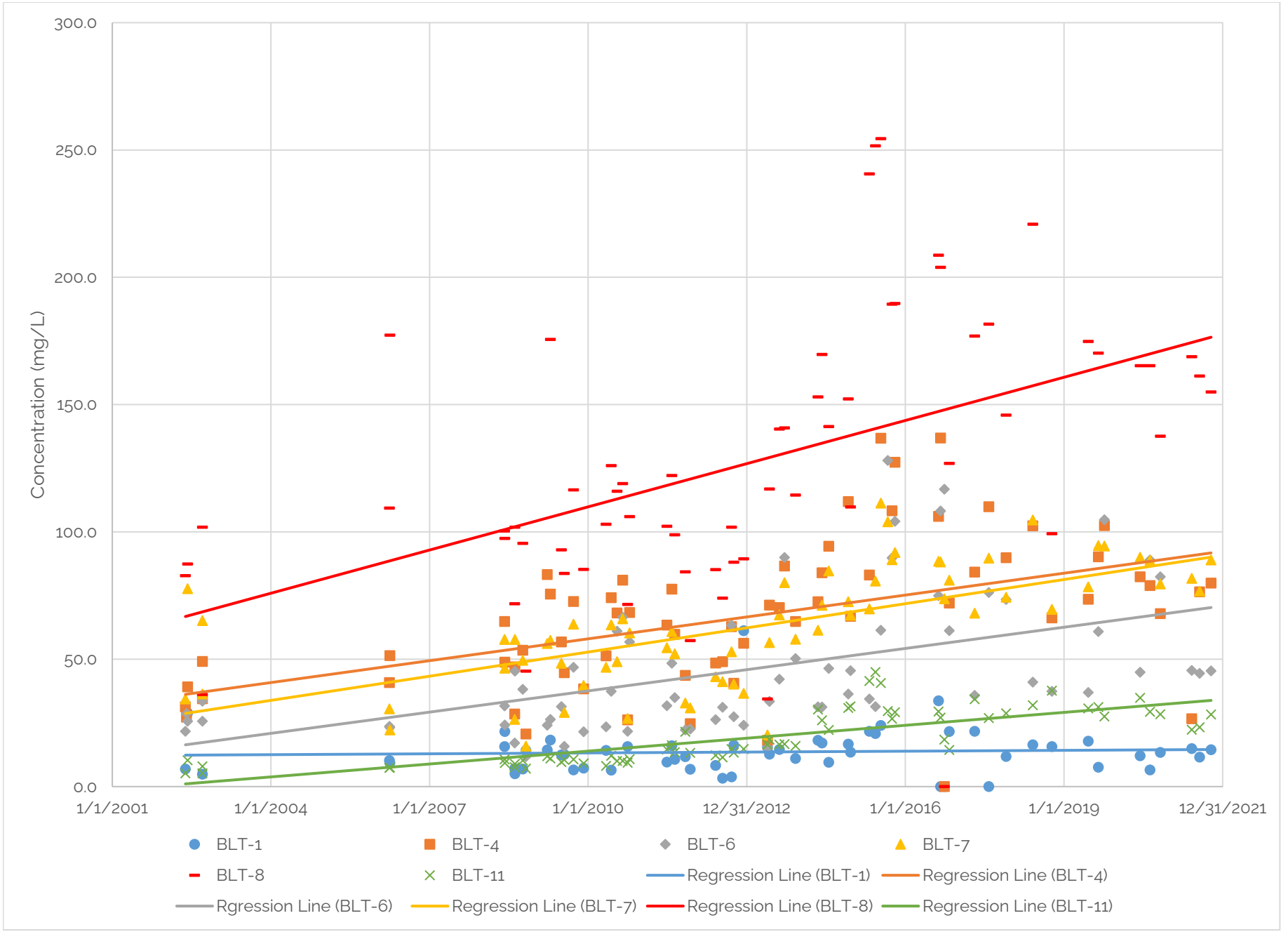
FIGURE 5: SODIUM CONCENTRATIONS IN SELECT TRIBUTARIES



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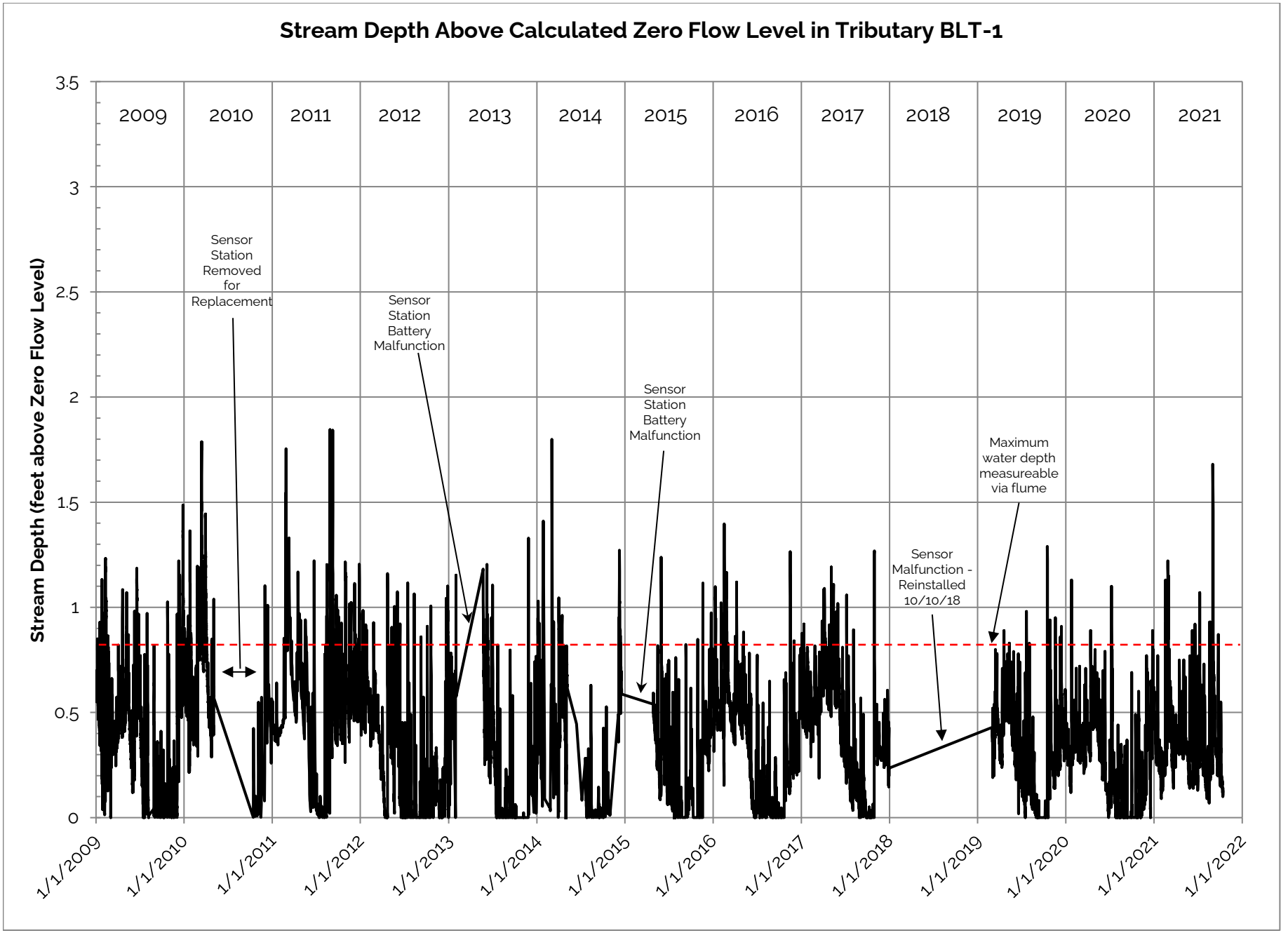
APPENDIX A

Tributary Gaging Data for BLT-1



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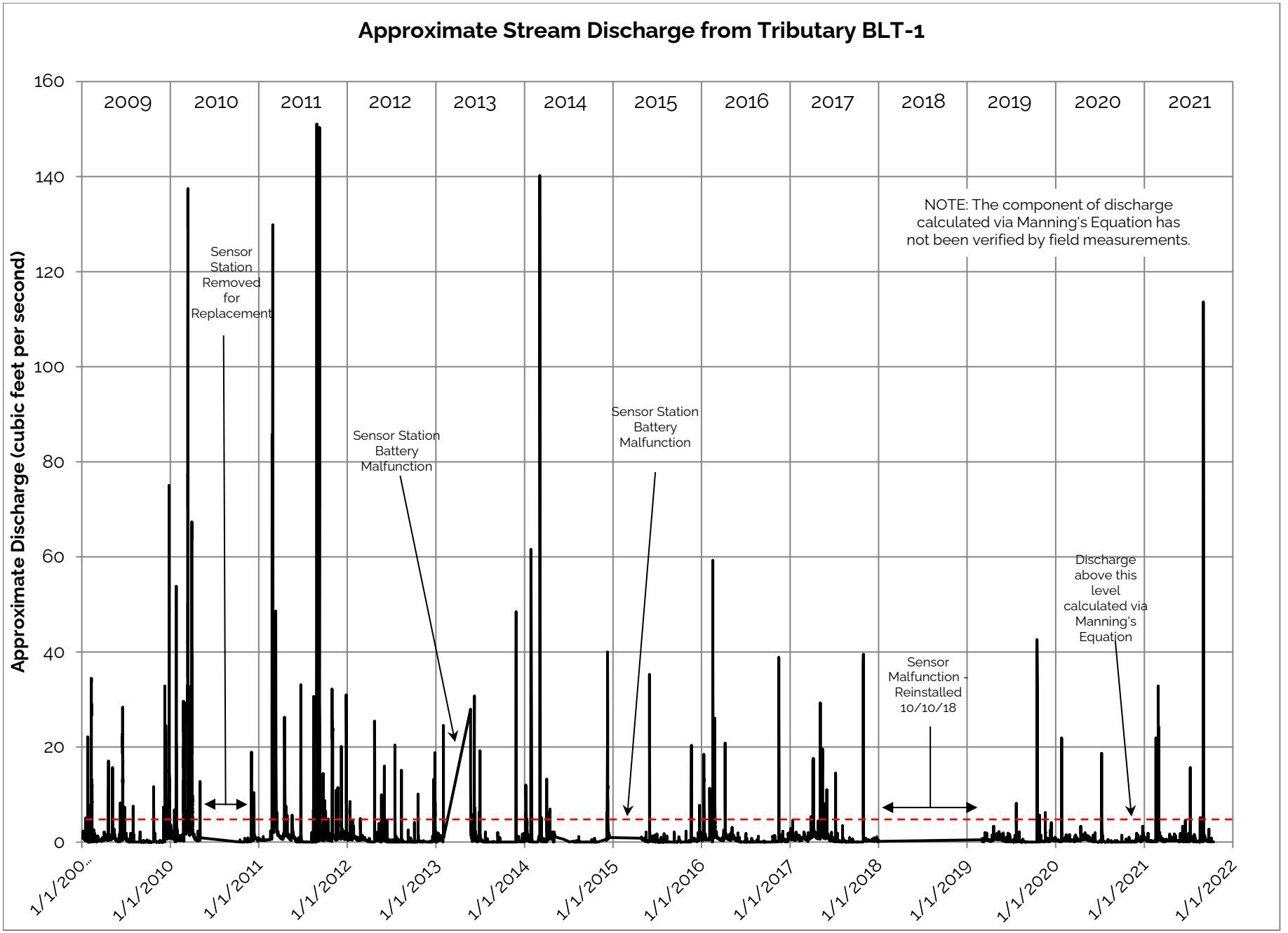
Appendix A: Tributary Gaging Data



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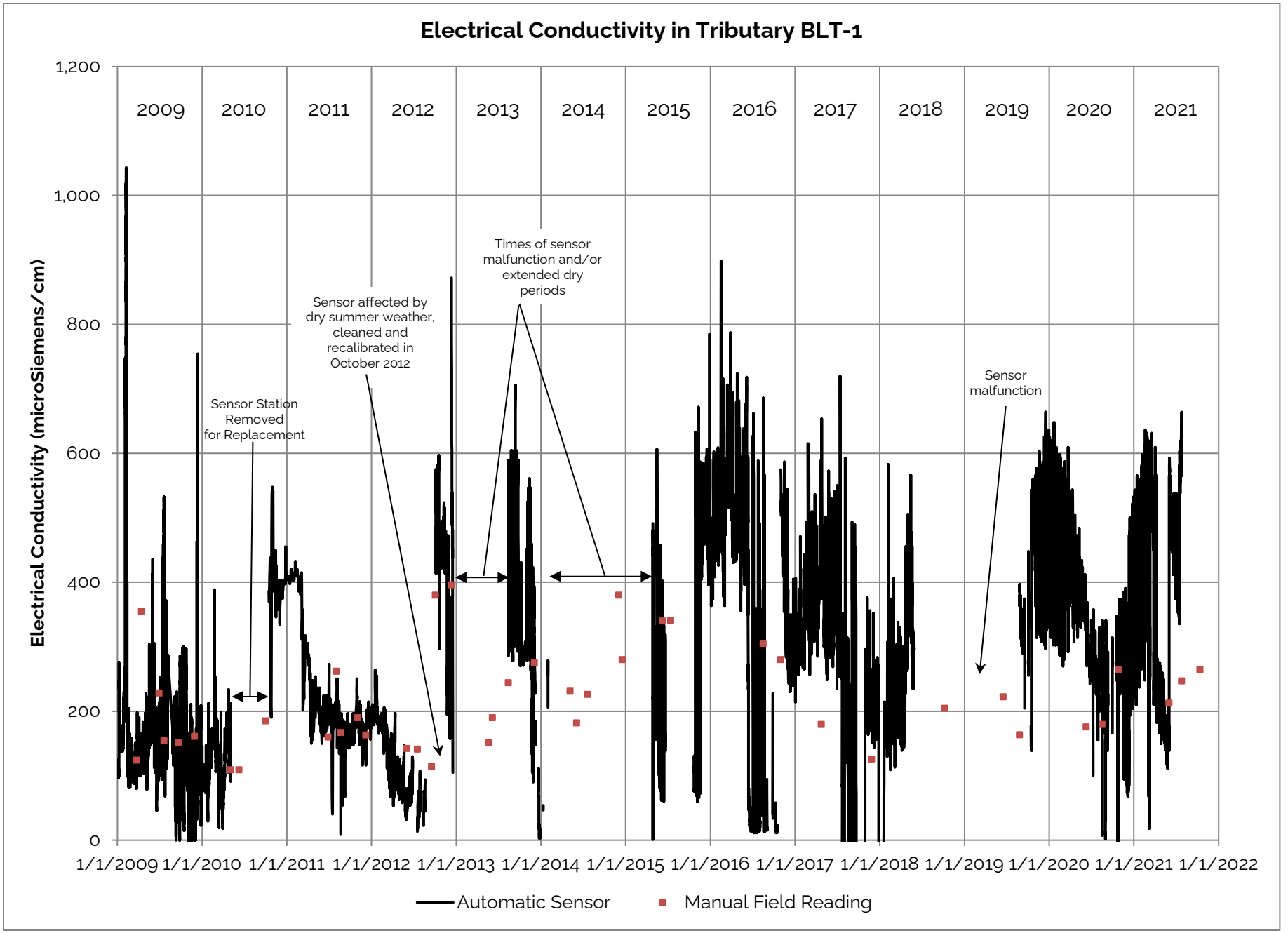
Appendix A: Tributary Gaging Data



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APPENDIX B

Byram Reservoir Physical Water Quality Measurements

Appendix B, Table 1
Byram Lake
Routine Water Quality Measurements
pH (SU)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3.0	8.34	8.14	6.45
BL-3.1	8.35	8.08	7.20
BL-3.2	8.40	7.93	7.28
BL-3.3	8.31	7.90	7.34
BL-3.4	NW	7.26	NW

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) BL-3.1 means location 1 at a depth of 1 meter below the surface.

3) NM - Not Measured

Appendix B, Table 2

Byram Lake

Routine Water Quality Measurements

Temperature (°C)

June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3.0	15.6	22.3	15.9
BL-3.1	14.9	22.0	15.9
BL-3.2	14.7	21.9	15.8
BL-3.3	14.4	21.9	15.8
BL-3.4	NW	21.5	NW

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) BL-3.1 means location 1 at a depth of 1 meter below the surface.

3) NM - Not Measured

Appendix B, Table 3
Byram Lake
Routine Water Quality Measurements
Specific Conductance (mS/cm)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3.0	408.1	438.8	417.7
BL-3.1	407.6	437.5	410.9
BL-3.2	406.4	437.8	410.1
BL-3.3	405.7	438.3	410.1
BL-3.4	NW	445.9	NW

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) BL-3.1 means location 1 at a depth of 1 meter below the surface.

3) NM - Not Measured

Appendix B, Table 4
Byram Lake
Routine Water Quality Measurements
Dissolved Oxygen (mg/L)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3.0	9.84	7.54	7.84
BL-3.1	10.35	6.73	7.30
BL-3.2	10.49	6.90	7.70
BL-3.3	9.46	6.87	7.43
BL-3.4	NW	3.73*	NW

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) BL-3.1 means location 1 at a depth of 1 meter below the surface.

3) NM - Not Measured, due to instrument malfunction.

4)."*" indicates that the result does not meet the NYSDEC Part 703 Water Quality Standard For NYSDEC Class A surface waters, DO must be 4.0

Appendix B, Table 5
Byram Lake
Routine Water Quality Measurements
Turbidity (NTU)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3S	0.7	3.3	0.8
BL-3M	0.9	1.3	1.5

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) Turbidity was analyzed at Aqua Env. Lab from 2015 - present

3) NM = Not Measured during this event.

4) " * " indicates that the result exceeds the NYSDOH Subpart 5-1 Maximum Contaminant Limit (MCL) for potable water

Appendix B, Table 6
Byram Lake
Routine Water Quality Measurements
Secchi Disk Transparency (m)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
BL-3	3.20	2.89	3.65

NOTES:

1) NW = No water at that depth, due to decreased lake levels

2) NM - Not measured

APPENDIX C

Tributary Physical Water Quality Measurements

Appendix C, Table 1
Byram Lake Tributaries
Seasonal Water Quality Measurements
pH (SU)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	7.87	8.13	7.19
BLT-2	7.50	7.47	6.92
BLT-3	7.12	6.97	7.14
BLT-4	8.16	8.35	7.8
BLT-5	7.74	7.93	7.72
BLT-6	7.60	7.85	7.65
BLT-7	7.72	7.80	7.24
BLT-8	7.71	7.14	7.55
BLT-9	NW	7.90	7.31
BLT-10	7.45	7.78	7.28
BLT-11	7.69	7.89	7.78
BLT-12	7.82	7.93	NW

NOTES:
1. Samples obtained during "dry" sampling events were taken at least 72 hours after a signficant rain event (totalling at least 0.1 inches of precipitation).
2. NW = No water in tributary during this sampling event, due to dry conditions.

Appendix C, Table 2
Byram Lake Tributaries
Seasonal Water Quality Measurements
Temperature (°C)

June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	13.4	19.2	12.9
BLT-2	11.6	16.7	12.0
BLT-3	9.4	14.8	13.7
BLT-4	12.5	18.2	13.0
BLT-5	9.4	12.8	11.0
BLT-6	10.4	15.8	11.8
BLT-7	9.9	13.6	10.3
BLT-8	10.6	15.3	12.3
BLT-9	NW	15.80	12.2
BLT-10	9.8	14.0	11.3
BLT-11	11.8	16.6	13.4
BLT-12	11.0	17.0	NW

NOTES:
1. Samples obtained during "dry" sampling events were taken at least 72 hours after a signficant rain event (totalling at least 0.1 inches of precipitation).
2. NW = No water in tributary during this sampling event, due to dry conditions.

Appendix C, Table 3
Byram Lake Tributaries
Seasonal Water Quality Measurements
Conductivity (µS/cm)

June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	213	247	265
BLT-2	768	833	1296
BLT-3	1256	1377	1360
BLT-4	793	854	901
BLT-5	1800	2133	1923
BLT-6	558	603	620
BLT-7	835	663	951
BLT-8	1332	1177	1140
BLT-9	NW	993	863
BLT-10	131	144	197
BLT-11	539	614	641
BLT-12	1739	1501	NW

NOTES:
1. Samples obtained during "dry" sampling events were taken at least 72 hours after a signficant rain event (totalling at least 0.1 inches of precipitation).
2. NW = No water in tributary during this sampling event, due to dry conditions.

Appendix C, Table 4
Byram Lake Tributaries
Seasonal Water Quality Measurements
Dissolved Oxygen (mg/L)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	7.84	7.70	8.41
BLT-2	8.01	4.72	3.70
BLT-3	5.51	4.70	7.80
BLT-4	9.81	8.38	8.17
BLT-5	9.93	9.55	9.12
BLT-6	10.76	7.62	8.87
BLT-7	11.20	10.19	8.93
BLT-8	11.22	10.00	7.91
BLT-9	NW	7.64	6.32
BLT-10	11.81	10.64	7.90
BLT-11	9.95	7.15	9.72
BLT-12	9.12	8.23	NW

NOTES:
1. Samples obtained during "dry" sampling events were taken at least 72 hours after a signficant rain event (totalling at least 0.1 inches of precipitation).
2. NW = No water in tributary during this sampling event, due to dry conditions.
3. NM = Not Measured, due to instrument malfunction.

Appendix C, Table 5
Byram Lake Tributaries
Seasonal Water Quality Measurements
Turbidity (NTU)
June through October 2021

Location Name	Date		
	6/2/2021	7/26/2021	10/13/2021
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	1.1	3.1	2.5
BLT-2	10.1*	1.3	4.7
BLT-3	2.9	3.8	19.8*
BLT-4	1.2	12.3*	1.0
BLT-5	1.0	1.2	2.5
BLT-6	2.0	3.6	1.8
BLT-7	0.5	1.8	3.1
BLT-8	0.8	2.2	0.3
BLT-9	NW	*	16.8*
BLT-10	0.9	1.6	14.2*
BLT-11	11.1*	5.2*	1.6
BLT-12	4.2	41.9*	NW

NOTES:
1. Samples obtained during "dry" sampling events were taken at least 72 hours after a signficant rain event (totalling at least 0.1 inches of precipitation).
2. NW = No water in tributary during this sampling event, due to dry conditions.
3. " * " indicates that the result exceeds the NYSDOH Subpart 5-1 Maximum Contamin

APPENDIX D

Historical Reservoir and Tributary Data

Appendix D, Table 1

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (Standard Units)													
	6/7/2002	8/9/2002	9/12/2002	3/30/2004	3/31/2004	6/22/2004	6/22/2004	5/31/2005	3/31/2006	4/3/2006	7/20/2006	7/26/2006	10/1/2006	10/10/2006
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	7.90	8.10	8.10	--	--	--	--	--	**6.40**	--	6.80	7.40	--	7.51
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	8.00	8.10	8.10	8.34	7.54	--	7.60	8.30	6.90	**6.15**	6.60	6.70	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	7.50	7.10	8.10	--	--	--	--	--	6.70	**6.30**	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	6.90	6.90	7.00	7.81	7.14	7.68	7.70	7.83	7.00	6.54	6.90	6.80	6.80	6.90
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	7.00	--	7.00	--	--	--	--	7.87	--	--	7.00	6.80	**6.36**	7.12
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	8.00	8.00	8.00	7.80	7.40	7.80	7.40	7.86	7.10	6.72	7.20	7.00	**6.47**	7.36
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	7.90	8.00	8.00	7.50	7.30	--	--	8.50	7.10	6.75	7.20	7.10	6.65	7.34
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	7.90	--	7.60	7.00	--	--	7.66	6.90	6.67	7.20	7.10	6.80	7.38
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	7.30	--	8.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	7.00	--	7.00	--	--	--	--	--	7.40	6.94	7.40	7.30	6.71	7.51
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	7.80	8.00	7.90	--	--	--	--	8.18	7.40	6.81	7.30	7.80	6.68	7.42
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	7.50	--	7.90	--	--	7.80	7.80	8.05	7.20	6.82	7.20	7.30	6.88	7.51

NOTES:

1. -- = no available data.
2. NM - Not Measured - This location was not sampled due to weather limitations or instrument issues.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard.

For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

LaBella Associates, DPC

April 2022

Appendix D, Table 1

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (Standard Units)												
	9/10/2007	6/3/2008	7/30/2008	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009
BL-1.0	--	7.28	7.64	**5.60**	**5.60**	**5.44**	8.15	**9.10**	7.33	**8.58**	8.44	8.19	**8.92**
BL-1.1	7.70	7.40	8.08	**6.31**	**5.90**	**5.70**	7.97	**8.90**	7.12	8.41	8.24	8.19	8.26
BL-1.2	--	7.43	8.34	**6.48**	**5.80**	**5.79**	7.82	**8.70**	7.17	8.39	8.09	8.18	8.19
BL-1.3	--	7.56	**8.58**	6.56	**6.10**	**5.84**	7.63	8.50	7.12	8.42	8.04	8.18	8.12
BL-1.4	--	7.48	**8.71**	6.67	**6.20**	**5.88**	7.55	8.30	6.99	8.45	8.05	8.18	8.10
BL-1.5	--	7.53	**8.84**	6.77	**6.20**	**5.92**	7.45	8.30	6.94	8.48	7.93	8.19	8.08
BL-1.6	--	7.55	**8.82**	6.73	**6.20**	**5.97**	7.44	8.10	6.85	**8.55**	7.98	8.19	8.07
BL-1.7	7.70	7.59	**8.68**	6.58	**6.30**	**6.00**	7.38	8.00	6.81	**8.52**	7.95	8.15	8.06
BL-1.8	--	7.53	**8.51**	**6.45**	**6.30**	**6.03**	7.34	8.00	6.71	**8.52**	7.89	8.01	7.96
BL-1.9	--	7.53	8.44	**6.25**	**6.40**	**6.08**	7.32	7.90	6.65	8.50	7.69	7.93	7.95
BL-1.10	--	7.49	8.27	**6.05**	**6.40**	**6.10**	7.30	7.80	6.52	8.38	7.82	7.83	7.77
BL-1.11	--	7.48	8.20	**5.93**	**6.40**	**6.12**	7.27	7.80	6.66	8.27	7.62	7.77	7.68
BL-1.12	--	--	8.18	**5.82**	**6.20**	**6.11**	7.25	7.80	6.70	8.08	7.49	7.72	7.55
BL-1.13	7.20	--	8.08	**5.72**	--	--	--	--	6.61	--	--	--	7.53
BL-1.14	--	--	--	--	--	--	--	--	6.61	--	--	--	--
BL-2.0	--	8.04	**8.73**	7.04	6.70	**6.44**	7.34	7.80	6.83	8.37	8.05	8.48	7.96
BL-2.1	--	7.99	**8.74**	7.17	6.70	6.50	7.29	7.70	6.85	8.35	7.93	8.28	8.00
BL-2.2	--	7.95	**8.96**	7.25	6.60	6.55	7.26	7.60	6.89	8.35	7.91	8.20	8.06
BL-2.3	--	7.90	**9.14**	7.30	6.60	6.53	7.23	7.60	6.86	8.40	7.93	8.18	8.07
BL-2.4	--	7.92	**9.14**	7.35	6.60	6.60	7.21	7.60	7.02	8.48	7.93	8.14	8.08
BL-2.5	--	7.93	**9.05**	7.40	6.70	6.62	7.18	7.50	6.85	**8.59**	7.95	8.09	8.10
BL-2.6	--	7.60	**8.87**	7.30	6.70	6.63	7.17	7.50	6.85	**8.67**	7.96	8.03	8.11
BL-2.7	--	7.77	**8.73**	7.10	6.70	6.65	7.15	7.50	6.96	**8.65**	7.96	7.99	8.11
BL-2.8	--	7.70	**8.61**	6.90	6.80	6.67	7.10	7.50	6.98	8.45	7.88	7.90	8.08
BL-2.9	--	7.65	**8.59**	6.73	6.80	6.68	7.10	7.50	6.84	8.27	7.80	7.83	8.01
BL-2.10	--	7.61	8.50	6.56	6.80	6.69	7.10	7.50	6.81	8.09	7.71	7.78	7.82
BL-2.11	--	7.55	8.39	**6.40**	6.60	--	7.10	7.40	6.82	8.00	7.63	--	7.81
BL-2.12	--	**8.75**	8.20	**6.20**	--	--	--	7.50	6.89	7.92	7.55	--	7.83
BL-3.0	--	8.02	**8.74**	6.80	**6.30**	6.75	7.28	7.60	6.78	8.28	7.84	8.29	8.00
BL-3.1	--	7.89	**8.82**	6.90	**6.40**	6.79	7.20	7.50	6.71	8.27	7.85	8.14	7.98
BL-3.2	--	7.88	**8.90**	7.00	**6.30**	6.74	7.20	7.40	6.86	8.24	7.87	8.08	7.99
BL-3.3	--	--	**9.16**	7.00	**6.30**	6.80	7.18	7.40	6.71	--	7.91	8.03	8.02
BL-3.4	--	--	**9.20**	7.00	**6.30**	6.78	7.20	7.40	--	--	7.90	7.98	8.01
BL-3.5	--	--	--	7.00	--	--	--	--	--	--	--	7.87	8.00

NOTES:

1. -- = no available data.
2. NM - Not Measured - This location was not sampled due to weather limitations or instrument issues.
3. Cells that are BOLD and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard.

For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

Appendix D, Table 1

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (Standard Units)												
	9/8/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012
BL-1.0	**8.51**	**8.97**	**5.50**	**5.69**	7.16	**9.98**	**9.17**	**9.82**	8.33	7.82	8.28	7.54	**9.82**
BL-1.1	8.45	**8.72**	**5.80**	**5.79**	7.26	**9.69**	**8.86**	**9.80**	8.33	7.76	8.14	7.81	**9.60**
BL-1.2	8.42	**8.55**	**5.96**	**5.89**	7.32	**9.09**	**8.77**	**9.54**	8.30	7.69	8.09	7.94	**9.33**
BL-1.3	8.36	8.40	**6.03**	**5.91**	7.40	**9.00**	**8.55**	**9.40**	8.16	7.68	8.07	8.03	**9.17**
BL-1.4	8.33	8.30	**6.10**	**5.95**	7.38	**8.85**	8.41	**9.20**	7.87	7.66	8.05	8.09	**8.93**
BL-1.5	8.32	8.26	**6.12**	**5.95**	7.38	**8.65**	8.28	**8.91**	7.67	7.64	8.00	8.12	**8.79**
BL-1.6	8.27	8.22	**6.15**	**5.98**	7.33	8.44	8.07	**8.81**	7.55	7.61	7.95	8.11	**8.69**
BL-1.7	8.24	8.18	**6.22**	**6.03**	7.32	8.31	7.91	**8.75**	7.57	7.59	7.97	8.07	**8.57**
BL-1.8	8.22	8.11	**6.28**	**6.01**	7.30	8.18	7.87	**8.56**	7.37	7.58	8.03	8.01	8.47
BL-1.9	8.21	8.07	**6.27**	**6.05**	7.30	7.98	7.87	8.39	7.24	7.56	8.03	7.94	8.47
BL-1.10	8.18	8.02	**6.27**	**6.00**	7.30	7.95	7.80	8.24	7.00	7.52	8.04	7.78	8.34
BL-1.11	8.12	7.98	**6.22**	**6.02**	7.27	7.93	7.77	8.11	6.86	7.54	7.99	7.80	8.25
BL-1.12	8.05	7.92	**6.17**	**6.03**	7.32	7.93	--	--	6.79	7.58	--	7.86	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	8.46	8.21	6.67	**6.30**	7.19	8.50	7.77	7.95	8.35	7.71	8.09	8.06	7.98
BL-2.1	8.25	8.16	6.63	**6.29**	7.20	8.39	7.78	7.87	8.36	7.69	8.01	8.22	7.92
BL-2.2	8.21	8.14	6.62	**6.28**	7.27	8.34	7.78	7.81	8.37	7.67	8.00	8.28	7.94
BL-2.3	8.18	8.13	6.63	**6.27**	7.33	8.27	7.84	7.78	8.37	7.66	7.96	8.36	7.89
BL-2.4	8.15	8.12	6.62	**6.27**	7.34	8.21	7.86	7.71	7.91	7.64	7.97	8.33	7.87
BL-2.5	8.11	8.11	6.62	**6.31**	7.36	7.96	7.83	7.72	7.70	7.63	8.03	8.32	7.86
BL-2.6	8.09	8.08	6.61	**6.31**	7.35	7.76	7.81	7.66	7.43	7.60	8.04	8.27	7.84
BL-2.7	8.09	8.07	6.60	**6.30**	7.36	7.61	7.74	7.64	7.21	7.59	8.03	8.15	7.84
BL-2.8	8.07	8.04	6.60	**6.30**	7.34	7.55	7.58	7.62	7.11	7.59	8.02	8.08	7.82
BL-2.9	8.03	8.01	6.58	**6.34**	7.37	7.49	7.46	7.59	6.90	7.58	8.01	8.03	7.82
BL-2.10	8.00	7.97	6.54	**6.32**	7.36	7.43	7.41	7.50	6.83	7.57	--	8.03	7.80
BL-2.11	7.97	7.92	**6.42**	**6.35**	7.36	7.37	--	--	6.81	7.55	--	7.94	7.78
BL-2.12	--	7.85	**6.28**	--	7.36	--	--	--	--	--	--	--	--
BL-3.0	8.19	8.20	6.80	**5.70**	7.23	7.89	7.62	7.79	8.34	7.82	8.07	8.25	7.73
BL-3.1	8.09	8.16	6.74	**5.72**	7.26	7.85	7.59	7.57	8.33	7.74	7.95	8.21	7.76
BL-3.2	8.02	8.14	6.72	**5.70**	7.33	7.78	7.56	7.52	8.28	7.72	7.94	8.26	7.79
BL-3.3	8.00	8.15	6.71	**5.72**	7.41	7.70	7.53	7.45	8.20	7.70	7.91	8.27	7.77
BL-3.4	7.96	8.14	**6.48**	**5.72**	--	7.63	--	--	8.23	7.69	7.91	8.27	--
BL-3.5	7.93	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. NM - Not Measured - This location was not sampled due to weather limitations or instrument issues.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard.

For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

Appendix D, Table 1

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (Standard Units)										
	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0	**10.34**	**9.66**	**4.81**	pH probe malfunction - no useable data obtained.	**8.70**	7.00	--	--	7.88	7.82	7.31
BL-1.1	**9.84**	**9.55**	**4.96**		**8.71**	7.12	8.12	8.06	7.85	7.77	7.31
BL-1.2	**9.55**	**9.42**	**5.12**		**8.69**	7.18	7.91	NM	7.85	7.81	7.31
BL-1.3	**9.37**	**9.35**	**5.13**		**8.55**	7.20	7.91	NM	7.79	7.86	7.33
BL-1.4	**9.25**	**9.28**	**5.13**		**8.57**	7.15	7.80	NM	7.76	7.87	7.36
BL-1.5	**9.05**	**9.22**	**5.18**		**8.57**	7.22	7.74	NM	7.76	7.87	7.36
BL-1.6	**8.90**	**9.15**	**5.20**		8.49	7.07	7.67	NM	7.76	7.87	7.37
BL-1.7	**8.78**	**9.09**	**5.15**		**8.53**	7.18	7.50	NM	7.75	7.78	7.40
BL-1.8	**8.66**	**9.03**	**5.25**		8.45	7.09	7.28	NM	7.75	7.64	7.35
BL-1.9	**8.58**	**8.90**	**5.25**		8.20	7.17	6.96	NM	7.74	7.52	7.20
BL-1.10	**8.53**	**8.68**	**5.24**		7.95	7.30	6.60	NM	7.66	7.51	7.13
BL-1.11	8.38	--	**5.26**		7.92	7.18	6.53	NM	7.63	7.43	--
BL-1.12	--	--	--		7.91	7.15	**6.44**	NM	--	--	--
BL-1.13	--	--	--		--	7.05	--	--	--	--	--
BL-1.14	--	--	--		--	--	--	--	--	--	--
BL-2.0	8.29	**8.59**	**5.56**	pH probe malfunction - no useable data obtained.	**9.06**	7.42	--	--	7.99	7.61	7.41
BL-2.1	8.29	**8.59**	**5.64**		**8.88**	7.40	7.97	8.25	7.86	7.68	7.48
BL-2.2	8.28	**8.59**	**5.68**		**8.64**	7.44	7.96	8.34	7.81	7.74	7.52
BL-2.3	8.27	**8.56**	**5.69**		**8.58**	7.42	7.94	8.37	7.83	7.79	7.53
BL-2.4	8.20	**8.53**	**5.67**		**8.60**	7.39	7.95	8.37	7.75	7.82	7.53
BL-2.5	8.13	8.47	**5.68**		**8.58**	7.37	7.61	8.34	7.75	7.83	7.56
BL-2.6	8.08	8.44	**5.70**		**8.52**	7.39	7.42	8.28	7.78	7.82	7.56
BL-2.7	8.02	8.41	**5.67**		8.33	7.40	7.25	8.18	7.76	7.71	7.57
BL-2.8	7.96	8.23	**5.69**		8.13	7.36	7.13	8.00	7.78	7.60	7.57
BL-2.9	7.90	8.09	**5.70**		8.01	7.36	7.03	7.80	7.67	7.53	7.46
BL-2.10	7.85	8.02	**5.69**		--	7.35	6.91	7.64	7.63	7.46	7.37
BL-2.11	7.83	--	--		--	--	6.79	--	7.48	--	--
BL-2.12	--	--	--		--	--	6.65	--	--	--	--
BL-3.0	8.07	8.07	**5.87**	8.22	**8.74**	NM	--	--	7.92	7.69	7.27
BL-3.1	8.08	8.04	**5.87**	8.03	**8.80**	NM	7.86	**8.58**	7.85	7.60	7.31
BL-3.2	8.10	8.03	**5.89**	7.93	**8.80**	NM	7.88	**8.58**	7.81	7.60	7.32
BL-3.3	8.05	8.03	**5.86**	7.79	**8.78**	NM	7.87	**8.58**	7.81	7.56	7.32
BL-3.4	7.99	--	--	7.69	**8.71**	NM	7.78	--	--	7.53	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. NM - Not Measured - This location was not sampled due to weather limitations or instrument issues.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

Appendix D, Table 1

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (Standard Units)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	8.02	7.93	**8.64**	**8.59**	**8.52**	**8.63**	8.09	**8.78**	7.78	7.72	8.24	8.34	8.14	6.45
BL-3.1	7.92	7.86	**8.71**	8.48	8.50	8.29	8.00	**8.63**	7.74	7.71	8.13	8.35	8.08	7.20
BL-3.2	7.89	**8.69**	**8.78**	8.42	8.49	8.42	8.11	**8.51**	7.75	7.64	8.04	8.40	7.93	7.28
BL-3.3	7.86	8.47	--	8.34	8.47	8.36	8.10	8.41	7.73	7.56	7.93	8.31	7.90	7.34
BL-3.4	7.80	**8.75**	--	8.32	8.45	8.31	8.09	--	7.75	--	--	--	7.26	--
BL-3.5	--	--	--	8.29	--	8.28	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. NM - Not Measured - This location was not sampled due to weather limitations or instrument issues.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard.

For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

LaBella Associates, DPC

April 2022

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Temperature (°C)															
Name	5/21/2002	6/7/2002	6/28/2002	7/10/2002	7/25/2002	8/9/2002	9/6/2002	9/12/2002	11/22/2002	4/24/2003	5/9/2003	5/20/2003	6/5/2003	6/17/2003	7/3/2003	7/17/2003
BL-1.0	15.10	20.70	27.80	27.30	27.10	25.50	22.00	22.00	8.80	10.30	16.60	19.10	17.40	21.80	25.00	25.90
BL-1.1	15.00	20.80	27.60	27.30	27.20	25.30	21.90	22.00	8.80	10.30	15.70	19.00	17.40	21.80	25.00	25.10
BL-1.2	14.80	20.80	26.20	27.20	27.20	25.10	21.90	22.00	8.80	10.20	15.20	18.90	17.30	21.80	25.10	25.00
BL-1.3	14.70	20.40	24.40	26.80	27.20	25.00	21.80	22.00	8.70	10.10	14.80	17.00	17.20	21.30	23.20	24.60
BL-1.4	14.60	18.50	20.10	25.40	26.60	25.00	21.70	22.00	8.70	9.40	13.70	15.10	16.30	18.30	20.00	23.00
BL-1.5	14.60	15.80	19.00	22.10	23.30	24.30	21.30	22.00	8.60	9.00	12.20	13.00	14.80	16.20	17.00	19.70
BL-1.6	14.50	14.50	17.40	20.90	18.20	19.20	20.00	19.40	8.60	8.60	10.70	11.30	12.30	14.20	14.60	16.00
BL-1.7	12.60	13.10	15.00	13.40	14.40	13.90	18.70	15.70	8.50	7.90	9.10	9.40	10.20	11.70	11.70	12.70
BL-1.8	10.80	11.20	13.20	12.70	11.60	11.80	11.70	12.10	8.50	7.50	8.20	7.90	8.80	9.10	9.10	10.00
BL-1.9	9.70	10.00	10.30	10.30	10.10	10.20	9.90	12.50	8.40	7.10	7.40	7.30	7.70	7.90	8.10	8.40
BL-1.10	9.20	8.90	9.10	9.70	9.10	9.20	9.50	10.00	8.30	6.90	7.10	7.00	7.40	7.50	7.60	7.80
BL-1.11	8.30	8.60	--	9.20	8.60	9.00	9.50	10.10	8.20	6.70	6.70	6.70	7.00	7.30	7.20	7.40
BL-1.12	--	--	--	9.10	--	--	--	10.00	8.30	6.70	6.50	6.70	6.70	6.90	6.80	7.00
BL-1.13	--	--	--	9.00	--	--	--	--	8.20	6.70	--	--	6.40	6.30	6.60	6.80
BL-1.14	--	--	--	--	--	--	--	--	--	6.60	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Temperature (°C)															
Name	8/12/2003	8/26/2003	9/4/2003	9/11/2003	9/25/2003	9/25/2003	10/7/2003	10/7/2003	10/21/2003	10/28/2003	11/7/2003	4/16/2004	4/29/2004	5/12/2004	5/20/2004	5/25/2004
BL-1.0	28.50	26.50	23.00	23.50	21.50	21.40	17.40	17.50	15.00	14.00	13.20	8.40	13.80	20.90	21.50	22.60
BL-1.1	26.40	26.30	23.00	23.30	21.50	21.40	17.30	17.40	14.80	13.70	13.20	8.30	13.70	19.00	21.50	22.20
BL-1.2	26.00	26.00	22.90	22.40	21.50	21.40	16.90	16.90	14.70	13.10	13.00	8.10	13.60	17.20	21.50	21.90
BL-1.3	25.70	25.90	22.80	22.30	21.40	21.40	16.80	16.90	14.60	13.10	13.00	7.80	13.60	16.40	21.40	20.10
BL-1.4	25.10	25.60	22.80	22.20	21.40	21.30	16.80	16.80	14.60	13.00	12.90	7.70	13.60	15.20	17.20	17.40
BL-1.5	22.50	24.30	22.70	21.90	21.30	21.20	16.80	16.80	14.50	13.00	12.90	7.60	13.60	13.70	14.50	15.10
BL-1.6	18.30	20.40	20.70	21.10	21.10	18.30	16.70	16.70	14.50	13.00	12.80	7.40	9.90	11.70	11.80	12.60
BL-1.7	14.70	15.60	14.90	17.60	19.20	12.70	16.70	16.70	14.50	13.00	12.70	7.20	8.60	9.00	9.20	10.30
BL-1.8	11.30	12.00	11.30	12.50	12.40	10.20	16.30	15.60	14.50	12.90	12.70	7.00	8.00	8.00	8.20	8.60
BL-1.9	9.20	9.30	9.60	9.30	9.70	9.00	10.60	10.50	13.20	12.50	12.20	6.70	7.40	7.30	7.50	7.60
BL-1.10	8.00	8.40	8.30	8.30	8.40	8.30	8.80	8.80	9.40	10.30	11.10	6.60	7.10	7.20	7.20	7.30
BL-1.11	7.60	7.70	7.60	7.60	7.60	--	7.90	--	8.10	8.50	9.30	6.30	7.00	7.00	6.90	7.00
BL-1.12	7.00	7.30	7.10	7.10	7.20	--	7.40	--	7.60	8.20	7.80	6.00	6.40	6.60	6.60	6.70
BL-1.13	6.70	--	--	--	7.00	--	--	--	--	--	--	--	--	6.30	6.40	6.40
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	17.50	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	17.40	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	16.90	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	16.90	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	16.80	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	16.80	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	16.70	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	16.70	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	15.60	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	10.50	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	8.80	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)															
	6/9/2004	6/18/2004	6/24/2004	7/8/2004	7/29/2004	8/26/2004	9/1/2004	9/17/2004	9/30/2004	10/21/2004	11/13/2004	11/23/2004	4/26/2005	5/12/2005	5/31/2005	6/16/2005
BL-1.0	22.20	26.30	24.50	27.10	25.90	25.30	25.40	22.90	20.30	14.70	10.00	9.10	12.90	14.90	18.10	25.00
BL-1.1	21.40	24.80	23.90	27.00	24.70	25.10	25.30	22.90	20.30	14.6	10.00	9.10	12.9	14.80	17.80	25.00
BL-1.2	20.30	22.20	23.70	25.90	24.40	24.70	25.20	22.90	20.30	14.60	10.00	9.10	12.90	14.80	17.10	25.00
BL-1.3	19.90	23.20	23.50	25.40	24.30	24.40	25.20	22.80	20.30	14.60	10.00	9.00	12.90	14.80	16.20	24.00
BL-1.4	19.20	21.20	21.50	24.90	24.30	24.10	24.50	22.70	20.20	14.60	10.00	9.00	12.90	12.30	15.60	19.30
BL-1.5	17.00	17.00	19.50	21.20	23.40	23.90	24.00	22.60	20.20	14.60	10.00	8.90	12.90	12.00	15.00	16.80
BL-1.6	14.70	14.50	14.90	16.70	19.50	22.30	22.60	22.50	20.10	14.60	10.00	8.90	12.80	11.70	14.30	15.00
BL-1.7	10.90	11.80	12.20	12.90	14.10	18.00	17.80	20.90	19.80	14.60	10.00	8.80	8.80	10.30	12.60	12.80
BL-1.8	9.10	9.50	9.60	10.20	10.90	12.10	13.20	15.10	17.10	14.30	10.00	8.80	7.50	8.70	9.30	9.70
BL-1.9	8.00	7.90	8.20	8.60	9.00	10.10	10.10	11.40	13.10	14.00	9.90	8.80	6.70	6.90	7.60	8.20
BL-1.10	7.30	7.30	7.50	7.60	7.80	8.70	8.60	8.90	9.40	11.70	9.80	8.80	6.40	6.40	7.00	7.20
BL-1.11	7.10	7.10	7.20	7.20	7.20	7.50	7.50	8.00	9.00	9.30	9.80	8.70	6.10	6.20	6.70	6.80
BL-1.12	6.60	6.80	6.80	6.70	6.80	7.00	7.10	7.20	7.40	7.50	9.70	8.70	5.60	--	6.20	6.40
BL-1.13	--	--	--	--	--	6.70	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)													
	7/12/2005	7/21/2005	8/3/2005	8/17/2005	9/1/2005	10/5/2005	3/31/2006	4/28/2006	5/23/2006	6/17/2019	7/11/1905	7/11/1905	8/18/2006	10/10/2006
BL-1.0	26.60	27.60	28.10	26.90	25.70	22.70	7.60	13.50	16.30	16.30	28.40	27.40	24.80	18.50
BL-1.1	26.40	27.60	27.70	26.90	25.60	22.00	7.50	13.40	16.00	16.30	28.00	27.30	24.60	18.20
BL-1.2	25.70	27.40	27.50	26.70	25.30	21.20	7.30	13.30	15.70	16.30	28.00	27.10	24.20	18.00
BL-1.3	24.90	26.60	27.40	26.70	25.30	20.80	7.30	13.30	15.60	16.30	27.30	26.80	23.90	17.90
BL-1.4	24.00	25.00	26.80	26.60	25.30	20.60	7.20	13.30	15.60	16.30	26.00	26.70	23.70	17.90
BL-1.5	22.00	22.30	24.50	26.50	25.30	20.50	7.10	13.30	15.30	16.30	22.90	24.30	23.40	17.80
BL-1.6	17.40	17.50	19.50	22.00	23.90	20.20	6.70	9.70	14.30	16.30	19.00	20.40	21.90	17.70
BL-1.7	13.90	14.50	15.20	18.50	16.60	19.00	6.20	8.40	12.30	16.30	15.90	15.00	17.60	17.50
BL-1.8	11.50	11.30	11.40	12.20	13.30	14.40	5.70	7.80	9.80	16.30	12.00	12.10	11.90	16.80
BL-1.9	9.10	9.20	9.50	10.20	10.10	10.40	5.40	7.30	8.40	16.30	9.20	9.80	9.90	12.50
BL-1.10	7.60	7.60	8.00	8.30	8.40	8.40	5.20	7.00	7.60	16.30	7.90	8.40	8.50	9.60
BL-1.11	6.80	7.00	7.10	7.30	7.10	--	5.00	6.90	7.20	16.30	7.40	7.50	7.40	8.20
BL-1.12	6.40	6.50	--	6.70	6.50	--	4.90	6.30	6.80	16.30	7.20	7.10	6.90	7.30
BL-1.13	--	6.00	--	--	--	--	--	--	--	16.30	--	--	6.60	6.70
BL-1.14	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	16.30	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	8.63	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	8.29	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	8.42	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	8.36	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	8.31	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	8.28	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Temperature (°C)															
Name	4/5/2007	5/3/2007	5/16/2007	6/20/2007	7/10/2007	7/25/2007	8/30/2007	9/18/2007	10/3/2007	6/3/2008	7/30/2008	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008
BL-1.0	8.80	14.50	19.40	24.50	28.00	25.10	26.30	23.80	20.70	--	27.20	25.90	22.60	17.80	11.50	6.80
BL-1.1	8.70	14.40	19.00	24.50	26.70	24.80	25.10	23.80	20.70	21.87	27.10	25.90	22.50	17.80	11.50	6.80
BL-1.2	8.50	14.30	18.80	24.10	26.40	24.60	24.90	23.80	20.70	21.10	27.00	25.90	22.40	17.80	11.50	6.80
BL-1.3	8.20	14.30	18.20	23.70	25.30	24.40	24.50	23.70	20.70	20.76	27.00	25.90	22.40	17.80	11.50	6.80
BL-1.4	8.10	14.30	17.30	21.80	24.20	24.10	23.90	23.60	20.60	20.02	26.90	25.90	22.30	17.80	11.50	6.80
BL-1.5	8.00	14.30	13.10	19.60	22.80	23.90	23.30	23.50	20.60	19.96	26.90	25.90	22.30	17.80	11.50	6.80
BL-1.6	7.80	10.40	10.50	15.10	19.40	21.00	21.80	23.40	20.50	16.95	26.50	24.00	22.20	17.80	11.50	6.80
BL-1.7	7.60	9.00	8.90	11.10	13.70	15.20	17.30	21.70	20.20	13.70	24.40	18.60	21.10	17.80	11.50	6.80
BL-1.8	7.40	8.40	7.80	8.90	10.00	10.80	12.30	15.70	17.40	9.85	20.50	14.00	15.50	17.80	11.50	6.80
BL-1.9	7.00	7.80	7.50	7.60	8.20	8.40	9.30	11.90	13.40	9.64	15.90	11.00	11.50	17.80	11.50	6.80
BL-1.10	6.90	7.50	7.20	7.20	7.50	7.60	7.90	9.30	9.60	8.30	12.10	8.80	8.80	17.80	11.50	6.80
BL-1.11	6.60	7.40	7.10	7.00	7.20	7.20	7.70	8.30	8.20	11.22	9.50	8.00	7.80	17.70	11.50	6.80
BL-1.12	6.30	6.70	6.70	6.90	6.80	6.80	--	7.50	7.50	8.60	8.30	7.40	7.00	13.20	11.50	6.80
BL-1.13	--	--	--	--	--	--	--	--	--	--	7.60	7.10	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	27.60	26.00	22.50	17.68	11.50	6.60
BL-2.1	--	--	--	--	--	--	--	--	--	21.77	27.30	25.90	22.50	17.71	11.50	6.60
BL-2.2	--	--	--	--	--	--	--	--	--	21.08	27.20	25.90	22.50	17.73	11.50	6.60
BL-2.3	--	--	--	--	--	--	--	--	--	19.72	27.20	25.90	22.50	17.73	11.50	6.60
BL-2.4	--	--	--	--	--	--	--	--	--	19.62	26.40	25.80	22.50	17.73	11.60	6.60
BL-2.5	--	--	--	--	--	--	--	--	--	15.63	26.60	25.80	22.50	17.70	11.60	6.60
BL-2.6	--	--	--	--	--	--	--	--	--	13.89	24.70	21.70	22.50	17.70	11.60	6.60
BL-2.7	--	--	--	--	--	--	--	--	--	13.89	19.30	17.70	22.40	17.60	11.60	6.60
BL-2.8	--	--	--	--	--	--	--	--	--	12.16	14.30	12.40	13.30	17.60	11.60	6.60
BL-2.9	--	--	--	--	--	--	--	--	--	10.66	9.80	9.70	10.60	17.60	11.50	6.60
BL-2.10	--	--	--	--	--	--	--	--	--	9.72	8.60	8.40	8.50	17.60	11.50	6.60
BL-2.11	--	--	--	--	--	--	--	--	--	9.19	8.00	7.80	7.90	--	11.50	6.60
BL-2.12	--	--	--	--	--	--	--	--	--	9.52	7.50	7.60	--	--	--	6.60
BL-3.0	--	--	--	--	--	--	--	--	--	23.57	28.10	25.70	22.50	17.10	11.30	5.80
BL-3.1	--	--	--	--	--	--	--	--	--	21.35	27.90	25.70	22.60	17.20	11.30	5.90
BL-3.2	--	--	--	--	--	--	--	--	--	20.59	27.40	25.60	22.50	17.20	11.20	5.90
BL-3.3	--	--	--	--	--	--	--	--	--	20.11	27.40	25.60	22.50	17.10	11.20	5.90
BL-3.4	--	--	--	--	--	--	--	--	--	--	27.30	25.40	22.50	16.60	11.10	5.90
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Temperature (°C)												
Name	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009	9/8/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010
BL-1.0	7.33	8.58	8.44	8.19	28.58	23.80	21.21	13.29	10.72	3.11	22.82	25.68	17.25
BL-1.1	7.12	8.41	8.24	8.19	25.55	23.80	21.16	13.26	10.67	3.15	22.85	25.62	17.27
BL-1.2	7.17	8.39	8.09	8.18	25.39	23.78	21.14	13.22	10.62	3.17	22.84	25.53	17.26
BL-1.3	7.12	8.42	8.04	8.18	25.35	23.76	21.12	13.16	10.61	3.17	22.83	25.51	17.25
BL-1.4	6.99	8.45	8.05	8.18	25.32	23.75	21.10	13.01	10.61	3.27	22.81	25.47	17.24
BL-1.5	6.94	8.48	7.93	8.19	25.30	23.74	21.08	12.87	10.60	3.25	20.60	25.39	17.23
BL-1.6	6.85	8.55	7.98	8.19	25.28	23.74	20.82	12.82	10.60	3.32	17.89	24.77	17.23
BL-1.7	6.81	8.52	7.95	8.15	25.27	23.73	20.59	12.80	10.60	3.33	15.59	20.67	17.23
BL-1.8	6.71	8.52	7.89	8.01	24.95	23.72	20.50	12.77	10.59	3.33	13.51	16.05	17.22
BL-1.9	6.65	8.50	7.69	7.93	24.56	23.66	20.41	12.61	10.56	3.34	10.84	12.36	17.22
BL-1.10	6.52	8.38	7.82	7.83	20.65	23.05	20.34	12.42	10.57	3.35	9.08	10.27	17.19
BL-1.11	6.66	8.27	7.62	7.77	19.76	21.62	19.72	12.12	10.56	3.36	8.11	8.79	17.07
BL-1.12	6.70	8.08	7.49	7.72	19.72	18.56	15.37	10.89	10.55	3.36	7.49	--	--
BL-1.13	6.61	--	--	--	15.57	--	--	--	--	--	--	--	--
BL-1.14	6.61	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	6.83	8.37	8.05	8.48	25.56	23.68	20.96	13.67	10.73	2.14	22.66	25.94	17.42
BL-2.1	6.85	8.35	7.93	8.28	25.70	23.79	20.95	13.66	10.68	2.16	22.75	25.75	17.40
BL-2.2	6.89	8.35	7.91	8.20	25.72	23.78	20.84	13.59	10.59	2.17	22.75	25.55	17.37
BL-2.3	6.86	8.40	7.93	8.18	25.70	23.75	20.72	13.57	10.58	2.18	22.74	25.50	17.33
BL-2.4	7.02	8.48	7.93	8.14	25.69	23.73	20.66	13.52	10.57	2.18	22.73	25.46	17.32
BL-2.5	6.85	8.59	7.95	8.09	25.70	23.73	20.59	13.49	10.56	2.23	17.57	25.42	17.32
BL-2.6	6.85	8.67	7.96	8.03	25.65	23.71	20.52	13.49	10.57	2.23	15.30	25.34	17.31
BL-2.7	6.96	8.65	7.96	7.99	25.51	23.69	20.48	13.24	10.57	2.30	12.97	25.05	17.31
BL-2.8	6.98	8.45	7.88	7.90	25.48	23.68	20.46	12.92	10.55	2.31	11.52	21.03	17.30
BL-2.9	6.84	8.27	7.80	7.83	24.70	23.66	20.40	12.63	10.55	2.32	9.91	16.46	17.27
BL-2.10	6.81	8.09	7.71	7.78	24.97	23.45	20.36	12.38	10.56	2.33	8.39	12.44	16.89
BL-2.11	6.82	8.00	7.63	--	24.26	22.41	20.29	10.98	10.50	2.33	7.58	--	--
BL-2.12	6.89	7.92	7.55	--	24.07	--	19.21	9.18	--	2.41	--	--	--
BL-3.0	6.78	8.28	7.84	8.29	26.03	23.42	21.06	13.60	5.70	1.57	22.73	26.37	17.39
BL-3.1	6.71	8.27	7.85	8.14	26.03	23.53	20.99	13.67	5.72	1.71	22.87	26.06	17.15
BL-3.2	6.86	8.24	7.87	8.08	25.96	23.50	20.82	13.67	5.70	1.71	22.81	25.72	17.06
BL-3.3	6.71	--	7.91	8.03	25.89	23.49	20.60	13.62	5.72	1.73	22.77	25.37	16.88
BL-3.4	--	--	7.90	7.98	25.76	23.46	20.51	13.57	5.72	--	22.45	--	--
BL-3.5	--	--	--	7.87	25.61	23.41	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Temperature (°C)															
Name	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0	25.59	12.06	24.17	28.70	6.83	21.70	20.99	5.82	12.22	26.00	4.18	--	--	15.90	27.00	21.80
BL-1.1	25.16	12.04	24.11	28.52	6.78	22.08	20.70	5.75	11.97	25.10	4.26	14.95	25.56	15.70	26.90	21.80
BL-1.2	24.64	11.98	21.96	28.42	6.70	22.11	20.63	5.73	11.94	24.88	4.19	14.88	24.55	15.50	26.90	21.80
BL-1.3	23.77	11.96	21.11	27.87	6.66	22.09	20.57	5.69	11.87	24.71	4.19	13.82	24.10	15.30	26.90	21.80
BL-1.4	23.14	11.96	19.36	27.52	6.51	19.92	20.63	5.69	11.76	24.65	4.25	13.21	23.95	15.20	26.80	21.80
BL-1.5	22.49	11.95	17.41	26.27	6.57	17.66	20.57	5.68	11.00	24.35	4.14	12.78	23.39	15.10	26.80	21.70
BL-1.6	19.00	11.95	16.05	24.00	6.41	16.85	20.63	5.67	10.49	23.70	4.16	11.76	22.55	15.00	26.40	21.70
BL-1.7	16.01	11.95	14.79	21.55	6.47	14.82	20.55	5.74	10.20	20.22	4.14	10.43	19.35	15.00	22.30	21.70
BL-1.8	13.22	11.95	13.11	18.10	6.53	12.83	20.56	5.65	9.71	17.04	4.27	9.38	14.18	14.80	16.10	19.80
BL-1.9	11.39	11.94	11.70	13.70	6.43	11.66	20.59	5.65	9.34	14.08	4.28	7.85	10.50	13.70	12.20	13.30
BL-1.10	9.73	11.93	9.71	11.47	6.38	10.30	20.40	5.70	9.06	11.50	4.26	7.36	8.32	11.00	10.10	10.70
BL-1.11	8.06	11.78	8.45	9.44	6.45	8.70	17.90	5.68	8.71	9.83	4.18	6.95	7.55	8.40	8.90	--
BL-1.12	7.20	11.57	--	8.15	--	--	12.86	--	--	9.10	4.18	6.59	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	4.22	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	25.63	11.89	23.73	29.08	6.68	21.34	21.36	5.95	12.87	27.25	4.21	--	--	15.30	26.90	21.90
BL-2.1	25.53	11.89	23.74	28.46	6.69	21.48	21.15	5.92	13.03	25.48	4.26	15.65	24.77	15.20	26.90	21.90
BL-2.2	25.48	11.90	23.66	28.30	6.68	21.57	20.97	5.87	12.94	24.91	4.29	15.67	23.86	15.10	26.80	21.90
BL-2.3	25.31	11.89	13.63	28.05	6.64	21.35	20.71	5.88	12.97	24.65	4.13	15.35	23.71	15.00	26.80	21.80
BL-2.4	23.96	11.87	13.54	27.36	6.62	18.08	20.40	5.84	12.77	24.47	4.27	13.42	23.48	14.90	26.80	21.70
BL-2.5	22.18	11.85	18.07	26.56	6.58	17.41	20.36	5.86	12.76	24.29	4.30	11.28	23.42	14.80	26.80	21.70
BL-2.6	19.90	11.85	15.37	24.34	6.63	16.50	20.38	5.86	12.66	23.83	4.24	10.64	23.11	14.80	26.10	21.60
BL-2.7	16.74	11.84	13.92	20.45	6.55	15.36	17.19	5.84	12.52	20.25	4.25	10.10	22.13	14.60	21.90	21.30
BL-2.8	12.25	11.82	12.28	17.40	6.54	13.39	12.28	5.84	9.98	16.84	4.30	9.77	20.25	14.20	16.90	16.90
BL-2.9	9.09	11.81	10.28	13.82	6.63	11.06	10.25	5.82	9.16	13.43	4.32	9.11	14.61	14.00	12.50	13.10
BL-2.10	8.20	11.80	9.05	11.88	6.63	8.92	9.10	5.84	8.47	--	4.40	8.82	11.27	13.80	10.30	10.70
BL-2.11	7.75	11.77	8.24	10.56	6.61	8.35	--	--	8.31	--	--	8.28	--	11.60	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	6.85	--	--	--	--
BL-3.0	25.73	11.94	8.07	29.89	6.88	20.04	21.62	5.85	14.25	26.88	NS	--	--	--	26.80	21.00
BL-3.1	25.64	11.88	7.95	28.53	6.84	20.16	20.68	5.60	14.02	26.45	NS	15.70	23.98	15.80	26.70	20.80
BL-3.2	25.54	11.81	7.94	28.34	6.88	20.20	20.50	5.51	14.08	25.79	NS	15.74	23.49	15.00	26.60	20.60
BL-3.3	25.39	11.67	7.91	28.17	6.80	17.98	20.39	5.41	13.82	24.88	NS	15.63	23.51	14.90	26.50	20.30
BL-3.4	24.92	11.55	7.91	27.68	--	16.78	--	--	13.60	24.47	NS	15.52	--	14.80	26.40	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 2

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	12.6	24.9	7.3	21.9	20.4	22.1	24.1	17.9	22.7	23.9	12.8	15.6	22.3	15.9
BL-3.1	12.3	24.8	7.3	21.7	20.1	21.8	24.1	17.9	21.7	23.6	12.8	14.9	22	15.9
BL-3.2	12.1	24.6	7.3	21.0	19.9	21.5	24.1	17.8	21.4	23.5	12.8	14.7	21.9	15.8
BL-3.3	11.9	24.4	--	20.2	19.8	21.3	24.0	17.8	20.6	23.2	12.8	14.4	21.9	15.8
BL-3.4	11.7	24.4	--	16.6	19.6	21.2	23.7	--	17.6	--	--	--	21.5	--
BL-3.5	--	--	--	14.4	--	20.7	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 3

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (uS/cm)													
	6/7/2002	8/9/2002	9/12/2002	5/16/2007	7/10/2007	8/30/2007	9/10/2007	6/3/2008	7/30/2008	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008
BL-1.0	241	275	275	236	201	202	251	--	254	284	137	268	197	270
BL-1.1	--	--	--	--	--	--	--	174	253	283	135	267	199	271
BL-1.2	--	--	--	--	--	--	--	170	253	283	135	268	200	267
BL-1.3	263	274	252	--	--	--	--	167	253	282	134	268	199	271
BL-1.4	--	--	--	--	--	--	--	164	252	282	134	267	198	272
BL-1.5	--	--	--	--	--	--	--	160	252	281	134	267	198	268
BL-1.6	--	--	--	--	--	--	--	141	250	270	134	271	202	270
BL-1.7	268	267	262	--	--	--	250	121	239	241	135	268	196	271
BL-1.8	--	--	--	--	--	--	--	100	218	213	137	268	200	270
BL-1.9	--	--	--	--	--	--	--	97	194	197	135	269	198	270
BL-1.10	266	260	253	--	--	--	--	89	175	185	136	269	200	271
BL-1.11	--	--	--	--	--	--	--	114	162	177	167	268	201	272
BL-1.12	--	--	--	--	--	--	--	91	158	182	347	264	197	271
BL-1.13	271	--	--	--	--	--	245	--	153	192	--	--	--	--
BL-1.14	--	--	275	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	261	271	259	--	--	--	--	--	256	279	136	269	202	271
BL-2.1	--	--	--	--	--	--	--	192	254	278	135	267	196	271
BL-2.2	--	--	--	--	--	--	--	184	254	278	135	266	200	270
BL-2.3	262	267	251	--	--	--	--	172	254	278	135	273	200	269
BL-2.4	--	--	--	--	--	--	--	170	252	277	135	268	197	271
BL-2.5	--	284	--	--	--	--	--	144	251	277	135	267	199	268
BL-2.6	--	--	--	--	--	--	--	130	241	254	135	270	202	269
BL-2.7	280	--	251	--	--	--	--	126	212	230	135	268	201	270
BL-2.8	--	--	--	--	--	--	--	121	187	201	134	268	199	270
BL-2.9	--	--	--	--	--	--	--	111	165	187	135	267	201	271
BL-2.10	269	--	255	--	--	--	--	104	160	184	145	269	203	269
BL-2.11	--	--	--	--	--	--	--	100	159	191	161	--	197	271
BL-2.12	--	--	--	--	--	--	--	99	166	201	--	--	--	268
BL-2.13	259	266	248	--	--	--	--	--	255	276	137	268	199	269
BL-3.0	259	266	248	--	--	--	--	--	255	276	137	268	199	269
BL-3.1	--	--	--	--	--	--	--	293	258	277	137	268	201	273
BL-3.2	--	--	--	--	--	--	--	198	255	276	136	268	200	272
BL-3.3	--	--	--	--	--	--	--	185	255	276	136	272	201	272
BL-3.4	245	--	249	--	--	--	--	178	254	275	136	269	197	271
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 3

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Conductivity (uS/cm)														
Name	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009	9/8/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1.0	162	342	255	335	198	190	331	206	465	315	251	234	242	290	271
BL-1.1	163	339	250	335	198	191	329	206	463	325	251	234	242	289	269
BL-1.2	163	337	249	335	198	190	329	205	459	323	251	233	242	289	260
BL-1.3	160	335	249	335	197	190	328	205	459	323	251	233	242	287	258
BL-1.4	160	331	248	335	197	190	328	204	458	324	250	233	242	287	258
BL-1.5	162	319	247	335	197	190	327	204	457	319	236	233	242	284	259
BL-1.6	161	302	246	334	197	190	325	203	457	322	211	230	242	290	257
BL-1.7	163	293	240	320	197	190	323	203	456	320	210	204	242	288	259
BL-1.8	170	286	235	314	196	190	322	203	475	325	198	182	241	287	259
BL-1.9	162	282	228	309	196	190	321	202	659	325	185	166	241	287	258
BL-1.10	163	276	216	301	176	187	321	201	795	323	180	158	241	288	260
BL-1.11	162	272	205	282	174	179	317	200	834	322	175	153	236	289	258
BL-1.12	160	266	199	264	173	170	282	196	856	322	171	--	--	289	262
BL-1.13	163	--	--	--	156	--	--	--	--	--	--	--	--	--	--
BL-1.14	160	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	160	338	254	334	199	191	325	208	728	311	261	235	243	290	288
BL-2.1	161	337	254	334	199	191	325	206	726	311	262	235	243	290	271
BL-2.2	162	330	253	333	199	191	324	207	724	310	261	234	243	290	270
BL-2.3	162	322	248	332	199	191	323	207	723	311	261	233	242	290	270
BL-2.4	162	317	247	221	199	191	323	207	720	313	261	233	242	288	269
BL-2.5	159	304	246	321	199	190	322	207	718	310	256	233	242	287	268
BL-2.6	160	297	244	318	198	190	321	207	717	311	256	233	242	290	268
BL-2.7	160	293	242	310	198	190	322	205	717	311	254	231	242	291	268
BL-2.8	161	284	231	304	198	190	321	204	718	314	255	208	242	290	268
BL-2.9	162	279	217	294	195	191	320	202	724	310	256	186	242	291	267
BL-2.10	162	276	212	220	194	189	321	201	754	315	258	167	236	292	267
BL-2.11	159	274	204	--	197	184	319	195	766	312	259	--	--	292	267
BL-2.12	159	271	198	--	198	--	311	194	--	312	--	--	--	--	--
BL-2.13	--	--	194	--	194	--	--	--	--	--	--	--	--	--	--
BL-3.0	161	336	254	219	201	191	326	367	557	309	261	238	243	290	262
BL-3.1	161	331	254	328	201	191	326	368	555	309	261	237	242	290	259
BL-3.2	161	321	290	325	200	190	323	370	554	308	261	235	242	290	259
BL-3.3	159	--	246	322	200	190	322	371	554	311	262	233	241	289	258
BL-3.4	--	--	246	319	199	190	322	372	553	--	262	--	--	289	262
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 3

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (uS/cm)													
	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0	400	344	590	243	431	302	233	366	509	--	--	375	380.3	380.4
BL-1.1	440	349	599	243	412	293	231	356	509	514	430	374	380.2	380.3
BL-1.2	492	353	614	256	416	295	231	355	509	528	428	374	380.1	380.3
BL-1.3	508	356	624	262	423	297	230	355	511	533	427	374	380.1	380.3
BL-1.4	547	359	636	253	419	299	230	355	513	542	427	374	380.1	380.3
BL-1.5	576	365	646	243	428	304	226	355	512	556	423	374	380.0	380.3
BL-1.6	594	374	650	256	428	308	223	346	513	561	418	374	378.5	380.3
BL-1.7	608	389	659	240	435	310	223	323	514	566	405	374	368.3	380.4
BL-1.8	636	406	661	232	442	314	220	350	513	575	392	374	359.7	371.6
BL-1.9	646	612	666	224	435	317	217	349	514	591	392	371	355.9	355.9
BL-1.10	664	604	672	223	414	316	217	352	517	608	399	368	355.4	354.4
BL-1.11	679	125	670	215	--	320	215	349	517	617	402	377	357.6	--
BL-1.12	--	122	--	--	--	--	--	353	517	624	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	518	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	466	679	583	247	456	322	236	360	508	--	--	374	380.2	381.0
BL-2.1	498	671	599	230	446	333	235	356	508	594	435	374	380.0	381.0
BL-2.2	526	669	600	237	445	335	236	356	508	594	431	374	380.0	381.0
BL-2.3	551	662	602	238	451	341	236	355	509	596	431	374	380.0	380.9
BL-2.4	577	662	603	222	451	344	235	355	511	595	430	374	379.8	380.9
BL-2.5	644	665	605	224	459	341	235	355	511	603	430	374	379.9	380.9
BL-2.6	685	670	606	224	458	336	235	354	512	606	428	374	377.4	381.2
BL-2.7	704	687	606	224	440	349	234	353	512	610	423	374	367.3	381.2
BL-2.8	719	138	604	217	398	350	222	349	513	613	408	373	359.9	360.9
BL-2.9	739	134	603	211	390	351	217	349	514	617	391	373	355.0	356.0
BL-2.10	754	126	602	197	390	352	214	--	514	621	395	373	361.8	368.8
BL-2.11	774	124	--	195	--	--	213	--	--	628	--	370	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	634	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	643	--	--	--	--
BL-3.0	530	734	617	232	507	355	243	359	NS	--	--	375	382.8	382.9
BL-3.1	584	724	592	228	478	356	242	358	NS	597	434	375	382.8	383.0
BL-3.2	608	722	591	237	480	360	242	356	NS	597	432	375	382.4	383.7
BL-3.3	626	718	589	229	483	361	240	355	NS	598	431	374	381.9	383.7
BL-3.4	643	720	--	230	--	--	239	356	NS	600	--	--	386.6	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 3

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (uS/cm)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	284.4	400.8	263.4	400.3	362.2	369.1	371.5	357.7	355.5	358.7	404.2	408.1	438.8	417.7
BL-3.1	281.0	399.2	263.4	398.3	360.4	368.9	371.5	357.7	355.6	358.5	404.1	407.6	437.5	410.9
BL-3.2	279.6	398.9	263.3	391.5	358.3	367.0	371.1	357.8	355.4	358.6	402.4	406.4	437.8	410.1
BL-3.3	278.6	397.2	--	381.8	355.4	366.6	371.2	358.2	354.9	358.9	398.9	405.7	438.3	410.1
BL-3.4	277.1	398.2	--	349.4	337.2	368.5	372.0	--	353.6	--	--	--	445.9	--
BL-3.5	--	--	--	332.7	--	358.4	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)															
Name	5/21/2002	6/7/2002	6/28/2002	7/10/2002	7/25/2002	8/9/2002	9/6/2002	9/12/2002	11/22/2002	4/24/2003	5/9/2003	5/20/2003	6/5/2003	6/17/2003	7/3/2003	7/17/2003
BL-1.0	--	--	--	--	--	--	--	8.70	14.60	13.50	11.00	10.10	9.80	9.20	8.60	7.80
BL-1.1	11.70	9.40	7.50	9.20	8.60	8.30	8.60	9.30	14.70	13.90	10.30	9.70	8.70	8.50	7.90	7.80
BL-1.2	10.80	11.40	7.50	9.30	8.50	8.30	8.60	9.50	14.60	14.00	11.00	9.80	9.30	8.40	8.30	7.50
BL-1.3	10.60	10.00	7.90	9.30	8.50	8.30	8.60	9.40	14.20	14.00	9.90	10.30	8.00	8.40	9.00	8.30
BL-1.4	10.50	10.30	8.40	9.10	8.50	8.00	8.60	9.40	13.70	14.10	10.00	9.90	7.30	8.60	8.90	7.70
BL-1.5	10.40	11.30	7.90	8.80	8.30	7.90	8.50	9.40	13.30	13.90	10.30	9.40	7.00	7.30	8.00	8.10
BL-1.6	10.10	12.00	7.60	9.40	6.20	6.60	7.80	7.10	13.00	13.60	9.60	8.70	5.60	4.90	4.50	5.90
BL-1.7	9.30	10.50	8.00	9.40	5.60	**2.40**	6.00	4.30	12.70	13.00	9.10	7.90	5.50	4.20	**3.50**	**2.80**
BL-1.8	6.60	10.10	4.90	4.50	**3.80**	**0.90**	4.80	**1.80**	12.60	12.70	7.80	7.20	5.70	4.70	**2.50**	**2.50**
BL-1.9	4.50	5.50	**1.60**	**1.20**	**1.00**	**0.70**	**1.40**	**0.70**	12.60	12.10	6.20	5.70	4.70	**3.40**	**0.30**	**0.50**
BL-1.10	**3.50**	**2.80**	**0.30**	**0.30**	**0.80**	**0.70**	**0.50**	**0.40**	12.30	11.50	5.60	4.10	**2.00**	**0.80**	**0.00**	**0.10**
BL-1.11	**2.20**	**1.30**	**0.30**	**0.20**	**0.50**	**0.50**	**0.30**	**0.20**	8.90	10.70	**3.50**	4.80	**0.10**	**0.10**	**0.00**	**0.00**
BL-1.12	**0.60**	**1.10**	--	**0.10**	**0.50**	**0.50**	**0.20**	**0.10**	**2.40**	8.80	**0.90**	**0.20**	**0.10**	**0.10**	**0.00**	**0.00**
BL-1.13	--	--	--	**0.10**	--	--	--	--	**1.20**	**3.20**	--	--	**0.00**	**0.00**	**0.00**	**0.00**
BL-1.14	--	--	--	--	--	--	--	--	--	**0.60**	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)															
Name	8/12/2003	8/26/2003	9/4/2003	9/11/2003	9/25/2003	9/25/2003	10/7/2003	10/7/2003	10/21/2003	10/28/2003	11/7/2003	4/16/2004	4/29/2004	5/12/2004	5/20/2004	5/25/2004
BL-1.0	8.70	8.40	7.40	9.30	7.30	7.50	8.20	8.00	8.50	8.90	9.50	12.40	11.80	9.70	9.00	8.40
BL-1.1	8.70	8.30	7.40	9.20	7.40	7.50	8.10	7.90	8.50	9.00	9.50	12.40	11.80	10.60	9.00	8.50
BL-1.2	8.50	7.30	7.10	9.70	7.50	7.30	7.90	7.90	8.50	8.80	9.50	12.40	11.80	11.20	9.00	8.50
BL-1.3	8.40	7.20	7.00	9.40	7.50	7.20	7.80	7.80	8.40	8.70	9.20	12.40	11.80	11.10	9.00	9.00
BL-1.4	5.90	6.50	7.00	9.20	7.50	7.00	7.70	7.70	8.40	8.50	8.90	12.40	11.80	11.10	10.10	9.80
BL-1.5	5.60	**1.60**	7.00	7.40	7.40	6.80	7.50	7.70	8.30	8.30	8.50	12.20	11.80	11.40	10.30	10.00
BL-1.6	**2.00**	**1.20**	**1.20**	4.00	7.20	5.80	7.40	7.50	8.30	8.30	7.50	12.00	12.80	12.50	12.70	11.20
BL-1.7	**0.10**	**0.40**	**1.10**	**1.30**	**3.10**	**1.70**	7.40	7.40	8.30	8.30	7.20	11.80	11.40	12.20	13.50	13.90
BL-1.8	**0.10**	**0.20**	**0.00**	**0.00**	**0.10**	**0.10**	**3.20**	6.70	8.30	8.00	7.10	11.80	11.30	9.90	11.00	12.00
BL-1.9	**0.10**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.10**	**0.10**	4.10	7.00	5.10	11.60	10.70	9.40	7.90	7.90
BL-1.10	**0.00**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.20**	**0.10**	**0.10**	11.40	10.00	8.20	6.80	6.10
BL-1.11	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	--	**0.00**	**0.10**	**0.00**	**0.10**	11.00	9.20	6.60	5.50	**3.80**
BL-1.12	**0.00**	--	**0.00**	**0.00**	**0.00**	--	--	**0.00**	**0.00**	**0.00**	**0.10**	9.90	7.50	**3.70**	**0.70**	**0.20**
BL-1.13	**0.00**	--	--	--	**0.00**	--	--	--	--	--	--	**--**	--	**0.10**	**0.10**	**0.10**
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)													
Name	6/9/2004	6/18/2004	6/24/2004	7/8/2004	7/29/2004	8/26/2004	9/1/2004	10/21/2004	11/13/2004	11/23/2004	4/26/2005	5/12/2005	5/31/2005	6/16/2005
BL-1.0	9.70	8.70	9.30	8.70	8.80	9.30	10.00	8.70	9.20	10.90	12.60	11.60	10.70	8.10
BL-1.1	9.90	9.10	9.40	8.80	9.20	9.40	9.10	8.70	9.10	10.90	12.60	11.60	10.30	8.10
BL-1.2	10.00	9.40	9.30	8.90	9.10	9.50	9.20	8.70	9.10	10.90	12.60	11.60	10.90	8.10
BL-1.3	10.00	9.40	9.20	9.10	9.10	9.60	9.20	8.60	9.10	10.60	12.60	11.70	11.50	9.00
BL-1.4	9.70	9.20	9.70	8.90	8.90	9.30	8.60	8.60	9.10	10.30	12.60	11.30	11.60	11.60
BL-1.5	9.40	8.80	9.10	8.70	6.90	8.60	8.50	8.60	9.10	9.10	12.60	11.20	10.90	11.80
BL-1.6	9.50	9.40	8.90	8.20	5.70	4.30	5.20	8.60	9.10	8.70	12.60	11.80	9.70	10.90
BL-1.7	10.20	9.60	9.00	7.20	6.10	**2.60**	**1.50**	8.50	9.10	8.50	11.70	10.10	8.20	9.20
BL-1.8	11.80	10.60	11.60	9.40	7.00	**1.80**	**2.30**	7.50	9.10	8.50	11.10	8.90	5.80	5.70
BL-1.9	6.70	8.10	8.10	7.60	4.00	**0.40**	**0.10**	6.00	9.20	8.50	9.90	6.70	**3.30**	**0.90**
BL-1.10	**3.60**	**3.10**	**3.80**	**0.80**	**0.10**	**0.10**	**0.00**	**0.20**	9.30	8.50	9.20	4.80	**0.70**	**0.20**
BL-1.11	**0.60**	**0.20**	**0.20**	**0.00**	**0.10**	**0.10**	**0.00**	**0.10**	9.30	8.20	8.80	**2.00**	**0.30**	**0.10**
BL-1.12	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.00**	**0.00**	**0.10**	8.10	7.70	7.40	--	**0.10**	**0.10**
BL-1.13	**--**	--	--	--	--	**0.00**	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)													
Name	7/12/2005	7/21/2005	8/3/2005	8/17/2005	9/1/2005	10/5/2005	3/31/2006	4/28/2006	5/23/2006	6/16/2006	7/20/2006	6/17/2019	7/11/1905	7/11/1905
BL-1.0	8.40	8.10	7.20	7.60	7.30	7.90	13.20	11.20	10.20	8.20	8.40	8.40	8.60	9.20
BL-1.1	8.50	8.10	7.40	7.60	7.40	8.00	13.30	11.20	10.30	8.60	8.50	8.40	8.50	9.30
BL-1.2	8.80	8.20	7.40	7.70	7.50	8.30	13.70	11.20	10.50	8.80	8.40	8.40	8.60	9.30
BL-1.3	8.90	8.30	7.40	7.60	7.40	8.30	13.70	11.20	10.50	8.80	8.80	8.40	8.40	9.20
BL-1.4	8.60	8.10	7.10	7.50	7.40	8.00	13.80	11.20	10.50	8.60	8.40	8.40	8.00	9.00
BL-1.5	8.70	8.20	7.40	7.30	7.40	7.70	13.80	11.20	10.50	8.30	4.80	8.40	7.80	8.70
BL-1.6	8.90	7.80	7.60	6.60	5.60	7.10	13.80	12.20	10.10	8.80	7.60	8.40	4.20	8.70
BL-1.7	7.40	7.40	6.60	5.20	**3.60**	5.20	13.70	10.80	9.60	9.00	6.60	8.40	**2.50**	8.00
BL-1.8	5.80	5.00	**3.50**	**2.70**	**1.90**	**0.20**	13.60	10.70	8.80	10.00	**2.40**	8.40	**1.80**	6.80
BL-1.9	**0.60**	**0.20**	**1.00**	**0.60**	**0.20**	**0.10**	13.20	10.20	**6.30**	7.60	**1.00**	8.40	**0.30**	**0.20**
BL-1.10	**0.10**	**0.10**	**0.10**	**0.20**	**0.10**	**0.10**	13.00	9.50	4.80	**2.90**	**0.40**	8.40	**0.10**	**0.10**
BL-1.11	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**--**	12.70	8.70	4.20	**0.20**	**0.10**	8.40	**0.00**	**0.10**
BL-1.12	**0.10**	**0.10**	**--**	**0.10**	**0.10**	**--**	12.00	7.10	**0.20**	**0.10**	**0.10**	8.40	**0.00**	**0.10**
BL-1.13	--	**0.10**	--	--	--	--	--	--		--	--	8.40	**0.00**	**0.10**
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	8.40	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	8.63	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	--	--	8.29	--	--
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	8.42	--	--
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	8.36	--	--
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	8.31	--	--
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	8.28	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)														
Name	4/5/2007	5/3/2007	5/16/2007	6/20/2007	7/10/2007	7/25/2007	8/30/2007	9/18/2007	10/3/2007	6/3/2008	7/30/2008	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008
BL-1.0	12.60	11.90	10.40	8.40	7.20	7.50	6.80	9.30	8.60	--	7.40	8.10	8.90	7.70	5.70	7.30
BL-1.1	12.60	11.90	10.50	8.40	7.60	7.60	7.20	9.40	8.60	**2.90**	7.50	7.30	8.90	7.90	5.40	6.90
BL-1.2	12.60	11.90	10.60	8.50	7.70	7.70	7.40	9.40	8.60	**3.50**	7.70	7.30	8.80	7.50	5.20	6.60
BL-1.3	12.60	11.90	10.70	8.60	8.00	8.00	7.50	9.40	8.60	**3.60**	7.50	7.30	8.80	7.50	5.30	6.60
BL-1.4	12.60	11.90	11.00	8.90	8.10	8.10	7.50	9.00	8.50	4.30	7.20	7.40	8.80	7.50	5.50	6.70
BL-1.5	12.40	11.90	12.80	9.80	8.10	8.10	7.40	8.70	8.40	4.30	7.60	7.60	8.80	7.50	5.60	6.90
BL-1.6	12.20	12.90	13.30	11.70	8.90	8.90	6.00	7.90	8.20	5.00	7.20	6.10	8.70	7.60	5.60	7.00
BL-1.7	12.00	11.50	12.10	12.00	10.60	10.60	5.40	**2.50**	6.90	5.70	6.30	5.50	7.30	7.60	5.80	7.10
BL-1.8	12.00	11.40	10.90	6.50	8.80	8.80	4.60	**0.10**	**1.00**	6.70	7.40	5.80	5.70	7.50	5.80	7.30
BL-1.9	11.80	10.80	10.60	**3.10**	**3.60**	**3.60**	**1.80**	**0.10**	**0.10**	6.70	8.40	5.10	**3.90**	7.50	5.90	7.50
BL-1.10	11.60	10.10	9.60	**0.40**	**0.60**	**0.60**	**0.30**	**0.10**	**0.10**	6.50	8.50	**3.70**	**2.70**	7.40	6.20	7.60
BL-1.11	11.20	9.30	7.50	**0.10**	**0.20**	**0.20**	**0.20**	**0.10**	**0.10**	6.50	5.80	**1.60**	**2.30**	7.20	6.10	7.70
BL-1.12	10.10	7.60	5.20	**0.10**	**0.10**	**0.10**	**--**	**0.10**	**0.10**	6.10	**2.50**	**0.70**	**1.90**	**1.50**	6.20	7.70
BL-1.13	--	--	--	--	--	--	--	--	--	--	**0.30**	**0.50**	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	7.30	9.00	8.60	7.80	7.50	8.80
BL-2.1	--	--	--	--	--	--	--	--	--	**3.20**	7.40	8.60	8.60	7.70	7.30	8.10
BL-2.2	--	--	--	--	--	--	--	--	--	**3.50**	7.50	9.00	8.60	7.80	6.60	7.90
BL-2.3	--	--	--	--	--	--	--	--	--	**3.70**	7.60	8.90	8.70	7.90	6.50	7.90
BL-2.4	--	--	--	--	--	--	--	--	--	**3.70**	7.70	8.50	8.80	7.90	6.50	7.90
BL-2.5	--	--	--	--	--	--	--	--	--	4.80	7.40	8.60	8.80	7.80	5.60	8.00
BL-2.6	--	--	--	--	--	--	--	--	--	5.10	5.90	6.10	8.90	7.90	6.60	8.10
BL-2.7	--	--	--	--	--	--	--	--	--	5.10	6.20	4.90	8.90	7.80	6.60	8.10
BL-2.8	--	--	--	--	--	--	--	--	--	5.80	6.70	5.10	9.40	7.80	6.70	8.10
BL-2.9	--	--	--	--	--	--	--	--	--	5.90	4.10	4.20	4.60	7.80	6.70	8.30
BL-2.10	--	--	--	--	--	--	--	--	--	5.60	**1.00**	**1.40**	**3.50**	7.80	6.70	8.40
BL-2.11	--	--	--	--	--	--	--	--	--	4.70	**0.20**	**0.90**	**2.40**	7.80	6.80	8.40
BL-2.12	--	--	--	--	--	--	--	--	--	6.00	**0.10**	**0.90**	--	--	--	8.50
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	--	--	--	--	--	--	--	--	--	**1.60**	7.50	8.20	8.80	8.60	8.30	9.90
BL-3.1	--	--	--	--	--	--	--	--	--	**2.60**	7.50	10.00	8.70	7.90	7.60	9.40
BL-3.2	--	--	--	--	--	--	--	--	--	**2.90**	7.70	8.20	8.70	7.80	7.50	9.30
BL-3.3	--	--	--	--	--	--	--	--	--	**3.00**	7.80	8.30	8.70	7.70	7.50	9.40
BL-3.4	--	--	--	--	--	--	--	--	--	--	8.00	8.20	8.80	7.80	7.50	9.40
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)														
Name	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009	9/8/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1.0	14.84	12.80	9.43	9.79	8.07	6.94	8.04	9.05	10.53	14.10	8.30	7.55	10.00	8.99	12.33
BL-1.1	12.49	11.78	9.43	9.79	7.91	6.89	7.60	8.50	8.90	13.72	8.52	7.41	9.20	9.05	11.78
BL-1.2	12.18	11.65	9.48	9.41	8.08	6.84	7.50	8.85	8.61	13.35	8.23	7.29	9.22	9.15	11.31
BL-1.3	12.09	11.70	9.56	9.34	8.18	6.73	7.75	8.31	8.80	13.20	8.10	7.45	8.88	9.40	11.01
BL-1.4	12.13	11.85	9.62	9.38	8.19	6.73	7.95	8.03	8.43	13.05	8.20	7.27	8.77	8.90	11.01
BL-1.5	12.23	12.22	9.51	9.48	8.27	6.78	8.09	7.30	8.85	12.98	10.30	6.64	8.80	8.30	10.71
BL-1.6	12.26	12.92	9.48	9.37	8.41	6.75	8.26	7.41	8.53	12.81	10.22	6.08	8.72	9.56	10.50
BL-1.7	12.40	12.86	9.63	9.54	8.46	6.74	8.30	7.54	8.40	12.68	10.66	5.38	8.50	11.14	10.45
BL-1.8	12.52	13.27	9.85	9.10	8.37	6.71	8.13	7.10	8.15	12.56	10.75	7.18	8.58	10.49	10.48
BL-1.9	12.45	13.28	10.36	8.78	8.42	6.60	8.01	6.61	8.35	12.57	9.72	7.65	8.40	9.53	10.48
BL-1.10	12.38	13.25	11.17	8.52	6.33	6.03	7.85	6.03	7.95	12.52	9.05	4.95	8.69	6.22	10.22
BL-1.11	12.38	12.64	11.79	8.61	5.63	4.95	7.44	4.65	7.88	12.46	8.00	**1.62**	4.35	**3.36**	9.48
BL-1.12	12.37	11.08	11.24	9.28	5.51	**3.93**	**1.87**	**1.27**	7.86	12.46	4.83	--	--	**1.99**	8.07
BL-1.13	12.39	--	--	--	6.41	--	--	--	--	--	--	--	--	--	--
BL-1.14	12.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	18.87	13.41	9.83	11.18	9.20	9.62	8.31	9.10	9.51	14.96	9.20	7.72	11.07	9.50	12.60
BL-2.1	15.04	11.30	9.42	9.83	8.21	8.70	8.01	8.29	9.01	14.41	8.50	7.29	10.50	9.15	11.80
BL-2.2	14.16	11.30	9.35	9.39	8.16	8.24	8.01	8.25	8.68	14.15	8.30	7.23	10.28	9.30	11.53
BL-2.3	13.52	11.76	9.58	9.23	8.23	7.83	8.24	8.08	8.63	14.00	8.21	6.88	9.48	9.44	11.43
BL-2.4	13.22	11.91	9.51	9.42	8.32	7.43	8.37	8.10	8.36	13.94	8.11	7.06	9.24	8.95	10.98
BL-2.5	13.01	12.49	9.61	9.18	8.32	7.32	8.37	7.91	8.60	14.00	9.39	6.76	9.06	8.51	10.79
BL-2.6	12.90	12.64	9.59	9.41	8.37	7.13	8.35	7.86	8.58	13.85	9.92	6.95	8.57	8.05	10.77
BL-2.7	12.86	12.97	9.67	8.65	8.32	6.89	8.19	7.81	8.69	13.66	9.43	6.62	8.64	7.35	10.76
BL-2.8	12.82	12.79	10.10	8.10	8.34	6.79	8.21	7.43	8.80	13.70	8.67	5.23	8.77	7.22	10.66
BL-2.9	12.82	11.86	10.98	7.92	7.60	6.68	8.01	7.15	8.84	13.68	7.65	6.70	8.52	**3.90**	10.68
BL-2.10	12.82	11.53	11.19	8.11	7.36	6.37	7.94	6.62	8.54	13.72	4.10	4.53	7.34	**1.60**	10.66
BL-2.11	12.79	11.28	10.82	--	7.32	5.21	7.54	**3.11**	8.56	13.65	**1.65**	--	--	**1.14**	10.71
BL-2.12	12.82	11.19	10.02	--	6.77	--	5.71	**1.00**	--	13.50	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	15.53	11.30	9.19	13.27	8.07	7.21	8.14	8.29	9.10	15.74	8.59	7.36	11.65	9.56	13.40
BL-3.1	14.57	11.32	9.44	9.11	7.93	6.70	8.07	8.19	9.01	15.10	8.10	6.95	10.42	9.17	13.09
BL-3.2	14.17	--	9.46	8.80	7.88	6.53	8.07	8.12	9.17	14.96	7.94	6.70	9.10	9.18	12.47
BL-3.3	--	--	9.25	8.90	7.82	6.41	8.24	8.15	9.14	14.76	7.70	6.71	9.18	8.90	12.41
BL-3.4	--	--	--	8.39	8.00	6.27	8.30	7.16	9.04	--	7.69	--	--	8.91	12.25
BL-3.5	--	--	--	8.23	--	6.25	--	--	--	--	--	--	--	--	--

NOTES:

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LaBella Associates, DPC

April 2022

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Dissolved Oxygen (mg/L)													
Name	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0	9.14	7.96	12.75	9.68	7.58	11.13	14.12	7.12	15.15	--	--	7.30	5.18	4.00
BL-1.1	8.64	7.46	12.24	9.38	7.68	10.90	13.30	6.42	14.26	9.90	7.01	6.41	6.05	4.53
BL-1.2	9.87	7.52	11.66	9.24	7.54	10.77	12.91	6.63	14.01	10.03	7.02	6.44	6.56	5.14
BL-1.3	9.38	7.54	11.40	9.19	7.61	10.45	12.48	6.11	14.21	10.27	7.15	6.50	6.65	5.54
BL-1.4	9.94	7.53	11.10	10.97	7.43	10.18	12.17	5.97	13.95	10.51	7.04	6.30	6.81	5.93
BL-1.5	10.80	7.73	11.01	10.09	7.20	10.06	12.04	4.82	13.69	10.70	6.22	6.48	6.88	6.26
BL-1.6	11.19	8.02	10.91	9.14	7.13	9.88	11.77	**3.25**	13.45	10.88	5.48	6.58	6.70	6.49
BL-1.7	11.16	7.90	10.87	8.49	7.05	9.70	11.62	**3.47**	13.55	10.90	4.51	6.42	5.60	6.87
BL-1.8	10.44	5.95	10.73	8.75	6.65	9.60	10.13	**3.46**	14.40	10.75	**3.75**	6.54	6.07	4.21
BL-1.9	6.50	4.20	10.78	8.38	**1.70**	9.58	9.62	**2.81**	13.44	9.74	**3.55**	**3.96**	4.54	**1.89**
BL-1.10	4.50	**1.63**	10.71	6.28	**0.68**	9.48	9.48	**2.30**	13.29	8.64	**3.11**	**0.34**	**2.86**	**1.60**
BL-1.11	**2.76**	**0.83**	10.62	4.39	--	9.39	9.18	**0.82**	14.21	8.57	**3.11**	**0.20**	**2.18**	--
BL-1.12	--	**0.69**	--	--	--	--	--	**0.43**	13.42	8.08	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	13.01	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	8.79	8.21	13.26	10.24	8.19	15.00	14.23	7.16	14.96	--	--	7.56	5.61	4.87
BL-2.1	9.51	7.60	12.66	9.55	7.83	13.82	12.92	7.40	14.60	7.52	6.92	6.85	6.18	5.59
BL-2.2	9.65	7.83	12.31	9.59	7.63	13.16	12.57	7.32	14.09	7.66	7.00	6.83	6.35	6.17
BL-2.3	9.08	7.62	12.04	9.36	7.51	12.76	12.17	6.84	14.18	7.70	6.95	6.90	6.70	6.47
BL-2.4	8.93	7.72	11.70	10.21	7.37	12.59	11.96	6.54	14.19	8.41	6.85	6.82	6.86	6.89
BL-2.5	10.16	7.70	11.67	10.14	7.45	12.17	11.95	5.88	13.63	8.45	6.74	6.78	7.02	7.09
BL-2.6	10.26	7.86	11.49	9.22	7.32	11.58	11.60	4.26	13.91	8.25	6.35	6.84	6.36	7.31
BL-2.7	9.62	5.45	11.52	8.60	**2.25**	11.50	11.40	**2.35**	13.90	7.89	5.01	6.61	4.20	7.46
BL-2.8	8.12	4.25	11.42	6.40	**1.01**	11.30	10.00	**2.58**	13.85	7.75	**3.22**	5.88	**2.42**	**3.45**
BL-2.9	4.05	**2.65**	11.43	5.02	**0.66**	10.94	8.80	**2.00**	13.36	7.59	**2.90**	5.47	**2.16**	**2.31**
BL-2.10	**2.01**	**0.72**	11.31	**2.49**	**0.48**	10.78	7.46	--	13.36	6.96	**2.37**	5.06	**1.76**	**1.92**
BL-2.11	**1.34**	**0.60**	11.31	**1.51**	--	--	6.59	--	--	6.59	--	**0.37**	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	6.02	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	5.38	--	--	--	--
BL-3.0	9.83	8.52	14.50	10.96	8.36	20.00	13.12	7.09	NS	--	--	7.81	5.67	4.66
BL-3.1	9.25	8.21	14.04	10.07	8.32	15.27	12.19	6.89	NS	6.46	6.99	7.72	6.11	5.06
BL-3.2	9.10	8.04	13.61	9.74	8.11	14.80	11.66	6.78	NS	6.53	7.04	7.93	5.97	5.45
BL-3.3	9.02	7.71	13.44	9.44	7.90	13.92	11.44	6.62	NS	6.49	6.86	7.30	6.10	5.93
BL-3.4	8.78	6.95	--	8.95	--	--	11.43	6.45	NS	6.36	--	--	4.94	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard.
For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 4

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	14.18	6.95	5.05	8.66	5.42	5.53	5.47	9.4	**3.46**	8.83	NM	9.84	7.54	7.84
BL-3.1	14.92	6.91	5.10	8.77	5.64	5.36	5.21	8.67	**3.67**	8.81	NM	10.35	6.73	7.30
BL-3.2	14.67	6.56	5.18	9.21	5.75	5.61	6.05	8.31	**3.71**	8.04	NM	10.49	6.90	7.70
BL-3.3	14.67	6.27	--	9.87	5.84	5.51	4.9	7.62	**3.96**	7.64	NM	9.46	6.87	7.43
BL-3.4	14.02	6.30	--	10.94	5.86	5.40	4.80	--	4.91	--	--	--	**3.73**	--
BL-3.5	--	--	--	10.97	--	5.54	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 5

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Turbidity (NTU)															
Name	6/7/2002	8/9/2002	9/12/2002	9/25/2003	10/7/2003	7/29/2004	11/13/2004	5/16/2007	7/10/2007	8/30/2007	9/10/2007	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008
BL-1.0	0.90	1.90	0.80	1.20	1.30	5.40	3.00	1.80	1.00	0.90	0.80	6.00	2.60	4.80	6.50	54.00
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	6.70	0.00	3.20	6.80	54.10
BL-1.2	--	--	-	-	-	-	-	-	-	-	-	6.00	0.00	3.80	7.00	54.10
BL-1.3	1.10	2.10	0.80	--	--	--	--	--	--	--	--	6.00	0.00	3.60	7.50	54.10
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	5.90	0.00	3.60	7.40	54.20
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	5.90	0.00	3.40	6.80	54.30
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	6.00	0.00	3.80	6.90	54.30
BL-1.7	1.10	2.80	1.00	--	--	2.20	2.40	--	--	--	1.30	5.90	0.00	3.60	6.90	54.20
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	6.30	4.90	3.50	7.30	54.30
BL-1.9	--	**--**	--	--	--	--	--	--	--	--	--	6.00	15.70	7.70	7.20	30.30
BL-1.10	1.20	8.40	3.40	--	--	--	--	--	--	--	--	5.70	25.90	8.80	6.50	15.60
BL-1.11	**--**	--	--	--	--	--	--	--	--	--	--	8.50	31.60	--	7.40	9.00
BL-1.12	**--**	--	--	--	--	7.40	3.30	--	--	--	9.80	9.10	30.60	--	6.80	8.20
BL-1.13	5.00	--	8.20	--	--	--	--	--	--	--	--	21.10	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	1.20	2.00	0.80	1.20	1.30	--	--	--	--	--	--	5.90	0.00	54.80	54.50	54.00
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	6.40	0.00	54.90	54.60	54.10
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	6.00	0.00	54.90	9.20	54.10
BL-2.3	1.30	2.50	0.90	--	--	--	--	--	--	--	--	6.00	0.00	55.10	7.60	54.10
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	5.80	0.00	55.50	7.40	54.10
BL-2.5	ND	2.90	--	--	--	--	--	--	--	--	--	6.00	0.00	55.10	6.80	54.20
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	6.20	0.00	55.10	7.00	54.20
BL-2.7	0.90	--	0.90	--	--	--	--	--	--	--	--	6.70	0.00	55.20	7.70	54.20
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	5.90	0.00	55.20	7.50	19.80
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	6.20	0.00	55.20	8.00	13.00
BL-2.10	2.50	--	8.40	--	--	--	--	--	--	--	--	7.70	14.40	55.10	7.10	7.70
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	9.80	19.00	--	7.40	8.00
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	8.90	16.40	--	--	7.60
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	1.50	3.20	1.30	--	2.60	--	--	--	--	--	--	6.60	0.00	54.60	54.40	4.70
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	6.50	0.00	54.10	54.50	10.20
BL-3.2	--	--	--	--	--	--	--	--	--	--	--	6.40	0.00	55.00	54.50	8.50
BL-3.3	--	--	--	--	--	--	--	--	--	--	--	6.40	0.00	54.80	54.50	8.70
BL-3.4	--	--	--	--	--	--	--	--	--	--	--	6.40	0.00	54.80	54.60	8.30
BL-3.5	2.10	--	1.30	--	--	--	--	--	--	--	--	6.40	0.00	--	--	--

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 5

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Turbidity (NTU)														
Name	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009	9/8/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1.0	55.55	56.85	56.70	56.90	52.05	0.00	56.65	56.20	29.80	27.00	2.56	1.04	0.60	0.80	2.40
BL-1.1	24.85	25.10	56.65	56.90	51.05	0.00	56.80	25.85	29.65	28.25	--	--	--		
BL-1.2	25.85	24.10	24.00	56.95	50.65	0.00	56.80	24.85	29.40	28.30	--	--	--		
BL-1.3	26.05	23.40	26.95	56.90	37.45	0.00	57.90	24.45	29.45	29.40	--	--	--		
BL-1.4	25.95	23.70	23.95	56.85	35.65	0.00	56.75	24.15	29.15	29.10	--	--	--		
BL-1.5	26.00	23.60	25.20	56.80	36.65	0.00	55.30	23.35	28.75	29.15	--	--	--		
BL-1.6	26.20	26.10	26.20	56.75	37.55	0.00	55.75	23.45	28.45	29.15	3.69	1.08	0.80	1.60	2.50
BL-1.7	26.25	24.80	27.30	56.75	38.15	0.00	55.55	22.95	27.95	29.10	--	--	--		
BL-1.8	25.80	24.55	27.30	56.75	40.05	0.00	55.50	23.25	28.15	29.30	--	--	--		
BL-1.9	25.95	24.10	28.35	56.70	38.55	0.00	55.05	23.55	27.95	28.75	--	--	--		
BL-1.10	25.55	24.65	28.35	56.65	49.75	0.00	55.05	23.85	28.00	29.00	--	--	--		
BL-1.11	25.75	24.65	33.15	56.60	49.45	0.00	56.75	24.65	27.90	29.20	--	--	--		
BL-1.12	25.85	24.15	31.93	56.50	49.65	3.76	56.75	29.55	29.35	29.45	9.70	6.57	5.00	2.80	4.90
BL-1.13	25.45	--	--	--	49.65	--	--	--	--	--	--	--	--		
BL-1.14	25.80	--	--	--	--	--	--	--	--	--	--	--	--		
BL-2.0	54.90	56.60	56.40	57.00	50.20	0.00	56.60	55.70	31.20	30.70	0.16	1.46	0.50	0.60	2.80
BL-2.1	25.55	56.65	56.40	57.00	49.95	0.00	56.70	55.80	30.95	30.60	--	--	--		
BL-2.2	28.50	56.60	56.10	57.50	49.90	0.00	56.75	55.85	30.70	29.85	--	--	--		
BL-2.3	38.30	56.55	56.10	56.95	49.80	0.00	56.75	55.70	30.05	29.65	--	--	--		
BL-2.4	28.40	56.50	56.25	12.30	49.70	0.00	56.65	55.85	29.40	29.65	--	--	--		
BL-2.5	28.50	56.40	56.30	44.20	49.90	0.00	56.75	55.90	29.40	29.10	--	--	--		
BL-2.6	28.35	56.10	6.00	45.70	49.95	0.00	56.75	55.85	28.65	28.55	2.60	1.52	0.50	1.60	0.70
BL-2.7	28.30	56.15	25.20	48.30	49.45	0.00	56.75	14.15	28.55	30.80	--	--	--		
BL-2.8	28.50	30.50	28.55	47.50	49.85	0.00	56.75	21.30	28.35	28.95	--	--	--		
BL-2.9	28.25	10.20	28.55	50.60	49.65	0.00	56.65	23.55	28.05	28.60	--	--	--		
BL-2.10	28.45	4.80	29.20	52.45	49.90	0.00	56.70	23.70	27.90	28.80	--	--	--		
BL-2.11	28.25	6.00	29.95	--	49.70	58.04	56.75	30.60	28.00	29.30	--	--	--		
BL-2.12	28.10	6.10	29.90	--	49.80	--	56.75	33.85	--	28.85	8.06	7.42	4.30	2.10	7.10
BL-2.13	--	--	29.95	--	49.10	--	--	--	--	--	--	--	--		
BL-3.0	57.80	56.80	56.50	57.15	49.95	0.00	56.60	30.70	28.00	27.10	1.60	1.19	0.50	0.70	2.50
BL-3.1	54.95	56.80	56.60	57.20	50.15	0.00	56.65	17.95	28.70	27.95	--	--	--		
BL-3.2	54.95	56.80	56.40	57.15	49.75	0.00	56.70	16.45	29.40	28.05	--	--	--		
BL-3.3	55.00	--	56.30	57.10	49.40	0.00	56.70	20.55	28.95	28.15	1.46	1.62	0.50	0.80	3.00
BL-3.4	--	--	56.35	56.95	49.80	0.00	56.70	23.65	28.45	--	--	--	--		
BL-3.5	--	--	--	56.85	49.35	76.22	--	55.85	--	--	--	--	--		

NOTES:

1. -- = no available data.

Appendix D, Table 5

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Turbidity (NTU)													
Name	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0	0.80	0.80	1.60	1.40	1.20	2.30	1.80	1.40		3.20	1.30	1.70	0.70	
BL-1.1														
BL-1.2														
BL-1.3									1.50					1.30
BL-1.4														
BL-1.5				2.90	1.40	2.50	2.20	1.30		3.80	1.50	2.80	0.80	
BL-1.6	2.30	2.20	1.70						1.50					1.30
BL-1.7														
BL-1.8														
BL-1.9									1.60					7.90
BL-1.10					8.60	2.30	1.90	3.50			6.40	6.60	2.00	
BL-1.11				2.90						3.60				
BL-1.12	4.00	3.10	1.90											
BL-1.13														
BL-1.14														
BL-2.0	0.70	0.80	1.60	1.20	1.80	2.70	1.50	1.20		1.70	1.50	1.90	1.00	
BL-2.1														
BL-2.2									6.20					6.10
BL-2.3														
BL-2.4								4.70					1.70	
BL-2.5				2.20	2.00	2.80	2.30		0.90	2.20	2.20	1.50		0.80
BL-2.6	3.30	2.80	1.60											
BL-2.7														
BL-2.8								3.50					6.40	
BL-2.9									0.60					1.20
BL-2.10				4.20	16.70	2.60	2.50			22.40	9.10	5.00		
BL-2.11														
BL-2.12	3.30	3.40	2.00											
BL-2.13														
BL-3.0	4.50	0.80	1.50	1.90	0.90	2.60	2.50	1.30	NS	2.80	1.40	1.40	1.10	10.30
BL-3.1														
BL-3.2														
BL-3.3	1.30	1.00	1.50		1.40	2.30	2.40	2.20	NS		1.60	1.70	1.10	1.90
BL-3.4				3.10						1.90				
BL-3.5														

NOTES:

1. -- = no available data.

Appendix D, Table 5

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0	1.1	0.9	0.80	1.2	1.0	0.92	8.6	0.7	0.7	1.2	0.9	0.7	3.3	0.8
BL-3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	1.4	1.4	1.30	--	--	1.2	--	--	0.9	1.3	1.4	--	1.3	1.47
BL-3.3	--	--	--	--	--	--	1.1	1.7	--	--	--	--	--	--
BL-3.4	--	--	--	1.4	1.3	--	--	--	--	--	--	--	--	--
BL-3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 6

Byram Lake

Seasonal Water Quality Analyses

Reservoir Field Parameters

Complete Data Record (2002-2021)

Location	Secchi Disk Readings (meters)												
Name	5/21/2002	6/7/2002	8/9/2002	9/12/2002	8/12/2003	8/26/2003	9/4/2003	9/11/2003	9/25/2003	10/7/2003	10/21/2003	10/28/2003	11/7/2003
BL-1	2.00	--	2.60	3.70	2.00	2.30	2.50	2.20	3.30	3.60	2.80	3.00	2.80
BL-2	--	--	2.60	3.40	--	--	--	--	3.00	3.50	--	--	--
BL-3	--	2.10	2.50	2.30	--	--	--	--	--	--	--	--	--

Location	Secchi Disk Readings (meters)																
Name	4/18/2004	4/29/2004	5/12/2004	5/20/2004	5/25/2004	6/9/2004	6/18/2004	6/24/2004	7/8/2004	7/29/2004	8/26/2004	9/1/2004	9/17/2004	9/30/2004	10/21/2004	11/13/2004	11/23/2004
BL-1	1.80	1.40	1.70	3.70	3.80	3.10	3.40	3.90	4.80	3.80	3.90	4.50	3.70	3.10	3.10	2.30	2.20
BL-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Location	Secchi Disk Readings (meters)														
Name	4/26/2005	5/12/2005	5/31/2005	6/16/2005	7/12/2005	7/21/2005	8/3/2005	8/17/2005	8/18/2005	9/1/2005	10/5/2005	3/31/2006	4/28/2006	5/23/2006	7/26/2006	10/10/2006
BL-1	2.40	2.30	3.00	4.90	3.80	4.00	4.80	4.00	4.90	4.40	4.80	2.70	2.40	3.50	4.50	5.20
BL-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Location	Secchi Disk Readings (meters)											
Name	5/16/2007	6/20/2007	7/10/2007	7/25/2007	8/30/2007	6/3/2008	7/30/2008	8/11/2008	9/18/2008	10/7/2008	11/3/2008	12/2/2008
BL-1	3.00	4.80	5.40	4.60	5.20	3.10	3.30	3.30	4.00	3.10	3.40	2.60
BL-2	--	--	--	--	--	3.10	3.30	3.70	3.40	3.10	2.50	2.70
BL-3	--	--	--	--	--	3.60	3.20	3.20	2.90	3.10	2.10	2.60

Location	Secchi Disk Readings (meters)													
Name	3/24/2009	4/28/2009	5/21/2009	6/30/2009	8/7/2009	9/3/2009	9/22/2009	10/23/2009	11/19/2009	12/23/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1	1.80	3.00	3.00	3.90	3.00	4.90	3.70	1.80	2.10	2.10	4.57	5.79	4.10	3.12	2.13
BL-2	1.80	2.40	3.00	3.00	3.00	4.60	3.70	2.10	2.50	2.40	4.33	4.88	4.57	3.87	1.98
BL-3	1.20	2.00	1.80	3.00	3.90	3.70	2.70	2.70	2.60	1.80	3.75	3.41	3.20	3.66	1.98

Location	Secchi Disk Readings (meters)															
Name	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016	4/24/2017	7/31/2017	11/27/2017
BL-1	3.64	3.79	2.27	4.18	4.70	2.73	2.74	2.54	2.44	1.83	3.00	3.66	3.73	3.35	--	--	--
BL-2	3.73	3.64	1.97	3.12	3.94	2.73	2.74	2.49	2.44	1.83	3.50	3.66	4.04	2.89	--	--	--
BL-3	3.48	3.64	1.97	2.76	3.33	2.73	2.74	2.54	NS	--	2.50	3.25	3.20	3.05	1.68	3.81	3.17

Location	Secchi Disk Readings (meters)										
Name	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1	--	--	--	--	--	--	--	--	--	--	--
BL-2	--	--	--	--	--	--	--	--	--	--	--
BL-3	3.51	3.66	3.11	2.62	3.35	3.05	2.44	3.20	3.20	2.89	3.65

NOTES:

1. -- = no available data.

LaBella Associates, DPC

April 2022

Appendix D, Table 7

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg CaCO3/L)											
	6/7/2002	6/3/2008	8/11/2008	10/6/2008	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1.0 (BL-1S)	39.0	35.5	35.5	34.4	37.1	35.3	41.9	42.0	40.0	68.0	38.0	40.0
BL-1.10	39.0	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	41.0	36.5	37.5	36.5	37.1	38.3	40.9	42.0	39.0	68.0	38.0	36.0
BL-1.30	41.0	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	47.0	41.4	36.5	42.7	38.1	42.3	38.8	46.0	42.0	88.0	42.0	44.0
BL-2.0 (BL-2S)	40.0	35.5	37.5	36.5	38.1	36.3	40.9	39.0	39.0	51.0	38.0	36.0
BL-2.10	39.0	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	ND	36.5	37.5	36.5	37.1	40.3	40.9	39.0	40.0	45.0	38.0	36.0
BL-2.20	41.0	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	43.0	38.5	47.6	36.5	38.1	38.3	51.1	44.0	49.0	72.0	44.0	46.0
BL-3.0 (BL-3S)	42.0	37.5	36.5	37.5	38.1	38.3	40.9	40.0	40.0	72.0	36.0	38.0
BL-3.8 (BL-3M)	--	36.5	35.5	39.6	37.1	38.3	40.9	40.0	40.0	72.0	38.0	36.0
BL-3.15 (BL-3D)	39.0	36.5	37.5	41.7	38.1	38.3	38.8	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.

Appendix D, Table 7

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg CaCO3/L)													
	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0 (BL-1S)	38.0	38.0	40.0	40.0	44.0	42.0	42.0	40.0	42.0	42.0	42.0	44.0	42.0	40.0
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	38.0	38.0	38.0	42.0	40.0	40.0	42.0	42.0	40.0	42.0	42.0	42.0	42.0	42.0
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	40.0	42.0	40.0	44.0	48.0	44.0	44.0	44.0	40.0	42.0	44.0	46.0	42.0	40.0
BL-2.0 (BL-2S)	36.0	38.0	40.0	40.0	40.0	42.0	42.0	44.0	40.0	42.0	42.0	44.0	42.0	40.0
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	36.0	40.0	40.0	78.0	42.0	42.0	42.0	42.0	28.0	40.0	46.0	44.0	42.0	40.0
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	36.0	44.0	40.0	44.0	50.0	42.0	44.0	42.0	42.0	42.0	46.0	48.0	48.0	46.0
BL-3.0 (BL-3S)	38.0	38.0	40.0	40.0	42.0	42.0	44.0	40.0	*	42.0	46.0	44.0	46.0	38.0
BL-3.8 (BL-3M)	38.0	40.0	40.0	40.0	40.0	42.0	42.0	42.0	*	42.0	46.0	42.0	46.0	38.0
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.

LaBella Associates, DPC

April 2022

Appendix D, Table 7

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg CaCO3/L)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	42	52	42	37	44	42	44	46	44	44	50	46	48	44
BL-3.8 (BL-3M)	42	48	44	38	44	46	46	48	48	46	46	--	46	44
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.

LaBella Associates, DPC

April 2022

Appendix D, Table 8

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)													
	6/7/2002	8/9/2002	9/12/2002	6/3/2008	8/11/2008	10/7/2008	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011
BL-1.0 (BL-1S)	**21.5**	**22.8**	**22.4**	**24.7**	**21.0**	**21.0**	**24.6**	**21.0**	**24.1**	**24.7**	**25.2**	**24.5**	**25.4**	**23.6**
BL-1.10	**21.7**	**22.8**	**21.9**	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	**22.3**	**22.1**	**22.3**	**24.0**	**20.8**	**21.0**	**24.4**	**21.0**	**24.2**	**24.2**	**25.0**	**24.5**	**25.8**	**23.5**
BL-1.30	**22.2**	**21.8**	**21.4**	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**22.5**	--	**21.7**	**23.9**	**20.5**	**20.7**	**24.4**	**20.8**	**23.3**	**24.6**	**24.5**	**23.8**	**26.2**	**25.3**
BL-2.0 (BL-2S)	**21.4**	**22.5**	**22.2**	**24.5**	**21.1**	**21.0**	**22.7**	**21.1**	**24.0**	**24.3**	**25.3**	**24.4**	**25.6**	**23.6**
BL-2.10	**21.9**	**22.7**	**22.2**	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	ND	**22.7**	ND	**24.2**	**20.9**	**21.1**	**24.0**	**21.0**	**24.1**	**23.7**	**25.2**	**24.3**	**25.8**	**23.5**
BL-2.20	**22.5**	--	**22.4**	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	**22.5**	--	**21.7**	**24.4**	20.0	**20.9**	**24.4**	**20.8**	**23.1**	**24.7**	**24.5**	**24.0**	**26.2**	**24.5**
BL-3.0 (BL-3S)	**22.0**	**22.8**	**22.0**	**27.2**	**20.9**	**21.1**	**24.3**	**20.6**	**24.1**	**24.7**	**25.2**	**24.5**	**25.5**	**23.6**
BL-3.8 (BL-3M)	--	--	--	**24.9**	**21.1**	**21.2**	**24.2**	**20.8**	**24.1**	**24.6**	**25.1**	**24.3**	**25.4**	**23.3**
BL-3.15 (BL-3D)	**20.4**	--	**22.6**	**25.1**	**21.0**	**21.1**	**24.1**	**20.8**	**24.0**	--	--	--	--	--

NOTES:

1. -- = no available data.
2. ND = This indicates that Sodium was Not Detected above the laboratory minimum detection limit.
3. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

April 2022

Appendix D, Table 8

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)													
	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0 (BL-1S)	**24.9**	**25.9**	**22.2**	**27.1**	**26.3**	**28.9**	**32.2**	**28.7**	**32.2**	**37.0**	**39.5**	**37.4**	**36.7**	**39.1**
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	**26.0**	**24.4**	**21.5**	**26.9**	**26.4**	**25.9**	**31.8**	**30.2**	**31.7**	**35.9**	**39.2**	**36.5**	**37.7**	**38.3**
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**22.5**	**24.3**	**23.1**	**26.4**	**26.2**	**26.4**	**31.1**	**28.1**	**32.0**	**36.9**	**36.8**	**35.7**	**37.1**	**37.2**
BL-2.0 (BL-2S)	**24.5**	**24.3**	**22.9**	**26.7**	**26.3**	**25.2**	**31.6**	**30.5**	**31.9**	**34.4**	**39.3**	**36.6**	**38.1**	**38.5**
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	**22.4**	**24.1**	**23.0**	**26.0**	**26.3**	**25.6**	**31.9**	**26.9**	13.5	**34.5**	**38.5**	**36.4**	**36.8**	**38.3**
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	**22.5**	**24.4**	**22.7**	**26.2**	**26.2**	**24.4**	**31.2**	**27.8**	**68.3**	**36.6**	**38.9**	**36.2**	**36.3**	**35.9**
BL-3.0 (BL-3S)	**24.3**	**25.4**	**22.8**	**26.7**	**26.5**	**28.2**	**31.2**	**27.4**	*	**35.3**	**39.6**	**37.9**	**37.8**	**38.2**
BL-3.8 (BL-3M)	**24.2**	**24.3**	**22.1**	**27.9**	**26.4**	**24.6**	**31.1**	**28.2**	*	**35.4**	**39.7**	**36.6**	**37.2**	**39.7**
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. ND = This indicates that Sodium was Not Detected above the laboratory minimum detection limit.
3. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists).

The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

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Appendix D, Table 8

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	**37.3**	**35.8**	**39.4**	**39.0**	**37.9**	**36.9**	**36.0**	**40.2**	**37.8**	**36.9**	**37.7**	**35.4**	**33.4**	**34.1**
BL-3.8 (BL-3M)	**37.4**	**36.0**	**40.5**	**38.2**	**37.3**	**37.2**	**36.2**	**36.9**	**38.0**	**36.6**	**37.9**	--	**33.5**	**34.6**
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. ND = This indicates that Sodium was Not Detected above the laboratory minimum detection limit.
3. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

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Appendix D, Table 9

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)										
	06/07/02	08/09/02	09/12/02	04/16/04	07/29/04	03/31/06	07/26/06	10/10/06	06/03/08	08/11/08	10/06/08
BL-1.0 (BL-1S)	0.040	0.040	< 0.01	ND	<0.1	<0.2	<0.2	<0.2	0.007	0.009	0.010
BL-1.10	0.070	0.040	< 0.01	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	0.060	0.040	0.060	0.260	<0.1	<0.2	<0.2	<0.2	0.006	0.012	0.011
BL-1.30	0.110	0.480	< 0.01	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	0.170	--	0.690	0.280	0.560	<0.2	<0.2	<0.2	0.011	0.030	0.107
BL-2.0 (BL-2S)	0.060	0.030	< 0.01	--	--	--	--	--	0.006	0.033	0.015
BL-2.10	0.080	0.030	< 0.01	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	ND	0.020	< 0.01	--	--	--	--	--	0.005	0.016	0.006
BL-2.20	0.070	--	< 0.01	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	0.100	--	< 0.01	--	--	--	--	--	0.060	0.295	0.009
BL-3.0 (BL-3S)	0.090	0.020	< 0.01	--	--	--	--	--	0.008	0.027	0.028
BL-3.8 (BL-3M)	--	--	--	--	--	--	--	--	0.014	0.020	0.024
BL-3.15 (BL-3D)	0.110	--	< 0.01	--	--	--	--	--	0.013	0.033	0.029

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Ammonia was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

LaBella Associates, DPC

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Appendix D, Table 9

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)										
	03/24/09	06/30/09	09/22/09	06/09/10	08/19/10	10/14/10	06/29/11	11/03/11	05/31/12	07/18/12	12/11/12
BL-1.0 (BL-1S)	0.028	0.008	<0.011	0.191	<0.05	<0.05	0.031	0.033	0.014	< 0.010	0.114
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	0.030	0.006	<0.011	0.142	<0.05	<0.05	0.040	0.028	0.010	< 0.010	0.134
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	0.029	0.148	0.015	0.169	0.300	0.074	0.224	1.204	0.154	0.153	0.174
BL-2.0 (BL-2S)	0.012	0.006	<0.011	0.051	0.360	<0.05	0.027	0.016	0.110	< 0.010	0.103
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	0.029	0.007	<0.011	0.076	<0.05	<0.05	0.022	0.028	< 0.010	0.013	0.108
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	0.026	<0.011	0.801	<0.05	0.380	0.725	0.128	0.357	0.219	0.261	0.108
BL-3.0 (BL-3S)	0.028	0.006	**15.000**	0.075	0.050	<0.05	0.026	0.014	0.014	0.011	0.056
BL-3.8 (BL-3M)	0.014	0.005	<0.011	0.133	<0.05	<0.05	0.030	0.014	0.018	0.012	0.056
BL-3.15 (BL-3D)	0.018	0.008	<0.011	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Ammonia was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)										
	06/06/13	**09/19/13**	**12/04/13**	**05/07/14**	**07/21/14**	**12/18/14**	**05/06/15**	**09/02/15**	**10/22/15**	**08/31/16**	**09/26/16**
BL-1.0 (BL-1S)	0.022	< 0.011	0.163	0.023	0.017	0.042	0.007	0.056	0.048	< 0.0075	0.025
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	0.021	< 0.011	0.159	< 0.011	0.025	0.046	0.022	0.035	0.051	< 0.0075	0.018
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	0.139	0.153	0.164	0.024	0.078	0.050	0.187	0.170	0.056	< 0.0075	0.035
BL-2.0 (BL-2S)	0.039	< 0.011	0.118	0.069	0.016	0.058	0.007	0.052	0.051	0.108	0.021
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	0.016	< 0.011	0.120	0.019	0.031	0.035	0.007	0.050	0.055	< 0.0075	0.018
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	0.228	0.668	0.129	0.059	0.056	0.038	0.057	0.084	0.259	0.092	0.362
BL-3.0 (BL-3S)	0.019	< 0.011	0.060	< 0.011	0.022	*	0.007	0.046	0.052	< 0.0075	0.018
BL-3.8 (BL-3M)	*	< 0.011	0.071	< 0.011	0.023	*	0.205	0.050	0.054	0.023	0.018
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Ammonia was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)							
	04/24/17	07/31/17	11/27/17	05/31/18	10/10/18	6/17/2019	8/27/2019	10/7/2019
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	0.071	0.019	0.024	<0.005	0.034	0.0293	0.010	0.027
BL-3.8 (BL-3M)	0.007	0.065	0.019	<0.005	0.017	0.0352	0.056	0.025
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Ammonia was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Appendix D, Table 9

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)					
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--
BL-3.0 (BL-3S)	0.0202	0.0352	0.014	0.0357	< 0.015	0.9993
BL-3.8 (BL-3M)	< 0.010	0.0262	0.0103	0.0347	< 0.015	0.0415
BL-3.15 (BL-3D)	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that A but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 st For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

Appendix D, Table 10

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)											
	6/7/2002	8/9/2002	9/12/2002	4/16/2004	6/10/2004	6/22/2004	7/21/2005	3/31/2006	7/26/2006	10/10/2006	5/14/2007	9/10/2007
BL-1.0 (BL-1S)	<0.01	0.02	<0.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BL-1.10	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	<0.01	<0.01	<0.01	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
BL-1.30	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	<0.01	--	<0.01	0.13	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
BL-2.0 (BL-2S)	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--[3]	--
BL-2.10	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
BL-2.20	<0.01	--	<0.01	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	<0.01	--	<0.01	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--
BL-3.8 (BL-3M)	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.15 (BL-3D)	<0.01	--	<0.01	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)													
	6/3/2008	8/11/2008	10/7/2008	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012
BL-1.0 (BL-1S)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-2.0 (BL-2S)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-3.0 (BL-3S)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-3.8 (BL-3M)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.012	<0.012	<0.012	<0.5	<0.5	< 0.5	< 0.5	< 0.5
BL-3.15 (BL-3D)	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)										
	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0 (BL-1S)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0	< 0.5	< 0.5
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.54	< 0.5	< 0.5	< 0.5	< 0.5
BL-2.0 (BL-2S)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BL-3.0 (BL-3S)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.90
BL-3.8 (BL-3M)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

Appendix D, Table 10

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/11/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.05
BL-3.8 (BL-3M)	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	< 0.5	< 0.05
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

LaBella Associates, DPC

April 2022

Appendix D, Table 11

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)													
	6/7/2002	8/9/2002	9/12/2002	5/14/2007	9/10/2007	6/3/2008	8/11/2008	10/7/2008	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010
BL-1.0 (BL-1S)	0.46	0.59	0.43	<0.2	<0.2	0.56	0.28	0.77	0.21	0.48	<0.2	0.286	0.520	0.482
BL-1.10	0.48	0.47	0.38	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	0.49	0.51	0.50	0.30	<0.2	0.56	0.28	0.36	0.45	0.74	<0.2	0.354	0.720	0.326
BL-1.30	0.47	1.30	0.50	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	0.55	--	1.70	2.50	0.30	0.28	0.28	0.36	0.38	0.76	1.07	0.594	0.440	0.466
BL-2.0 (BL-2S)	0.48	0.45	0.62	--	--	0.28	0.56	0.30	0.41	0.23	<0.2	0.214	0.500	0.362
BL-2.10	0.50	0.53	0.47	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	ND	0.48	ND	--	--	0.28	0.56	0.36	0.33	0.45	<0.2	0.135	0.380	0.280
BL-2.20	0.48	--	0.41	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	0.50	--	0.65	--	--	0.56	1.12	<0.1	0.38	0.29	0.78	0.782	0.760	0.412
BL-3.0 (BL-3S)	0.54	0.46	0.47	--	--	0.56	0.56	0.28	0.38	<0.2	<0.2	0.528	0.540	0.406
BL-3.8 (BL-3M)	--	--	--	--	--	<0.28	0.56	0.34	0.44	0.26	<0.2	0.434	0.540	0.314
BL-3.15 (BL-3D)	0.46	--	0.43	--	--	0.28	0.56	0.40	0.23	<0.2	<0.2	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that TKN was not detected, but that the MDL was not noted.

Appendix D, Table 11

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)													
	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015
BL-1.0 (BL-1S)	0.30	0.25	0.94	0.68	0.25	0.62	0.25	0.25	0.85	0.92	1.07	0.96	0.97	0.94
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	0.46	0.56	0.81	0.98	0.39	0.50	0.44	0.25	0.96	0.88	1.05	1.04	0.99	0.90
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	0.44	<0.2	0.84	1.05	0.34	0.43	1.06	0.26	1.02	0.95	1.12	1.19	1.32	0.93
BL-2.0 (BL-2S)	0.24	0.30	0.85	< 0.2	0.31	0.57	0.36	0.24	0.83	0.89	1.29	1.04	1.13	0.79
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	0.35	0.40	1.02	0.37	0.36	0.56	0.63	0.39	0.86	1.01	0.94	1.21	1.07	0.93
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	0.59	0.38	1.14	0.35	0.37	0.74	0.84	0.26	0.95	0.84	0.99	1.92	1.32	1.01
BL-3.0 (BL-3S)	0.21	0.29	0.75	0.27	0.20	0.72	0.44	0.25	0.96	0.88	*	1.15	1.26	0.84
BL-3.8 (BL-3M)	0.33	<0.2	0.90	< 0.2	0.46	0.54	0.46	0.44	0.96	1.10	*	1.01	1.12	0.97
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that TKN was not detected, but that the MDL was not noted.

Appendix D, Table 11

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)									
	8/31/2016	9/26/2016	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BL-1.0 (BL-1S)	1.20	1.13	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	1.20	1.18	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	1.44	1.27	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	1.22	1.55	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	1.28	1.28	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	1.41	1.93	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	1.36	1.41	1.43	1.58	2.00	1.36	1.30	0.99	1.2	1.05
BL-3.8 (BL-3M)	1.29	1.93	1.60	1.70	1.88	1.51	1.29	0.72	<1.0	1.41
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that TKN was not detected, but that the MDL was not noted.

Appendix D, Table 11

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)					
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--
BL-3.0 (BL-3S)	< 0.6	< 0.6	< 0.6	0.88	< 0.6	0.73
BL-3.8 (BL-3M)	1.23	< 0.6	< 0.6	--	< 0.6	0.68
BL-3.15 (BL-3D)	--	--	--	--	--	--

Appendix D, Table 12

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)											
	6/7/2002	8/9/2002	9/12/2002	4/16/2004	6/10/2004	6/16/2005	7/21/2005	5/14/2007	9/10/2007	6/3/2008	8/11/2008	10/6/2008
BL-1.0 (BL-1S)	17.79	15.70	16.37	17.00	19.00	14.20	14.20	5.20	11.40	19.30	12.30	19.20
BL-1.10	**23.95**	15.70	**25.90**	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	**30.03**	**22.44**	18.37	**32.00**	15.00	--	--	12.70	13.30	**26.40**	15.60	**22.50**
BL-1.30	**26.86**	**128.82**	**31.47**	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**74.20**	--	**197.59**	20.00	**39.00**	--	--	**255.80**	**60.00**	**163.20**	**47.00**	**35.70**
BL-2.0 (BL-2S)	**22.00**	14.36	**22.08**	--	--	--	--	--	--	**21.30**	13.60	ND
BL-2.10	**25.89**	16.37	**21.07**	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	ND	**20.40**	ND	--	--	--	--	--	--	**25.10**	15.30	14.90
BL-2.20	**36.26**	--	16.69	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	**48.89**	--	**45.56**	--	--	--	--	--	--	**61.50**	**132.60**	16.20
BL-3.0 (BL-3S)	**21.03**	**20.73**	19.69	--	--	--	--	--	--	**20.60**	19.20	16.20
BL-3.8 (BL-3M)	--	--	--	--	--	--	--	--	**22.90**	18.60	16.90	--
BL-3.15 (BL-3D)	**36.69**	--	**21.07**	--	--	--	--	--	**21.60**	18.90	17.90	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

LaBella Associates, DPC

April 2022

Appendix D, Table 12

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)										
	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012
BL-1.0 (BL-1S)	**27.50**	15.30	15.40	<0.05	<0.05	<0.05	15.00	**20.30**	13.80	12.10	**29.40**
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	**39.10**	**21.90**	16.50	1.52	0.19	<0.05	**28.30**	**21.70**	**22.20**	**25.30**	**26.70**
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**30.90**	**29.90**	**60.80**	<0.05	<0.05	<0.05	14.60	**67.10**	**44.10**	18.40	**34.60**
BL-2.0 (BL-2S)	**29.20**	16.20	14.40	<0.05	<0.05	<0.05	15.00	18.60	14.70	12.40	**26.30**
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	**31.30**	**21.90**	15.40	<0.05	<0.05	<0.05	**29.90**	**21.00**	**30.70**	**27.50**	**28.10**
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	**32.60**	**42.10**	**81.40**	<0.05	<0.05	<0.05	**36.90**	**44.50**	**156.10**	**92.30**	NS
BL-3.0 (BL-3S)	**29.20**	15.30	14.80	0.11	<0.05	<0.05	14.40	**22.70**	14.70	12.10	**25.60**
BL-3.8 (BL-3M)	**28.90**	17.90	16.70	<0.05	<0.05	<0.05	16.00	**20.30**	17.90	13.40	**27.70**
BL-3.15 (BL-3D)	**29.90**	18.90	18.30	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

LaBella Associates, DPC

April 2022

Appendix D, Table 12

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)										
	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0 (BL-1S)	18.40	12.20	**21.00**	18.00	14.80	**22.90**	16.30	11.20	14.60	9.30	11.30
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	**29.10**	15.80	**25.00**	**24.20**	**25.80**	**23.50**	**27.70**	13.80	13.40	11.20	13.30
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**30.70**	**30.20**	**24.00**	**23.20**	**36.10**	**23.50**	**21.00**	**40.20**	9.00	**42.10**	**29.40**
BL-2.0 (BL-2S)	19.40	11.60	**23.00**	17.60	14.80	**22.90**	**20.30**	10.60	16.60	14.70	13.30
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	**27.40**	16.70	**27.70**	**21.90**	**20.60**	**22.60**	**27.10**	14.80	14.00	14.70	14.20
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	**60.70**	**210.90**	**25.70**	**24.20**	**22.70**	**22.60**	**29.40**	**48.70**	**36.00**	16.20	**78.30**
BL-3.0 (BL-3S)	18.70	14.50	**23.00**	**20.30**	17.90	*	**20.30**	13.20	12.70	17.00	16.10
BL-3.8 (BL-3M)	**33.90**	15.10	**37.40**	**21.30**	**25.10**	*	20.00	15.40	15.00	16.60	14.20
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 12

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)							
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	14.8	12.7	14.3	18.5	12.6	11.9	**23.1**	**20.2**
BL-3.8 (BL-3M)	16.1	16.4	16.2	**22.6**	13.8	18.2	15.6	**21.3**
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentrati which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not dete but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 12

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)					
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--
BL-3.0 (BL-3S)	10.6	13.3	12.3	15.1	**23.2**	8.8
BL-3.8 (BL-3M)	13.5	16.2	11.6	14.6	18.7	13.7
BL-3.15 (BL-3D)	--	--	--	--	--	--

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Appendix D, Table 13

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)												
	6/7/2002	8/9/2002	9/12/2002	4/16/2004	6/10/2004	3/31/2006	7/26/2006	10/1/2006	5/14/2007	9/10/2007	6/3/2008	8/11/2008	10/6/2008
BL-1.0 (BL-1S)	9.69	13.02	8.99	4.00	13.00	2.50	4.50	2.90	4.80	2.90	5.00	2.80	3.90
BL-1.10	11.63	11.34	8.21	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	12.93	14.02	9.20	5.00	8.00	2.50	12.00	3.20	12.30	2.60	3.40	4.50	5.90
BL-1.30	12.93	**94.54**	12.47	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	**54.40**	--	**51.60**	8.00	9.00	2.50	**255.10**	7.30	**255.40**	3.30	**59.80**	5.10	4.20
BL-2.0 (BL-2S)	12.00	12.01	10.67	--	--	--	--	--	--	--	--	--	--
BL-2.10	11.91	11.34	10.18	--	--	--	--	--	--	--	5.30	3.20	--
BL-2.15 (BL-2M)	ND	12.01	ND	--	--	--	--	--	--	--	--	--	--
BL-2.20	14.93	--	10.00	--	--	--	--	--	--	--	4.00	3.50	2.60
BL-2.30 (BL-2D)	17.28	--	**20.67**	--	--	--	--	--	--	--	7.20	**22.70**	2.30
BL-3.0 (BL-3S)	10.56	13.35	10.51	--	--	--	--	--	--	--	5.00	3.50	2.30
BL-3.8 (BL-3M)	--	--	--	--	--	--	--	--	--	--	4.70	3.20	3.30
BL-3.15 (BL-3D)	19.96	--	12.01	--	--	--	--	--	--	--	4.70	3.80	2.90

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 13

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)										
	3/24/2009	6/30/2009	9/22/2009	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012
BL-1.0 (BL-1S)	3.10	4.20	4.00	<0.01	<0.01	<0.01	3.80	2.70	3.10	4.10	5.30
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	4.10	4.80	4.70	1.49	0.12	<0.01	4.10	3.00	3.10	5.70	4.90
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	2.70	5.10	**35.90**	0.03	<0.01	<0.01	4.10	12.30	13.30	4.70	7.00
BL-2.0 (BL-2S)	--	--	--	<0.01	<0.01	<0.01	3.80	3.00	3.80	3.60	4.30
BL-2.10	3.10	4.20	3.70	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	<0.01	<0.01	<0.01	5.50	2.70	3.10	4.70	4.90
BL-2.20	3.40	5.10	4.00	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	2.70	3.50	8.60	<0.01	<0.01	<0.01	4.80	6.00	**63.70**	19.60	NS
BL-3.0 (BL-3S)	2.40	4.50	3.40	0.11	<0.01	<0.01	3.40	3.00	3.50	3.70	4.60
BL-3.8 (BL-3M)	2.70	4.20	4.40	<0.01	<0.01	<0.01	3.80	2.60	3.50	3.70	4.90
BL-3.15 (BL-3D)	3.10	2.50	4.00	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 13

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)										
	6/6/2013	9/19/2013	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016
BL-1.0 (BL-1S)	5.10	4.80	5.70	7.30	7.70	15.20	3.63	9.50	8.40	4.90	5.00
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	5.70	4.80	5.70	8.60	9.70	15.50	16.60	7.90	5.40	5.20	6.00
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	7.30	6.00	5.00	9.60	11.40	9.40	4.20	8.20	7.40	5.50	5.30
BL-2.0 (BL-2S)	5.10	4.80	6.00	7.30	8.70	9.00	3.20	8.50	5.70	8.40	5.30
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	5.10	4.80	7.90	7.30	9.40	9.00	3.90	7.20	6.40	7.10	5.70
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	11.90	**39.50**	6.10	8.30	15.60	7.20	17.50	12.10	14.80	5.50	7.00
BL-3.0 (BL-3S)	4.70	4.80	6.60	7.30	10.00	*	9.70	6.90	6.40	17.90	7.60
BL-3.8 (BL-3M)	4.70	4.50	13.20	7.60	12.30	*	10.70	7.90	7.40	6.50	6.10
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 13

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)													
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	3.4	4.7	3.2	5.2	5.2	5.8	1.8	10.6	8.6	6.6	6.6	4.2	14.1	3.5
BL-3.8 (BL-3M)	4	4.7	3.9	4.8	7.8	5.7	2.6	5.35	4.6	3.5	6.3	4.0	3.6	4.5
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 14

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)										
	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013
BL-1.0 (BL-1S)	49.7	55.6	57.4	56.4	52.2	52.3	53.9	54.3	59.1	55.1	54.4
BL-1.20 (BL-1M)	48.3	55.9	57.3	56.6	52.3	53.0	54.1	54.4	60.1	55.2	54.5
BL-1.40 (BL-1D)	49.5	54.0	56.6	57.7	56.2	52.8	53.3	54.2	59.3	67.8	54.6
BL-2.0 (BL-2S)	49.4	55.9	57.6	56.2	51.8	51.4	53.6	54.1	59.0	55.0	54.5
BL-2.15 (BL-2M)	48.2	55.8	57.5	56.7	51.5	52.3	53.8	54.2	60.0	55.5	54.6
BL-2.30 (BL-2D)	48.7	53.5	56.6	57.6	54.5	52.7	54.1	54.0	59.5	55.2	54.6
BL-3.0 (BL-3S)	49.8	57.3	57.7	56.6	52.1	51.3	53.7	54.2	58.4	55.0	54.7
BL-3.8 (BL-3M)	50.2	56.1	57.8	56.5	51.1	51.0	53.0	54.9	59.5	54.9	54.4

NOTES:

1. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard.

For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)										
	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016	4/24/2017	7/31/2017	11/27/2017
BL-1.0 (BL-1S)	65.3	64.8	63.1	75.8	79.4	77.7	84.9	85.0	--	--	--
BL-1.20 (BL-1M)	64.9	63.7	63.0	74.9	79.3	77.5	84.9	85.1	--	--	--
BL-1.40 (BL-1D)	64.6	62.4	63.3	78.1	75.5	75.2	79.9	71.6	--	--	--
BL-2.0 (BL-2S)	64.7	64.1	63.1	76.1	79.9	77.3	85.1	85.2	--	--	--
BL-2.15 (BL-2M)	64.8	61.2	24.9	75.3	79.2	77.4	84.8	85.2	--	--	--
BL-2.30 (BL-2D)	64.3	62.6	124.5	76.1	75.1	75.9	75.5	78.8	--	--	--
BL-3.0 (BL-3S)	64.4	64.9	*	75.9	79.9	77.7	75.2	84.6	83.4	87.6	87.3
BL-3.8 (BL-3M)	64.4	64.6	*	75.8	79.7	78.2	83.1	80.4	83.5	91.4	87.7

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard.

For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)										
	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	97.5	86.7	85.7	81.3	83.2	79.3	76.6	88.7	81.8	85.4	80.9
BL-3.8 (BL-3M)	95.7	89.8	83.8	77.9	83.2	79.0	76.7	88.5	--	85.3	77.4

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard.

For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Biochemical Oxygen Demand-5 day (mg/L)									
	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013
BL-1.0 (BL-1S)	<1.0	<1.0	<1.0	1.2	2.3	2.5	1.5	3.2	2.2	1.1
BL-1.20 (BL-1M)	<1.0	<1.0	<1.0	2.2	3.2	2.8	1.7	2.5	1.6	< 1.0
BL-1.40 (BL-1D)	<1.0	<1.0	<1.0	1.3	3.6	2.3	1.6	2.5	3.1	4.5
BL-2.0 (BL-2S)	<1.0	<1.0	<1.0	<1.0	3.8	1.8	1.6	2.8	1.5	1.1
BL-2.15 (BL-2M)	<1.0	5.0	<1.0	1.7	3.0	3.1	1.6	2.8	2.0	1.2
BL-2.30 (BL-2D)	<1.0	<1.0	<1.0	1.3	3.9	2.7	1.8	2.7	2.3	3.2
BL-3.0 (BL-3S)	<1.0	<1.0	<1.0	<1.0	3.6	2.3	1.2	2.9	1.4	1.0
BL-3.8 (BL-3M)	<1.0	<1.0	<1.0	<1.0	3.5	2.9	1.0	3.3	2.3	1.0

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Biochemical Oxygen Demand - 5 day was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Biochemical Oxygen Demand-5 day (mg/L)											
	12/4/2013	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016	4/24/2017	7/31/2017	11/27/2017
BL-1.0 (BL-1S)	1.5	1.4	< 1.0	3.9	3.05	1.3	1.37	1.2	< 1.0	--	--	--
BL-1.20 (BL-1M)	1.6	1.5	1.2	3.6	3.65	1.5	1.24	1.0	< 1.0	--	--	--
BL-1.40 (BL-1D)	2.1	1.7	1.9	3.3	1.9	6.0	1.64	8.7	< 1.0	--	--	--
BL-2.0 (BL-2S)	1.9	1.2	< 1.0	3.2	2.86	2.5	1.15	1.1	< 1.0	--	--	--
BL-2.15 (BL-2M)	2.2	1.4	1.2	*	3.71	< 1.0	1.12	< 1.0	< 1.0	--	--	--
BL-2.30 (BL-2D)	2.0	1.2	1.1	*	3.82	7.0	9.9	12.3	< 1.0	--	--	--
BL-3.0 (BL-3S)	2.4	1.7	< 1.0	*	3.07	2.1	1.2	1.0	< 1.0	2.37	2.6	2.85
BL-3.8 (BL-3M)	3.8	1.5	1.1	*	3.24	1.0	1.67	< 1.0	< 1.0	3.07	2.2	3.78

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Biochemical Oxygen Demand - 5 day was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Biochemical Oxygen Demand-5 day (mg/L)										
	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	1.45	1.85	2.2	1.90	1.41	2.6	1.39	3.42	1.33	1.31	< 3.0
BL-3.8 (BL-3M)	1.13	1.39	2.7	5.83	1.07	2.4	1.77	1.78	1.43	1.32	< 3.0

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Biochemical Oxygen Demand - 5 day was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chlorophyll A (ug/L)										
	6/9/2010	8/19/2010	10/14/2010	6/29/2011	11/3/2011	5/31/2012	7/18/2012	12/11/2012	6/6/2013	9/19/2013	12/4/2013
BL-1.0 (BL-1S)	2.6	2.2	3.2	2.6	11.5	2.4	1.9	*	2.5	3.0	9.0
BL-1.20 (BL-1M)	4.7	4.1	3.3	7.9	8.6	7.1	9.0	7.5	4.7	5.4	8.8
BL-1.40 (BL-1D)	19.1	11.3	8.4	5.3	6.1	7.3	6.1	*	2.8	14.2	7.8
BL-2.0 (BL-2S)	3.3	2.6	2.6	2.4	10.6	1.9	1.6	6.7	2.6	3.0	15.1
BL-2.15 (BL-2M)	6.3	3.2	2.7	12.9	6.8	11.2	14.8	5.5	4.4	4.8	21.4
BL-2.30 (BL-2D)	11.0	15.9	13.8	4.6	11.1	3.8	9.1	5.8	6.2	25.2	17.8
BL-3.0 (BL-3S)	4.8	2.2	1.2	2.5	18.2	1.5	1.5	7.0	2.5	4.5	13.9
BL-3.8 (BL-3M)	4.4	2.9	2.3	2.9	11.7	2.7	2.8	4.8	3.7	3.2	29.5

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Chlorophyll A was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chlorophyll A (ug/L)										
	5/7/2014	7/21/2014	12/18/2014	5/6/2015	9/2/2015	10/22/2015	8/31/2016	9/26/2016	4/24/2017	7/31/2017	11/27/2017
BL-1.0 (BL-1S)	7.1	3.6	17.7	9.3	1.9	2.6	1.9	3.3	--	--	--
BL-1.20 (BL-1M)	9.1	8.8	17.5	29.3	3.5	4.1	1.8	2.9	--	--	--
BL-1.40 (BL-1D)	7.5	14.8	16.2	8.4	17.8	9.4	3.8	3.5	--	--	--
BL-2.0 (BL-2S)	7.2	3.7	15.5	8.8	1.8	3.9	2.6	< 0.05	--	--	--
BL-2.15 (BL-2M)	6.5	7.3	14.2	24	3.6	4.7	2.5	3.5	--	--	--
BL-2.30 (BL-2D)	7.7	7.4	20.1	16.4	15.2	11.3	6.7	7.8	--	--	--
BL-3.0 (BL-3S)	7.0	5.4	*	8.6	4.8	2.5	2.5	4.1	6.6	4.2	5.6
BL-3.8 (BL-3M)	6.9	7.6	*	8.4	2.6	2.9	2.3	0.8	6.2	3.3	8.5

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Chlorophyll A was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Appendix D, Table 16

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chlorophyll A (ug/L)										
	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	1.7	2.8	5.0	3.6	7.2	2.3	5.2	3.6	4.0	5.2	5.9
BL-3.8 (BL-3M)	5.4	4.2	11	6.2	5.6	2.8	5.1	4.6	4.7	5.0	5.2

NOTES:

1. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
2. A sample result preceded by the symbol '<' indicates that Chlorophyll A was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

LaBella Associates, DPC

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Appendix D, Table 17

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Calcium (mg/L)										
	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--	--	--	--	--	--	--	--	--
BL-1.10	--	--	--	--	--	--	--	--	--	--	--
BL-1.20 (BL-1M)	--	--	--	--	--	--	--	--	--	--	--
BL-1.30	--	--	--	--	--	--	--	--	--	--	--
BL-1.40 (BL-1D)	--	--	--	--	--	--	--	--	--	--	--
BL-2.0 (BL-2S)	--	--	--	--	--	--	--	--	--	--	--
BL-2.10	--	--	--	--	--	--	--	--	--	--	--
BL-2.15 (BL-2M)	--	--	--	--	--	--	--	--	--	--	--
BL-2.20	--	--	--	--	--	--	--	--	--	--	--
BL-2.30 (BL-2D)	--	--	--	--	--	--	--	--	--	--	--
BL-3.0 (BL-3S)	58.0	26.9	23.7	23.2	26.9	25.1	24.4	24.9	23.2	18.0	20.7
BL-3.8 (BL-3M)	11.0	26.4	23.9	23.4	24.5	25.4	24.4	25.2	--	18.1	20.6
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

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Appendix D, Table 18

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Iron (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--
BL-1.10	--	--	--
BL-1.20 (BL-1M)	--	--	--
BL-1.30	--	--	--
BL-1.40 (BL-1D)	--	--	--
BL-2.0 (BL-2S)	--	--	--
BL-2.10	--	--	--
BL-2.15 (BL-2M)	--	--	--
BL-2.20	--	--	--
BL-2.30 (BL-2D)	--	--	--
BL-3.0 (BL-3S)	0.01	0.02	< 0.278
BL-3.8 (BL-3M)	--	0.02	< 0.278
BL-3.15 (BL-3D)	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Iron was not detected at the noted concentration,
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For Class A Surface waters, Iron must be below 0.300 mg/L.

Appendix D, Table 19

Byram Lake

Seasonal Water Quality Analyses

Reservoir Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Manganese (mg/L)		
	6/2/2021	7/26/2021	10/13/2021
BL-1.0 (BL-1S)	--	--	--
BL-1.10	--	--	--
BL-1.20 (BL-1M)	--	--	--
BL-1.30	--	--	--
BL-1.40 (BL-1D)	--	--	--
BL-2.0 (BL-2S)	--	--	--
BL-2.10	--	--	--
BL-2.15 (BL-2M)	--	--	--
BL-2.20	--	--	--
BL-2.30 (BL-2D)	--	--	--
BL-3.0 (BL-3S)	0.02	< 0.005	< 0.00556
BL-3.8 (BL-3M)	--	< 0.005	0.0336
BL-3.15 (BL-3D)	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Manganese was not detected at the noted concentration,
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For Class A Surface waters, Manganese must be below 0.300 mg/L.

Appendix D, Table 20

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (SU)										
	Spring	Fall			Spring		Summer	Summer		Spring	
	5/21/2002	9/12/2002	9/16/2002	9/16/2002	3/30/2003	3/31/2003	6/22/2003	6/22/2004	6/22/2004	3/31/2006	4/3/2006
BLT-1	7.30	--	**6.40**	--	8.34	7.54	--	7.60	7.60	6.90	**6.15**
BLT-2	6.90	--	7.20	7.10	--	--	--	--	--	6.70	**6.33**
BLT-3	--	--	--	--	--	--	--	--	--	--	--
BLT-4	7.40	--	7.60	7.90	7.81	7.14	7.68	7.70	7.70	7.00	6.54
BLT-5	7.40	--	7.20	7.80	--	--	--	--	--	--	--
BLT-6	7.10	7.70	7.50	7.70	7.80	7.40	7.40	7.40	7.40	7.10	6.72
BLT-7	6.80	7.30	8.10	7.60	7.46	7.30	--	--	--	7.10	6.75
BLT-8	7.40	7.70	8.40	8.00	7.64	7.01	--	--	--	6.90	6.67
BLT-9	7.20	--	--	--	--	--	--	--	--	--	--
BLT-10	7.00	--	7.70	7.60	--	--	--	--	--	7.40	6.81
BLT-11	7.50	--	7.70	7.30	--	--	7.80	7.80	7.80	7.20	6.82
BLT-12	6.90	--	7.70	7.70	--	--	7.45	7.45	7.45	--	--

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Appendix D, Table 20

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (SU)										
	Summer		Fall		Fall			Spring		Summer	
								Dry	*Wet*	*Wet*	*Dry*
	7/20/2006	**7/26/2006**	**10/1/2006**	**10/10/2006**	**9/10/2007**	**9/11/2007**	**10/3/2007**	**6/3/2008**	**6/4/2008**	**8/11/2008**	**8/13/2008**
BLT-1	6.60	6.70	--	--	--	7.70	--	7.80	7.49	7.67	7.55
BLT-2	--	--	--	--	--	7.60	--	7.64	7.27	7.52	6.90
BLT-3	--	--	--	--	--	--	--	7.10	7.32	--	--
BLT-4	6.90	6.80	6.80	6.90	7.16	7.90	7.20	7.44	7.37	7.44	7.36
BLT-5	7.00	6.80	**6.36**	7.12	--	7.40	--	7.05	6.98	7.23	7.06
BLT-6	7.20	7.00	**6.47**	7.36	7.30	7.40	7.30	7.52	7.40	7.22	**6.45**
BLT-7	7.20	7.10	6.65	7.34	7.30	7.40	7.20	7.56	7.43	7.17	6.63
BLT-8	7.20	7.10	6.80	7.38	--	7.50	--	7.23	7.00	7.06	**6.31**
BLT-9	--	--	--	--	--	--	--	7.15	7.15	--	--
BLT-10	7.30	7.80	6.68	7.42	--	7.50	--	7.60	7.49	7.17	**5.90**
BLT-11	7.20	7.30	6.88	7.51	7.40	7.60	7.40	7.53	7.37	7.11	**5.60**
BLT-12	--	--	--	--	7.40	7.30	--	7.50	6.75	6.87	--

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (SU)										
	Fall		Spring		Summer		Fall		Spring		Summer
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	10/7/2008	**10/28/2008**	**3/24/2009**	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**
BLT-1	7.45	7.49	7.23	**9.18**	**8.70**	8.17	7.95	7.84	**5.85**	8.37	--
BLT-2	7.17	7.43	6.80	8.00	7.96	7.26	7.56	**8.52**	6.95	8.04	--
BLT-3	--	7.42	--	7.67	--	7.11	--	8.50	--	6.85	--
BLT-4	7.15	7.32	7.04	7.70	7.91	6.73	8.04	**8.54**	6.87	**6.15**	7.60
BLT-5	7.00	6.95	6.81	7.84	7.76	**6.26**	8.00	8.41	6.50	**5.38**	7.96
BLT-6	7.00	7.46	7.16	8.21	7.96	7.36	8.35	**8.52**	6.82	6.89	7.75
BLT-7	6.81	7.50	6.74	7.89	7.73	7.02	8.08	8.31	6.85	6.76	6.60
BLT-8	6.86	7.26	**6.47**	7.62	7.64	6.52	7.77	**8.53**	6.70	**6.28**	7.09
BLT-9	6.75	7.13	6.71	7.84	7.88	6.58	--	**8.75**	6.92	7.00	--
BLT-10	6.84	7.34	7.12	8.22	7.77	7.32	8.36	**8.74**	**5.70**	7.43	7.08
BLT-11	**6.48**	7.75	6.92	7.95	7.71	7.04	8.17	**8.75**	7.45	7.32	7.81
BLT-12	**5.77**	7.85	6.86	7.55	7.46	6.56	--	**8.63**	--	8.07	--

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH(SU)											
	Summer	Fall		Spring		Summer	Fall		Spring	Summer		
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	8/27/2010	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**
BLT-1	--	--	6.99	8.09	7.00	7.01	7.61	7.91	7.47	8.31	7.78
BLT-2	--	--	**6.32**	7.54	--	**6.26**	7.43	8.24	7.21	8.03	7.81
BLT-3	--	--	**6.18**	--	--	--	7.31	8.31	6.95	--	--
BLT-4	7.46	**5.84**	**6.39**	8.02	7.00	7.44	7.74	8.27	7.88	8.07	7.69
BLT-5	7.26	**5.34**	**5.94**	7.54	**8.60**	7.00	7.44	8.33	7.46	7.80	7.36
BLT-6	7.48	**5.68**	6.72	7.41	7.46	6.53	7.78	8.29	7.65	8.14	7.30
BLT-7	7.52	**6.18**	7.21	7.37	7.05	7.03	7.59	8.37	7.59	8.08	7.33
BLT-8	7.33	**6.18**	7.25	7.68	7.00	8.35	7.57	8.11	7.30	7.46	7.15
BLT-9	--	**6.21**	7.16	7.11	7.38	7.00	7.13	8.24	6.92	7.88	7.06
BLT-10	**5.65**	6.72	8.03	6.76	7.26	7.80	6.95	8.22	6.81	8.06	7.41
BLT-11	**5.52**	7.20	**8.64**	7.54	7.00	7.00	7.29	8.30	7.47	8.27	7.46
BLT-12	6.91	--	**8.97**	7.37	--	7.00	7.29	8.19	7.57	8.33	--

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Appendix D, Table 20

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH(SU)										
	Fall		Spring		Summer		Fall	Spring		Summer	Fall
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	10/3/2012	**12/11/2012**	**5/23/2013**	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**
BLT-1	7.20	7.41	7.22	7.36	8.26	--	**6.06**	7.24	7.36	8.09	*
BLT-2	6.95	7.71	7.14	7.38	8.13	--	6.65	7.46	6.94	8.39	*
BLT-3	7.40	--	7.21	7.30	--	--	--	7.15	6.77	--	--
BLT-4	7.56	7.71	7.33	7.47	7.86	7.94	6.54	7.50	7.78	**8.67**	6.82
BLT-5	7.32	7.44	6.90	7.04	7.55	7.59	**6.28**	6.92	7.33	8.49	6.66
BLT-6	7.10	7.75	7.15	7.51	7.83	7.66	6.64	7.54	7.49	**9.29**	7.12
BLT-7	6.90	7.69	7.32	7.61	7.57	7.69	6.63	7.33	7.36	**8.60**	7.13
BLT-8	7.34	7.36	7.36	7.32	7.50	7.54	**6.32**	6.99	7.61	8.31	7.30
BLT-9	6.68	--	6.98	7.44	7.85	7.72	**6.33**	7.71	7.72	--	7.15
BLT-10	6.75	7.31	7.50	7.08	7.80	7.81	6.55	6.90	7.25	**8.72**	7.43
BLT-11	6.86	7.72	7.51	7.86	7.50	7.47	6.71	7.40	7.53	8.33	7.21
BLT-12	7.03	7.47	8.08	7.42	7.25	--	**5.97**	6.62	7.89	7.69	7.16

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Appendix D, Table 20

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH(SU)										
	Fall	Spring		Summer		Fall		Summer		Fall	
	Dry	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	12/18/2014	**4/28/2015**	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	**5.50**	6.54	8.29	7.20	--	--	--	7.75	--	--	7.67
BLT-2	**6.17**	6.77	7.29	7.56	--	--	--	--	--	--	7.67
BLT-3	--	**6.30**	--	--	--	--	--	--	--	--	--
BLT-4	6.79	7.46	--	8.06	--	*	8.00	8.19	7.76	--	7.68
BLT-5	6.58	7.09	7.72	7.52	7.27	*	7.59	7.89	7.39	7.38	7.37
BLT-6	7.00	7.31	7.92	8.37	7.59	7.68	7.40	7.72	7.44	7.46	7.68
BLT-7	6.80	7..10	7.74	7.32	**4.25**	*	7.27	7.13	7.71	7.42	7.57
BLT-8	7.21	7.32	7.42	7.38	--	8.15	6.64	8.12	7.42	--	7.54
BLT-9	7.19	6.98	7.33	7.55	--	--	--	8.07	--	--	7.16
BLT-10	**6.48**	6.94	7.05	**8.64**	7.75	7.80	7.85	7.57	7.90	--	7.57
BLT-11	6.90	7.23	7.10	7.35	7.50	7.74	7.74	7.69	7.92	7.68	7.76
BLT-12	6.65	7.26	--	--	--	--	7.25	8.25	--	--	7.52

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH(SU)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	8.21	*	8.12	7.76	7.90	8.08	8.39	--
BLT-2	7.77	*	7.55	7.73	7.65	7.72	7.82	--
BLT-3	7.61	*	--	--	--	--	--	--
BLT-4	7.83	*	7.61	7.70	7.93	7.78	7.81	7.75
BLT-5	7.46	*	7.20	7.26	7.28	7.18	7.29	7.26
BLT-6	8.14	*	7.49	8.04	7.88	7.94	7.80	7.47
BLT-7	8.19	*	7.64	7.88	7.81	7.9	7.71	7.26
BLT-8	7.44	*	7.28	7.42	7.58	7.37	7.47	--
BLT-9	7.66	*	--	7.49	7.68	--	--	--
BLT-10	8.16	*	7.69	8.30	8.18	8.21	8.10	7.86
BLT-11	8.17	*	8.02	8.05	8.15	8.4	8.01	8.05
BLT-12	7.36	*	8.05	--	7.53	--	--	--

NOTES:
1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

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Appendix D, Table 20

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	pH (SU)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/2/2021**	**7/26/2021**	**10/13/2021**
BLT-1	7.28	7.25	7.71	7.87	8.13	7.19
BLT-2	--	--	--	7.50	7.47	6.92
BLT-3	--	--	--	7.12	6.97	7.14
BLT-4	6.92	8.23	8.69	8.16	8.35	7.85
BLT-5	6.93	8.04	7.91	7.74	7.93	7.72
BLT-6	7.69	7.31	8.11	7.60	7.85	7.65
BLT-7	7.48	7.12	7.67	7.72	7.80	7.24
BLT-8	7.43	7.23	8.02	7.71	8.14	7.55
BLT-9	--	--	--	--	7.90	7.31
BLT-10	8.11	7.63	7.86	7.45	7.78	7.28
BLT-11	7.68	7.51	7.81	7.69	7.89	7.78
BLT-12	--	--	--	7.82	7.93	--

NOTES:

1. -- = no available data
2. * = No data due to field instrument malfunction.
3. Cells that are **BOLD** and shaded indicate that result does not meet NYSDEC Part 703. For NYSDEC Class A surface waters, pH must be between 6.5 and 8.5 S.U.

LaBella Associates, DPC

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Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)									
	Spring		Summer	Fall	Spring		Summer		Fall	
	2/8/2002	3/20/2002	5/21/2002	9/16/2002	4/25/2003	6/6/2003	7/8/2003	9/18/2003	10/15/2003	12/16/2003
BLT-1	2.50	4.80	8.80	--	16.40	15.70	--	--	14.10	1.20
BLT-2	2.00	2.80	8.80	19.40	11.40	15.00	17.70	16.50	13.40	3.70
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	2.00	2.40	10.90	20.10	14.20	17.10	21.40	18.10	15.10	3.50
BLT-5	6.40	4.80	10.30	17.10	12.70	12.90	16.00	15.50	13.70	7.10
BLT-6	5.60	2.30	8.90	18.00	11.30	13.90	18.00	16.00	13.30	2.90
BLT-7	3.50	3.00	10.30	16.10	12.60	14.20	15.80	14.50	13.00	3.80
BLT-8	2.20	3.90	10.80	19.10	12.60	13.30	19.30	16.80	13.90	8.00
BLT-9	--	--	9.50	--	--	12.10	--	--	--	4.90
BLT-10	4.00	3.90	9.60	18.30	12.50	14.00	17.20	16.80	13.40	4.30
BLT-11	2.00	4.10	14.00	21.20	12.50	19.00	27.20	20.90	15.40	3.50
BLT-12	--	--	10.90	17.30	10.30	11.20	17.10	16.70	14.10	8.90

NOTES:

1. -- = no available data

Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)									
	Spring		Summer		Fall		Spring		Summer	
	2/19/2004	3/30/2004	3/31/2004	4/15/2004	6/22/2004	6/22/2004	5/12/2005	5/31/2005	6/16/2005	7/21/2005
BLT-1	--	5.80	3.80	13.90	--	19.90	16.70	16.40	--	--
BLT-2	2.10	--	--	--	--	--	14.30	--	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	1.80	6.20	7.70	12.70	19.40	19.70	15.90	15.50	18.30	21.30
BLT-5	5.80	7.80	8.40	12.10	--	--	13.10	12.70	14.40	16.20
BLT-6	1.70	5.80	6.80	11.00	19.10	19.60	12.80	12.80	15.70	18.30
BLT-7	2.90	6.20	7.20	10.80	--	--	13.60	13.20	14.80	16.10
BLT-8	3.00	6.00	7.80	9.70	--	--	13.40	13.30	16.80	18.90
BLT-9	2.50	--	--	11.90	--	--	--	--	--	--
BLT-10	3.10	6.10	8.00	11.80	--	--	18.10	13.90	17.20	19.60
BLT-11	2.70	9.20	8.70	10.50	19.40	19.60	13.40	16.50	16.00	21.10
BLT-12	5.80	7.40	8.20	11.00	19.20	19.10	16.10	--	24.80	29.00

NOTES:

1. -- = no available data

Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)									
	Spring		Summer					Fall		
	3/31/2006	4/3/2006	5/23/2006	6/27/2006	7/8/2006	7/20/2006	7/26/2006	9/14/2006	10/1/2006	10/10/2006
BLT-1	15.60	11.10	16.40	21.60	20.80	21.00	21.00	16.50	--	--
BLT-2	14.80	10.00	--	--	--	--	--	--	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	15.20	10.60	15.50	21.00	20.20	22.00	21.90	16.30	16.20	17.90
BLT-5	--	--	12.70	15.40	16.10	18.60	18.40	15.90	15.60	15.90
BLT-6	13.70	9.60	12.80	18.50	18.40	18.40	18.80	16.00	15.30	15.80
BLT-7	13.50	8.90	13.20	17.20	17.80	17.90	18.20	15.80	15.70	15.30
BLT-8	14.40	9.60	13.30	18.70	18.10	19.40	20.00	15.90	15.80	15.00
BLT-9	--	--	--	--	--	--	--	--	--	--
BLT-10	12.90	9.80	12.90	18.60	18.60	18.50	18.80	15.90	15.70	16.50
BLT-11	13.20	9.80	13.90	19.70	19.40	20.70	21.00	16.70	16.10	17.00
BLT-12	14.30	9.60	16.50	15.50	15.80	16.00	16.60	17.80	--	--

NOTES:

1. -- = no available data

Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (C)										
	Spring		Summer		Fall			Spring		Summer	
								Dry	*Wet*	*Wet*	*Dry*
	5/16/2007	6/20/2007	7/10/2007	8/30/2007	9/10/2007	9/11/2007	10/3/2007	6/3/2008	6/4/2008	8/11/2008	8/13/2008
BLT-1	20.30	--	--	--	**--**	19.90	--	20.20	16.70	18.60	20.00
BLT-2	--	--	21.00	--	--	20.10	--	18.40	15.10	17.80	17.40
BLT-3	--	--	--	--	--	--	--	18.20	14.70	--	--
BLT-4	20.10	19.70	23.60	21.30	18.80	20.30	18.90	18.50	17.20	18.80	19.20
BLT-5	14.50	--	--	--	--	19.40	--	13.70	13.30	15.50	15.90
BLT-6	16.10	16.20	19.00	18.60	18.80	19.20	16.30	15.40	14.60	17.60	16.70
BLT-7	15.60	14.70	16.50	15.00	17.30	18.10	14.00	15.70	14.90	16.80	14.70
BLT-8	17.90	10.00	18.20	18.80	--	19.50	--	15.50	15.50	17.40	17.00
BLT-9	--	--	--	--	--	--	--	14.20	14.80	--	--
BLT-10	16.10	16.10	21.30	21.40	19.20	19.70	--	17.60	15.50	17.00	16.10
BLT-11	17.80	18.20	23.50	20.40	18.10	19.10	17.50	19.80	18.30	18.40	17.70
BLT-12	10.60	21.40	--	--	--	19.20	--	21.80	17.50	18.70	--

NOTES:

1. -- = no available data

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Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)											
	Fall		Spring		Summer		Fall		Spring		Summer	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	10/7/2008	**10/28/2008**	**3/24/2009**	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**
BLT-1	11.10	8.60	7.07	8.14	12.07	11.78	16.91	6.93	14.68	17.57	--	--
BLT-2	11.50	9.40	5.48	7.17	15.71	17.34	15.74	8.56	13.62	16.26	--	--
BLT-3	--	9.30	--	7.46	--	19.10	--	8.12	--	16.63	--	--
BLT-4	12.90	9.90	6.92	9.18	17.87	18.33	17.14	8.16	15.12	18.63	20.97	17.31
BLT-5	12.40	10.30	8.24	10.20	14.22	15.47	14.73	9.71	12.18	13.93	18.81	16.05
BLT-6	11.20	9.10	4.82	8.38	15.93	16.81	15.38	8.34	13.21	15.96	18.18	16.05
BLT-7	11.10	9.10	7.13	9.31	14.67	16.45	13.72	8.66	12.15	14.80	15.05	15.11
BLT-8	11.70	10.10	8.19	9.58	15.55	16.63	15.40	9.13	13.86	15.76	19.54	16.42
BLT-9	13.20	10.80	6.87	8.11	15.27	16.33	--	9.63	13.44	13.85	--	--
BLT-10	13.20	10.60	7.60	8.77	16.43	15.66	15.62	9.71	12.52	16.32	20.08	17.12
BLT-11	12.40	9.40	5.11	8.77	19.24	18.31	16.85	8.29	14.59	19.39	21.00	18.35
BLT-12	15.30	11.00	6.00	8.95	15.90	15.47	--	10.19	--	16.80	--	22.14

NOTES:

1. -- = no available data

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Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)											
	Fall		Spring		Summer	Fall		Spring	Summer		Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	10/14/2010	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	--	17.22	20.99	23.98	20.09	7.99	4.32	19.66	24.51	19.41	17.64	7.26
BLT-2	--	17.39	21.03	--	19.41	9.36	4.11	17.29	21.81	17.50	16.75	7.10
BLT-3	--	18.13	--	--	--	7.65	6.92	17.01	--	--	17.96	--
BLT-4	13.41	17.71	20.85	22.23	20.15	9.50	3.77	19.04	22.24	17.71	17.68	6.88
BLT-5	13.31	16.74	13.89	18.76	15.92	11.90	4.02	14.12	16.34	16.95	15.34	9.73
BLT-6	12.53	16.88	17.45	19.38	18.30	9.88	3.69	16.41	20.54	16.12	16.19	7.54
BLT-7	12.52	16.89	15.87	17.29	17.11	9.36	3.74	15.27	18.14	14.70	14.96	7.91
BLT-8	12.95	17.34	17.51	20.22	18.79	12.40	3.81	16.47	21.73	16.82	17.05	8.61
BLT-9	13.96	17.46	15.91	20.21	18.74	10.48	4.20	14.95	18.01	19.27	16.58	--
BLT-10	13.66	17.23	17.25	18.90	18.35	8.82	4.16	16.34	20.27	18.70	15.72	8.92
BLT-11	13.95	10.81	20.97	24.92	21.94	9.08	3.98	20.38	24.32	20.05	17.72	7.59
BLT-12	--	17.13	18.07	--	21.49	11.51	7.40	13.93	23.26	--	17.25	9.97

NOTES:

1. -- = no available data

LaBella Associates, DPC

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Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/17/2019**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	19.00	15.49	20.97	--	5.23	16.29	8.08	17.70	4.38	2.28
BLT-2	18.02	13.77	20.41	--	4.44	13.34	7.72	16.12	4.93	3.28
BLT-3	18.39	14.27	--	--	--	11.37	--	--	--	--
BLT-4	18.44	15.84	20.32	14.85	5.51	15.50	7.78	18.59	5.76	3.59
BLT-5	16.65	11.78	20.10	14.81	9.45	12.56	7.18	15.92	9.32	6.45
BLT-6	17.56	13.60	20.34	13.56	6.04	14.28	7.94	15.98	5.84	3.98
BLT-7	17.59	12.82	21.02	12.54	7.07	13.67	7.90	15.09	6.91	4.94
BLT-8	17.84	13.49	20.87	14.10	7.42	15.17	7.37	17.99	6.36	5.26
BLT-9	16.60	13.22	21.22	15.84	9.04	13.32	--	--	7.86	5.30
BLT-10	17.85	13.70	20.94	15.60	9.28	15.10	8.21	17.05	6.30	5.83
BLT-11	18.80	15.43	20.61	15.82	5.63	14.94	8.40	20.97	6.32	4.95
BLT-12	16.55	12.11	20.70	--	6.52	13.61	--	16.16	8.18	8.37

NOTES:

1. -- = no available data

Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	9.70	14.62	21.64	--	--	--	24.00	--	--	9.80
BLT-2	8.89	14.95	18.67	--	--	--	--	--	--	9.10
BLT-3	8.59	--	--	--	--	--	--	--	--	--
BLT-4	11.15	--	19.65	--	6.33	13.30	22.40	20.60	--	10.80
BLT-5	11.56	11.77	14.20	16.80	10.92	14.00	20.60	17.90	15.00	11.10
BLT-6	10.41	14.07	17.10	17.58	12.23	12.90	19.90	18.10	14.10	10.30
BLT-7	11.17	14.41	14.91	15.71	8.22	11.30	16.30	15.10	12.80	10.10
BLT-8	13.20	14.92	18.51	--	11.10	12.70	22.20	18.90	--	13.00
BLT-9	11.42	15.87	16.27	--	--	--	21.10	--	--	12.60
BLT-10	12.94	13.40	16.28	18.84	10.13	13.30	21.80	20.80	--	12.70
BLT-11	14.36	17.32	21.51	22.66	9.31	13.70	23.70	23.10	16.10	11.70
BLT-12	11.25	--	--	--	--	15.10	24.90	--	--	13.10

NOTES:

1. -- = no available data

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Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	14.2	--	5.4	17.7	19.9	17.9	17.6	--
BLT-2	11.3	17.5	5.3	15.7	19.3	15.7	15.9	--
BLT-3	10.0	--	--	--	--	--	--	--
BLT-4	12.9	18.6	6.2	17.3	19.9	17.4	16.5	15.6
BLT-5	11.0	15.8	9.2	12.5	15.5	12.9	13.9	14.9
BLT-6	11.9	16.1	6.8	14.7	17.7	14.9	15	13.6
BLT-7	11.7	14.2	7.0	13.7	16.1	13.3	13.2	12.2
BLT-8	12.7	17.7	6.6	14.7	18.6	15	15.5	--
BLT-9	11.9	--	--	13.6	17.0	--	--	--
BLT-10	11.9	16.1	9.6	14.0	17.2	13.6	14.0	15.8
BLT-11	12.9	21.6	6.1	18.6	17.8	17.9	16.8	15.6
BLT-12	11.6	--	7.9	--	15.8	--	--	--

NOTES:

1. -- = no available data

Appendix D, Table 21

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Temperature (°C)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BLT-1	19.4	19.4	10.7	13.4	19.2	12.9
BLT-2	--	--	--	11.6	16.7	12.0
BLT-3	--	--	--	9.4	14.8	13.7
BLT-4	17.1	17.0	10.1	12.5	18.2	13.0
BLT-5	12.3	14.3	9.9	9.4	12.8	11.0
BLT-6	14.3	16.8	9.8	10.4	15.8	1.8
BLT-7	12.9	13.0	9.0	9.9	13.6	10.3
BLT-8	16.5	16.7	9.9	10.6	15.3	12.3
BLT-9	--	--	--	--	15.8	12.2
BLT-10	14.5	14.8	9.8	9.8	14.0	11.3
BLT-11	18.7	18.5	10.3	11.8	16.6	13.4
BLT-12	--	--	--	11.0	17.0	--

NOTES:

1. -- = no available data

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Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Spring		Summer		Fall		Spring		Summer	
	2/8/2002	3/20/2002	5/21/2002	9/12/2002	9/16/2002	9/16/2002	4/25/2003	6/6/2003	7/8/2003	9/18/2003
BLT-1	183.0	480.0	134.0	--	68.0	--	202.0	137.0	--	--
BLT-2	797.0	620.0	299.0	--	423.0	354.0	396.0	361.0	795.0	741.0
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	793.0	580.0	425.0	--	613.0	470.0	662.0	511.0	812.0	762.0
BLT-5	1,641.0	896.0	1,133.0	--	273.0	1,223.0	1,392.0	1,223.0	1,562.0	1,451.0
BLT-6	659.0	280.0	315.0	697.0	420.0	407.0	335.0	356.0	428.0	600.0
BLT-.7	544.0	530.0	431.0	644.0	496.0	496.0	520.0	537.0	600.0	605.0
BLT-8	1,215.0	940.0	624.0	755.0	780.0	793.0	1,292.0	732.0	1,049.0	781.0
BLT-9	--	--	304.0	--	--	--	--	366.0	--	--
BLT-10	212.0	100.0	112.0	--	184.0	184.0	110.0	100.0	152.0	186.0
BLT-11	192.0	200.0	154.0	--	168.0	168.0	166.0	159.0	183.0	188.0
BLT-12	--	--	542.0	--	855.0	855.0	580.0	710.0	495.0	559.0

NOTES:

1. -- = no available data

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Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Fall		Spring		Summer		Spring			Summer
	10/15/2003	12/16/2003	2/19/2004	3/30/2004	6/16/2005	7/21/2005	3/31/2006	4/3/2006	5/23/2006	6/27/2006
BLT-1	15.0	189.0	--	184.0	--	--	168.0	145.0	132.0	148.0
BLT-2	597.0	344.0	477.0	--	--	--	587.0	412.0	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	664.0	412.0	562.0	592.0	843.0	720.0	586.0	556.0	465.0	453.0
BLT-5	1,286.0	922.0	1,117.0	1,070.0	1,503.0	1,564.0	--	--	1,074.0	1,318.0
BLT-6	435.0	281.0	337.0	328.0	535.0	553.0	374.0	333.0	279.0	305.0
BLT-.7	496.0	312.0	376.0	365.0	547.0	535.0	411.0	284.0	374.0	380.0
BLT-8	797.0	618.0	1,116.0	1,323.0	1,337.0	1,157.0	1,000.0	1,503.0	649.0	750.0
BLT-9	--	218.0	572.0	--	--	--	--	--	--	--
BLT-10	136.0	101.0	110.0	100.0	144.0	192.0	126.0	122.0	133.0	118.0
BLT-11	189.0	149.0	198.0	184.0	234.0	227.0	212.0	217.0	185.0	199.0
BLT-12	503.0	554.0	467.0	518.0	556.0	590.0	471.0	1,326.0	532.0	411.0

NOTES:

1. -- = no available data

Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Summer			Fall		Spring	Summer			Fall
	7/8/2006	7/20/2006	9/14/2006	10/1/2006	10/10/2006	5/16/2007	6/20/2007	7/10/2007	8/30/2007	9/10/2007
BLT-1	148.0	159.0	193.0	--	--	172.0	--	--	--	--
BLT-2	--	--	--	--	--	--	--	434.0	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	471.0	590.0	416.0	330.0	586.0	562.0	432.0	507.0	528.0	900.0
BLT-5	1,436.0	1,312.0	846.0	468.0	1,216.0	1,004.0	--	--433	--	--
BLT-6	322.0	380.0	274.0	281.0	457.0	283.0	322.0	446.0	468.0	740.0
BLT-.7	281.0	377.0	247.0	195.0	401.0	422.0	369.0	627.0	425.0	528.0
BLT-8	745.0	774.0	617.0	483.0	736.0	800.0	522.0	--	547.0	--
BLT-9	--	--	--	--	--	--	--	--	--	--
BLT-10	121.0	178.0	130.0	150.0	210.0	131.0	151.0	179.0	260.0	338.0
BLT-11	211.0	217.0	190.0	179.0	240.0	210.0	187.0	218.0	233.0	263.0
BLT-12	399.0	475.0	409.0	395.0	472.0	452.0	431.0	--	--	--

NOTES:

1. -- = no available data

LaBella Associates, DPC

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Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Fall		Spring		Summer		Fall		Spring	
			Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	9/11/2007	**10/3/2007**	**6/3/2008**	**6/4/2008**	**8/11/2008**	**8/13/2008**	**10/7/2008**	**10/28/2008**	**3/24/2009**	**4/15/2009**
BLT-1	365.0	--	128.0	100.0	146.0	98.0	157.0	204.0	124.0	355.0
BLT-2	358.0	--	166.0	133.0	247.0	550.0	832.0	147.0	398.0	557.0
BLT-3	--	--	330.0	134.0	--	--	--	136.0	--	774.0
BLT-4	449.0	487.0	8.0	144.0	381.0	426.0	711.0	326.0	530.0	823.0
BLT-5	925.0	--	212.0	136.0	962.0	887.0	1,261.0	791.0	809.0	1,293.0
BLT-6	310.0	450.0	143.0	103.0	213.0	425.0	545.0	86.0	217.0	377.0
BLT-.7	367.0	380.0	6.0	118.0	266.0	444.0	606.0	185.0	377.0	657.0
BLT-8	579.0	--	305.0	140.0	490.0	555.0	750.0	369.0	1,153.0	1,534.0
BLT-9	--	--	150.0	119.0	--	--	710.0	415.0	806.0	1,178.0
BLT-10	278.0	--	83.0	69.0	217.0	237.0	352.0	267.0	168.0	141.0
BLT-11	255.0	223.0	156.0	112.0	219.0	217.0	312.0	221.0	158.0	246.0
BLT-12	565.0	--	377.0	219.0	388.0	--	864.0	186.0	448.0	565.0

NOTES:

1. -- = no available data

Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Summer		Fall		Spring		Summer		Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/30/2009	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**
BLT-1	228.0	154.0	151.0	161.0	109.0	109.0	NW	NW	NW	185.0
BLT-2	486.0	259.0	810.0	713.0	564.0	392.0	NW	NW	NW	212.0
BLT-3	--	219.0	--	287.0	NW	709.0	NW	NW	NW	237.0
BLT-4	713.0	401.0	926.0	377.0	758.0	474.0	643.0	579.0	651.0	282.0
BLT-5	387.0	472.0	1,383.0	680.0	1,125.0	913.0	947.0	829.0	696.0	739.0
BLT-6	433.0	202.0	648.0	278.0	462.0	310.0	539.0	506.0	562.0	192.0
BLT-.7	569.0	263.0	661.0	552.0	636.0	395.0	441.0	449.0	535.0	223.0
BLT-8	678.0	616.0	1,129.0	552.0	926.0	792.0	757.0	484.0	610.0	375.0
BLT-9	502.0	873.0	--	909.0	586.0	398.0	NW	NW	598.0	470.0
BLT-10	150.0	337.0	267.0	212.0	132.0	79.0	210.0	235.0	424.0	196.0
BLT-11	270.0	242.0	331.0	238.0	317.0	376.0	257.0	334.0	281.0	242.0
BLT-12	801.0	455.0	--	598.0	NW	690.0	NW	1,423.0	NW	630.0

NOTES:

1. -- = no available data

Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Spring		Summer	Fall		Spring	Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	6/29/2011	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	160.0	262.0	167.0	190.0	163.0	142.0	141.0	114.0	380.0	396.0
BLT-2	357.0	NW	552.0	433.0	561.0	522.0	703.0	1,262.0	559.0	949.0
BLT-3	NW	NW	NW	596.0	777.0	654.0	NW	NW	474.0	NW
BLT-4	679.0	811.0	660.0	407.0	843.0	554.0	574.0	1,063.0	724.0	887.0
BLT-5	1,413.0	1,360.0	1,228.0	1,097.0	1,303.0	1,021.0	1,061.0	1,383.0	1,484.0	1,160.0
BLT-6	389.0	598.0	422.0	335.0	419.0	349.0	410.0	1,406.0	610.0	695.0
BLT-.7	554.0	693.0	554.0	388.0	698.0	414.0	461.0	1,268.0	681.0	797.0
BLT-8	778.0	1,008.0	715.0	651.0	1,515.0	595.0	595.0	1,239.0	605.0	1,164.0
BLT-9	450.0	684.0	578.0	386.0	1,201.0	380.0	636.0	1,227.0	987.0	NW
BLT-10	100.0	252.0	197.0	413.0	211.0	125.0	136.0	490.0	510.0	406.0
BLT-11	384.0	520.0	397.0	448.0	207.0	299.0	364.0	780.0	678.0	590.0
BLT-12	754.0	NW	926.0	590.0	605.0	643.0	796.0	NW	765.0	1,108.0

NOTES:

1. -- = no available data

Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	151.0	190.0	244.0	NW	275.0	231.0	182.0	226.0	380.0	280.0
BLT-2	182.0	370.0	787.0	NW	671.0	374.0	579.0	714.0	1,132.0	860.0
BLT-3	202.0	478.0	NW	NW	NW	677.0	1,077.0	NW	NW	NW
BLT-4	170.0	467.0	711.0	681.0	669.0	470.0	645.0	713.0	1,152.0	886.0
BLT-5	422.0	522.0	1,335.0	1,364.0	1,268.0	801.0	1,259.0	1,731.0	2,199.0	2,357.0
BLT-6	124.0	307.0	552.0	940.0	627.0	271.0	307.0	562.0	637.0	769.0
BLT-.7	147.0	356.0	681.0	840.0	665.0	403.0	503.0	748.0	883.0	789.0
BLT-8	207.0	457.0	925.0	1,033.0	796.0	704.0	941.0	1,050.0	1,369.0	1,126.0
BLT-9	386.0	301.0	751.0	761.0	796.0	246.0	554.0	NW	1,162.0	719.0
BLT-10	96.0	257.0	212.0	320.0	464.0	201.0	97.0	253.0	648.0	409.0
BLT-11	304.0	249.0	388.0	564.0	444.0	336.0	352.0	502.0	930.0	812.0
BLT-12	610.0	462.0	739.0	NW	763.0	854.0	804.0	1,216.0	2,186.0	1,876.0

NOTES:

1. -- = no available data

LaBella Associates, DPC

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Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/17/2019**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	407.0	8.1	341.0	NW	NW	NW	304.4	NW	NW	280.2
BLT-2	984.0	7.7	969.0	NW	NW	NW	NW	NW	NW	613.4
BLT-3	1,659.0	--	NW	NW	NW	NW	NW	NW	NW	NW
BLT-4	1,115.0	7.8	1,209.0	NW	1,071.0	1,297.0	844.0	1,215.0	NW	645.9
BLT-5	2,292.0	7.2	1,563.0	2,124.0	2,135.0	2,201.0	1,629.0	1,821.0	1,645.0	1,785.0
BLT-6	669.0	7.9	630.0	1,255.0	996.0	1,073.0	706.0	1,074.0	1,159.0	633.4
BLT-.7	1,010.0	7.9	922.0	1,071.0	1,034.0	996.0	800.0	861.0	847.0	771.0
BLT-8	2,131.0	7.4	1,469.0	NW	1,214.0	1,650.0	1,105.0	1,319.0	NW	795.0
BLT-9	1,286.0	--	1,152.0	NW	NW	NW	947.0	NW	NW	1,101.0
BLT-10	266.0	8.2	230.0	439.0	464.0	506.0	283.8	385.7	NW	483.7
BLT-11	981.0	8.4	676.0	757.0	666.0	820.0	599.0	623.0	496.1	429.8
BLT-12	1,978.0	--	NW	NW	NW	2,360.0	1,189.0	NW	NW	1,266.0

NOTES:

1. -- = no available data

LaBella Associates, DPC

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Appendix D, Table 22

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	179.3	--	125.6	198.0	204.4	222.2	163.4	--
BLT-2	391.6	711	704	828	470.3	713	993	--
BLT-3	859	--	--	--	--	--	--	--
BLT-4	557	990	610	852	588	669	881	937
BLT-5	1,223	1,578	1,296	1,415	1,685	1804	1849	1537
BLT-6	282.3	739	508	424.1	345	422.1	680	926
BLT-.7	495.0	760	494.7	800	552	716	861	783
BLT-8	967	1,130	666	1,280	701	1116	1009	--
BLT-9	468.9	--	--	863.0	390.4	--	--	--
BLT-10	119.3	291.8	347.1	141.8	138.0	95.5	197.8	233.8
BLT-11	447.6	649	481.0	568.0	474.0	542.3	605	549
BLT-12	1076	--	1308	--	1,005	--	--	--

NOTES:

1. -- = no available data

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Conductivity (µS/cm)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BLT-1	175.5	179.4	264.5	212.6	247.0	264.6
BLT-2	--	--	--	768	833	1296
BLT-3	--	--	--	1256	1377	1360
BLT-4	768	762	791	793	854	901
BLT-5	1652	1586	1500	1800	2133	1923
BLT-6	498.4	818	883	558.2	603.1	619.7
BLT-.7	751	792	765	835	663	951
BLT-8	973	942	888	1332	1117	1140
BLT-9	--	--	--	--	993	863
BLT-10	131.8	219.4	330.8	131.3	144.1	197.2
BLT-11	519.5	556	632.4	539.2	614	641.4
BLT-12	--	--	--	1739	1501	--

NOTES:

1. -- = no available data

Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)											
	Spring	Fall	Spring	Spring		Spring		Summer		Fall		
						Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	
	5/21/2002	9/16/2002	4/25/2003	3/30/2004	3/31/2004	6/3/2008	6/4/2008	8/11/2008	8/13/2008	10/7/2008	10/28/2008	
BLT-1	11.10	--	8.90	12.00	11.90	**2.90**	6.90	10.50	11.00	10.70	11.60	
BLT-2	10.60	4.50	11.00	--	--	**3.20**	6.90	9.20	7.70	9.30	11.30	
BLT-3	--	--	--	--	--	**2.70**	5.40	--	--	--	10.80	
BLT-4	10.10	7.50	9.30	12.00	11.30	**3.80**	6.90	10.80	11.80	10.80	11.60	
BLT-5	9.40	7.70	8.80	--	--	6.00	6.70	13.80	11.00	11.90	10.00	
BLT-6	10.60	6.50	8.30	12.20	11.40	4.90	**2.00**	11.90	11.10	10.70	10.40	
BLT-7	10.00	8.10	9.50	12.00	11.30	5.60	**2.30**	11.50	11.40	10.80	12.40	
BLT-8	10.10	6.50	9.70	11.80	11.30	**3.90**	**2.00**	9.40	12.20	9.80	11.90	
BLT-9	8.70	--	--	--	--	5.60	4.10	--	--	9.00	8.78	
BLT-10	10.40	7.90	10.20	--	--	5.60	**3.60**	8.70	12.00	10.20	9.50	
BLT-11	10.60	4.90	11.60	--	--	4.00	4.30	7.10	11.30	10.50	9.60	
BLT-12	10.20	8.40	11.20	--	--	**3.10**	**3.90**	6.60	--	9.50	7.60	

NOTES:
1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)											
	Spring		Summer		Fall		Spring		Summer		Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	3/24/2009	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**
BLT-1	12.14	15.75	10.83	6.92	7.94	11.10	11.20	8.50	--	--	--	7.51
BLT-2	13.80	13.72	9.64	6.49	6.22	9.50	6.40	8.42	--	--	--	7.64
BLT-3	--	13.79	--	8.71	--	10.13	--	4.94	--	--	--	7.01
BLT-4	13.62	14.90	17.59	9.65	8.48	10.36	9.70	8.71	7.28	10.07	9.90	8.57
BLT-5	12.31	12.22	14.74	7.48	10.50	8.76	11.20	9.56	7.28	10.82	10.23	11.76
BLT-6	15.19	13.76	9.48	7.53	8.91	10.91	11.15	8.96	7.25	9.13	10.51	13.20
BLT-7	13.01	15.02	14.19	7.83	10.40	10.45	11.43	10.24	7.33	9.07	11.44	7.76
BLT-8	14.15	14.40	11.12	8.93	8.20	10.06	9.82	9.73	7.90	13.06	10.40	8.01
BLT-9	18.49	16.09	11.76	8.78	--	8.49	8.62	9.55	--	--	8.96	7.97
BLT-10	16.56	14.54	12.46	10.21	9.02	9.36	11.64	9.78	9.70	9.37	10.64	9.23
BLT-11	18.53	13.95	8.97	7.28	8.39	10.14	10.21	8.77	6.38	5.32	11.65	10.58
BLT-12	15.81	13.81	10.44	11.57	--	9.36	--	10.53	--	10.18	--	8.70

NOTES:
1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

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Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)									
	Spring		Summer	Fall		Spring	Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	6/29/2011	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	10.30	12.18	10.86	15.58	12.12	9.51	6.85	**3.14**	7.25	13.70
BLT-2	9.31	--	11.41	15.30	12.04	8.53	4.42	**3.09**	7.10	10.74
BLT-3	--	--	--	11.20	8.16	6.34	--	--	5.90	--
BLT-4	9.77	**3.81**	10.77	15.18	12.01	9.78	7.87	5.48	7.56	12.29
BLT-5	12.03	7.82	14.86	10.87	11.98	11.03	10.08	5.34	7.94	10.60
BLT-6	10.25	**3.00**	12.41	14.43	12.17	10.26	8.34	9.52	8.13	11.73
BLT-7	11.75	9.87	13.60	15.31	12.00	10.74	9.57	10.37	8.90	12.00
BLT-8	10.55	6.10	11.95	13.55	12.21	10.56	7.08	8.56	7.97	11.80
BLT-9	11.91	6.07	11.98	12.04	11.91	9.51	6.47	6.49	4.57	--
BLT-10	12.10	17.64	12.35	14.95	12.08	10.86	6.74	9.23	8.22	13.35
BLT-11	8.98	**2.45**	9.45	14.68	11.96	9.11	6.64	8.64	7.32	13.55
BLT-12	8.84	--	9.78	12.72	10.79	10.61	8.09	--	7.73	12.32

NOTES:
1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	7.53	9.34	8.74	--	14.03	8.46	**1.78**	7.68	11.13	16.25
BLT-2	7.91	9.27	6.71	--	12.87	10.51	**1.75**	5.47	11.01	13.40
BLT-3	7.64	6.28	--	--	--	7.43	**1.60**	--	--	--
BLT-4	8.49	10.23	8.20	10.15	13.83	8.33	**1.89**	5.92	14.12	16.30
BLT-5	8.03	11.32	6.47	9.84	10.35	9.51	**2.20**	6.25	12.03	12.15
BLT-6	8.74	10.33	8.33	9.20	13.54	9.25	**2.18**	6.11	16.84	14.32
BLT-7	8.51	10.83	7.75	9.98	12.52	9.43	**2.25**	6.52	17.29	12.80
BLT-8	7.24	10.87	7.97	9.30	12.45	9.02	**1.98**	6.50	15.71	12.81
BLT-9	8.02	9.86	6.82	7.17	12.28	8.46	**2.09**	--	11.75	12.90
BLT-10	7.96	10.73	8.12	9.52	12.31	9.08	**2.29**	6.36	13.46	12.49
BLT-11	7.92	10.18	7.20	9.01	14.10	11.00	**2.09**	5.86	14.26	13.09
BLT-12	9.82	10.68	8.18	--	10.98	14.77	**2.75**	7.44	14.11	10.60

NOTES:
1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result does not meet the NYSDEC Part 703 Water Quality Standard. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	11.85	8.60	**0.87**	--	--	--	6.50	--	--	12.09
BLT-2	13.70	8.71	4.81	--	--	--	--	--	--	7.55
BLT-3	9.64	--	--	--	--	--	--	--	--	--
BLT-4	12.74	--	8.28	--	9.12	7.23	4.12	8.23	--	11.68
BLT-5	11.92	8.88	9.50	7.40	18.62	6.99	5.94	8.45	**3.40**	9.71
BLT-6	12.32	7.41	8.35	6.95	10.78	6.71	6.27	7.49	6.90	11.15
BLT-7	11.71	9.61	9.01	7.75	12.54	8.57	6.04	8.40	7.18	11.93
BLT-8	12.24	5.41	7.32	--	9.56	**1.98**	6.65	5.52	--	10.82
BLT-9	10.18	5.30	8.28	--	--	--	5.46	--	--	9.44
BLT-10	12.51	7.63	8.63	6.76	8.96	6.33	5.62	5.97	--	8.56
BLT-11	9.82	4.98	7.51	7.13	11.77	6.62	4.93	5.99	6.07	9.84
BLT-12	12.61	--	--	--	--	6.94	5.30	--	--	9.63

NOTES:
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3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 23

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	15.11	--	8.66	8.42	8.06	7.12	6.96	--
BLT-2	13.40	4.75	5.11	6.35	8.12	7.44	**2.66**	--
BLT-3	7.24	--	--	--	--	--	--	--
BLT-4	13.36	8.17	8.90	9.89	8.37	8.42	8.30	11.25
BLT-5	11.94	9.60	6.13	11.32	9.49	9.94	9.58	4.51
BLT-6	12.87	8.68	6.84	10.80	9.46	8.69	9.34	6.26
BLT-7	12.99	9.13	6.82	10.90	9.50	8.32	7.99	12.32
BLT-8	12.63	7.12	7.31	9.92	8.62	7.99	6.82	--
BLT-9	11.44	--	--	10.39	5.86	--	--	--
BLT-10	15.01	8.96	5.69	10.91	8.09	9.29	8.38	9.62
BLT-11	12.82	7.65	8.43	8.91	9.15	6.21	7.27	10.67
BLT-12	13.76	--	5.91	--	8.37	--		--

NOTES:
1. -- = no available data.
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3. NM = Not Measured, due to instrument malfunction.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Oxygen (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/2/2021**	**7/26/2021**	**10/13/2021**
BLT-1	4.96	5.57	NM	7.84	7.70	8.41
BLT-2	--	--	--	8.01	4.72	**3.70**
BLT-3	--	--	--	5.51	4.70	7.80
BLT-4	5.11	9.40	NM	9.81	8.38	8.17
BLT-5	7.00	12.20	NM	9.93	9.55	9.12
BLT-6	**2.81**	10.30	NM	10.76	7.62	8.87
BLT-7	**3.29**	13.20	NM	11.20	10.19	8.93
BLT-8	**2.51**	9.50	NM	11.22	10.00	7.91
BLT-9	--	--	--	--	7.64	6.32
BLT-10	4.22	10.18	NM	11.81	10.64	7.90
BLT-11	**1.86**	10.91	NM	9.95	7.15	9.72
BLT-12	--	--	--	9.12	8.23	--

NOTES:
1. -- = no available data.
2. Cells that are **BOLD /** shaded indicate that the result does not meet NYSDEC Part 703. For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
3. NM = Not Measured, due to instrument malfunction.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)									
	Spring		Summer		Fall		Fall			
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	9/18/2003	10/15/2003	10/15/2003	12/16/2003
BLT-1	0.70	--	44.10	--	13.50	--	--	1.40	1.40	0.58
BLT-2	1.20	--	274.00	--	91.10	3.80	2.42	0.80	0.80	0.71
BLT-3							--	--	--	--
BLT-4	4.10	290.00	4.80	--	63.20	1.20	0.31	1.09	1.09	5.72
BLT-5	1.20	--	477.00	--	1,468.00	2.20	0.58	0.38	0.38	0.63
BLT-6	0.90	11.00	4.40	0.60	852.00	1.20	0.94	0.69	0.69	0.35
BLT-7	1.80	--	>8800	1.80	--	1.60	0.62	0.67	0.67	0.87
BLT-8	2.40	--	>8800	0.20	2,472.00	1.20	1.07	0.31	0.31	1.49
BLT-9	2.30	--	--	--	--	--	--	--	--	0.21
BLT-10	9.90	--	2,278.00	--	1,488.00	5.20	0.92	1.31	1.31	1.78
BLT-11	3.50	--	4.70	--	112.00	32.40	5.28	1.87	1.87	1.25
BLT-12	0.80	--	>8800	--	3,293.00	1.70	0.80	0.43	0.43	1.50

NOTES:
1. -- = no available data

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Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)										
	Spring			Summer		Spring		Spring		Summer	
	2/19/2004	3/30/2004	3/31/2004	6/22/2004	6/22/2004	5/12/2005	5/31/2005	3/31/2006	4/3/2006	5/23/2006	7/20/2006
BLT-1	--	0.74	2.25	--	5.80	3.93	1.43	0.46	3.42	0.88	2.60
BLT-2	0.39	--	--	--	--	1.25	--	2.02	213.00	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--	--
BLT-4	10.50	2.73	8.61	--	--	2.64	1.89	0.67	91.00	1.10	1.82
BLT-5	0.87	1.31	--	10.20	24.30	3.06	1.56	--	--	0.56	0.72
BLT-6	2.58	0.85	3.63	3.88	25.00	2.01	3.38	1.01	68.20	0.55	1.09
BLT-7	2.82	0.45	2.97	--	--	1.01	1.92	0.45	38.80	0.88	1.10
BLT-8	0.66	0.31	1.64	--	--	0.73	4.47	0.23	60.70	0.45	0.62
BLT-9	2.10	--	--	--	--	--	--	--	--	--	--
BLT-10	2.25	4.28	--	13.80	62.00	4.66	3.10	0.49	29.20	0.85	1.15
BLT-11	1.12	0.89	--	10.20	18.40	2.99	3.60	0.39	20.00	2.83	3.50
BLT-12	0.69	2.56	--	--	--	1.27	1.30	0.59	86.40	0.49	1.20

NOTES:
1. -- = no available data

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)									
	Spring		Summer		Fall			Spring	Summer	
								Wet	*Wet*	*Dry*
	5/16/2007	6/20/2007	7/10/2007	8/30/2007	9/10/2007	9/11/2007	10/3/2007	6/4/2008	8/11/2008	8/13/2008
BLT-1	1.47	--	2.85	--	--	3.10	--	1.26	13.70	9.50
BLT-2	--	--	--	--	--	3.20	--	18.12	57.20	10.70
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	0.67	0.39	0.81	0.18	0.44	8.30	0.43	91.00	1.10	1.82
BLT-5	0.63	--	--	--	--	2.00	--	--	0.56	0.72
BLT-6	1.07	1.77	0.28	0.39	0.12	9.60	0.22	68.20	0.55	1.09
BLT-7	0.68	0.46	0.28	1.89	1.26	1.50	1.30	38.80	0.88	1.10
BLT-8	0.96	0.46	0.42	0.32	--	7.30	--	60.70	0.45	0.62
BLT-9	--	--	--	--	--	--	--	--	--	--
BLT-10	1.34	0.30	0.34	0.35	0.63	1.20		29.20	0.85	1.15
BLT-11	5.89	2.49	5.50	6.08	11.50	23.60	18.10	20.00	2.83	3.50
BLT-12	0.42	2.97	--	--	--	2.30	--	86.40	0.49	1.20

NOTES:
1. -- = no available data

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)										
	Fall		Spring		Summer		Fall		Spring		Summer
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	10/7/2008	**10/28/2008**	**3/24/2009**	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**
BLT-1	17.20	54.30	49.90	17.35	6.10	10.95	10.00	13.41	5.48	2.10	--
BLT-2	54.75	54.35	0.00	27.10	0.00	34.99	0.00	4.14	5.85	2.20	--
BLT-3	--	--	--	0.00	--	119.90	--	78.35	--	0.80	--
BLT-4	54.80	54.31	53.25	0.00	0.00	56.18	56.55	5.43	1.68	0.40	0.50
BLT-5	47.65	54.35	47.95	13.69	25.10	157.60	56.35	163.50	8.94	0.80	5.80
BLT-6	53.50	54.35	55.45	1.64	1.15	89.85	56.25	24.44	4.57	3.00	0.70
BLT-7	34.85	54.40	29.70	0.36	0.00	40.00	56.30	130.30	1.64	0.60	25.00
BLT-8	55.05	54.55	55.30	0.77	0.00	43.17	56.15	7.51	2.57	1.70	0.80
BLT-9	55.05	58.55	14.15	6.42	0.00	137.40	--	581.50	72.50	0.50	--
BLT-10	55.00	54.55	55.30	3.35	0.00	37.21	20.10	39.12	1.51	1.00	50.00
BLT-11	55.20	54.60	55.25	10.85	0.00	68.26	56.20	6.74	17.10	2.00	2.00
BLT-12	1.40	54.80	32.05	1.39	0.00	3.25	--	23.26	--	2.80	--

NOTES:
1. -- = no available data

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)										
	Summer	Fall		Spring		Summer	Fall		Spring	Summer	
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	8/27/2010	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**
BLT-1	--	--	1.71	1.10	3.30	49.20	1.40	2.70	2.60	4.20	6.50
BLT-2	--	--	4.42	0.80	--	3.60	1.30	5.60	1.50	5.00	62.00
BLT-3	--	--	20.20	--	--	--	8.20	4.80	1.10	--	--
BLT-4	1.10	0.20	4.90	0.70	0.40	1.50	3.10	4.70	1.40	0.90	0.40
BLT-5	38.40	4.00	10.80	0.20	5.30	2.00	1.80	5.20	13.50	3.70	0.40
BLT-6	2.05	0.10	6.13	1.10	1.10	2.70	1.50	4.70	2.90	2.20	0.60
BLT-7	16.20	2.00	9.77	0.80	0.50	3.50	2.00	3.90	2.30	2.40	25.00
BLT-8	2.88	0.10	7.84	0.60	0.60	3.30	16.70	5.60	1.40	6.00	0.30
BLT-9	--	60.00	77.20	0.60	56.10	3.20	16.30	4.50	1.30	5.20	61.00
BLT-10	25.10	1.00	6.56	0.80	1.30	2.20	1.20	5.20	1.80	26.20	0.50
BLT-11	5.56	1.20	10.30	0.50	4.60	14.90	25.90	3.60	2.70	17.30	1.90
BLT-12	45.70	--	1.65	1.50	--	8.20	3.90	6.20	3.50	9.60	--

NOTES:
1. -- = no available data

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Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)										
	Fall		Spring		Summer		Fall	Spring		Summer	Fall
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	10/3/2012	**12/11/2012**	**5/23/2013**	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**
BLT-1	2.10	6.20	9.60	1.50	7.60	--	3.90	1.40	2.00	4.30	2.90
BLT-2	2.40	0.90	17.60	1.30	4.30	--	3.10	1.00	5.70	2.20	1.40
BLT-3	22.70	--	9.90	7.80	--	--	--	1.00	2.20	--	--
BLT-4	0.90	0.40	23.90	1.30	0.90	0.30	0.80	0.50	0.40	0.50	1.50
BLT-5	0.40	0.50	10.00	0.80	0.70	0.50	1.90	1.60	0.40	0.30	0.70
BLT-6	1.80	1.30	26.80	1.40	2.20	0.50	3.50	0.70	1.00	0.70	0.90
BLT-7	2.70	1.30	35.30	3.80	1.40	1.60	16.80	0.70	1.30	0.50	15.50
BLT-8	1.10	6.90	51.30	0.70	0.60	0.50	0.70	0.70	0.50	0.50	1.50
BLT-9	13.50	--	8.80	4.10	40.40	62.20	15.10	1.60	9.90	--	1.70
BLT-10	4.30	1.30	39.10	3.30	13.00	6.50	6.30	0.30	1.40	1.40	3.80
BLT-11	1.00	11.00	26.60	1.70	1.00	4.30	0.50	0.40	14.20	0.40	1.00
BLT-12	1.20	1.30	50.40	1.40	27.20	--	1.10	1.40	1.40	0.60	0.50

NOTES:
1. -- = no available data

Appendix D, Table 24

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)										
	Fall	Spring		Summer		Fall		Spring		Fall	
	Dry	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Dry*	*Wet*
	12/18/2014	**4/28/2015**	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**6/17/2019**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	0.90	1.10	2.10	4.60	--	--	--	8.08	--	--	1.97
BLT-2	0.60	0.50	84.00	8.50	--	--	--	7.72	--	--	13.30
BLT-3	--	1.00	--	--	--	--	--	--	--	--	--
BLT-4	2.50	1.00	--	0.40	--	0.90	2.70	7.78	1.50	--	1.50
BLT-5	1.20	0.70	3.00	2.20	1.30	0.50	1.50	7.18	1.40	1.30	2.80
BLT-6	0.50	1.80	6.70	1.80	5.80	0.90	0.90	7.94	0.40	2.60	1.20
BLT-7	0.60	5.40	2.20	5.20	8.00	0.90	5.80	7.90	0.60	0.60	1.40
BLT-8	13.20	0.30	0.50	0.60	--	1.50	1.90	7.37	0.90	--	4.80
BLT-9	73.80	2.90	1.00	30.00	--	--	--	--	--	--	6.00
BLT-10	3.00	1.50	1.10	1.80	32.70	1.10	2.60	8.21	5.40	--	13.70
BLT-11	2.40	6.50	13.20	4.30	96.60	4.70	43.70	8.40	4.60	10.30	2.80
BLT-12	0.40	0.10	--	--	--	--	16.10	--	--	--	6.20

NOTES:
1. -- = no available data

LaBella Associates, DPC

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Appendix D, Table 24

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	3.8	--	1.3	1.8	1.1	2.8	6.5	--
BLT-2	0.7	2.8	7.4	2.2	3.6	3.1	5.9	--
BLT-3	0.5	--	--	--	--	--	--	--
BLT-4	2.1	0.3	0.4	1.4	2.1	2.3	0.2	1.0
BLT-5	0.6	0.9	1.2	0.1	0.3	0.9	0.6	1.0
BLT-6	0.7	0.4	0.2	0.8	0.6	6.9	2.4	1.1
BLT-7	2.9	7.1	0.2	0.5	1.0	1.0	6.8	2.9
BLT-8	0.7	0.2	0.5	0.3	1.3	0.7	0.5	--
BLT-9	2.2	--	--	0.3	0.8	--	--	--
BLT-10	4.7	4.2	0.4	2.5	1.8	0.3	2.9	0.9
BLT-11	1.6	1.6	0.4	1.5	1.4	0.3	3.6	1.9
BLT-12	1.2	--	0.1	--	0.2	--	--	--

NOTES:
1. -- = no available data

Appendix D, Table 24

Byram Lake

Seasonal Water Quality Parameters

Tributary Field Parameters

Complete Data Record (2002-2021)

Location Name	Turbidity (NTU)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/2/2021	7/26/2021	10/13/2021
BLT-1	1.3	2.2	0.6	1.1	3.8	2.50
BLT-2	--	--	--	10.1	12.3	4.67
BLT-3	--	--	--	2.9	0.7	19.8
BLT-4	0.8	1.4	0.3	1.2	1.1	1.01
BLT-5	1.0	1.2	0.5	1.0	1.2	2.47
BLT-6	2.1	0.1	0.6	2.0	3.6	1.75
BLT-7	2.9	1.3	1.0	0.5	1.8	3.09
BLT-8	9.7	6.9	0.9	0.8	2.2	0.262
BLT-9	--	--	--	--	E	16.8
BLT-10	3.9	0.4	0.6	0.9	1.6	14.2
BLT-11	1.3	3.1	0.6	11.1	5.2	1.63
BLT-12	--	--	--	4.2	41.9	--

NOTES:

1. -- = no available data

E = turbidity exceeded the imstrument range.

LaBella Associates, DPC

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Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)										
	Spring		Summer	Fall		Spring		Spring		Summer	
								Dry	*Wet*	*Wet*	*Dry*
	5/21/2002	5/28/2002	6/6/2002	9/16/2002	9/16/2002	3/31/2006	4/3/2006	6/3/2008	6/4/2008	8/11/2008	8/13/2008
BLT-1	6.90	*	**28.90**	4.90	--	10.20	9.30	15.70	**21.60**	7.10	5.00
BLT-2	**23.40**	*	**34.20**	**25.50**	**33.60**	**37.30**	**37.30**	**66.40**	**52.30**	**27.70**	**52.00**
BLT-3	--	--	--	--	--	--	--	**116.80**	**110.40**	--	--
BLT-4	**31.30**	**27.30**	**39.20**	**49.10**	**34.50**	**40.80**	**51.40**	**64.80**	**48.90**	**28.50**	**47.00**
BLT-5	**111.30**	*	**53.40**	**25.40**	**101.80**	*	*	**108.60**	**105.10**	**97.80**	**108.50**
BLT-6	**21.70**	**28.70**	**25.70**	**33.50**	**25.70**	**23.60**	**23.20**	**31.70**	**24.20**	17.10	**45.30**
BLT-7	**34.40**	*	**77.70**	**65.20**	**36.30**	**30.50**	**22.20**	**57.80**	**46.50**	**26.40**	**57.80**
BLT-8	**82.80**	*	**87.40**	**36.20**	**101.90**	**109.40**	**177.30**	**100.40**	**97.50**	**71.80**	**101.90**
BLT-9	**42.20**	*	--	--	--	--	--	**74.60**	**76.30**	**79.60**	**83.00**
BLT-10	5.50	*	**51.30**	9.20	8.10	6.30	6.40	11.10	9.20	19.30	**24.50**
BLT-11	5.20	*	10.30	7.90	5.20	7.30	7.50	10.70	9.30	7.60	8.90
BLT-12	**53.90**	*	**25.80**	**94.10**	**99.50**	**38.50**	**181.10**	**75.10**	**72.80**	**46.30**	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

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Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)										
	Fall		Spring		Summer		Fall		Spring		Summer
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	10/7/2008	**10/28/2008**	**3/24/2009**	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**
BLT-1	6.90	14.20	14.40	18.22	12.40	12.60	6.50	7.20	6.44	14.20	--
BLT-2	**63.00**	18.90	**64.20**	**52.90**	**39.70**	**26.90**	**53.40**	**52.10**	**50.60**	**39.70**	--
BLT-3	--	13.20	--	**87.00**	--	**31.60**	--	5.50	--	**102.00**	--
BLT-4	**53.50**	**20.60**	**83.30**	**75.60**	**56.80**	**44.70**	**72.70**	**38.40**	**74.20**	**51.30**	**68.20**
BLT-5	**104.90**	**68.90**	**115.20**	**102.40**	**110.30**	**92.70**	**113.60**	**82.60**	**122.00**	**113.00**	**121.00**
BLT-6	**38.20**	11.70	**24.10**	**26.40**	**31.40**	15.80	**46.80**	**21.50**	**37.40**	**23.50**	**61.00**
BLT-7	**49.60**	15.90	**56.20**	**57.40**	**48.40**	**29.10**	**63.80**	**39.70**	**63.50**	**46.80**	**49.00**
BLT-8	**95.50**	**45.30**	--	**175.60**	**93.00**	**83.70**	**116.50**	**85.30**	**126.00**	**103.00**	**116.00**
BLT-9	**79.50**	**51.00**	**112.50**	**100.80**	**51.90**	**160.90**	--	**81.00**	**73.80**	**53.30**	--
BLT-10	**24.70**	10.50	10.00	7.80	10.30	11.00	**21.20**	15.90	13.60	7.49	17.10
BLT-11	10.20	7.10	11.90	11.00	9.60	10.50	10.70	9.10	12.10	8.14	10.10
BLT-12	**76.60**	13.20	**81.10**	**85.40**	**67.00**	**55.10**	--	**66.30**	--	**94.70**	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)										
	Summer	Fall		Spring		Summer	Fall		Spring	Summer	
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	8/27/2010	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**
BLT-1	--	--	15.70	9.60	16.10	10.70	11.70	6.80	8.30	3.30	3.80
BLT-2	--	--	**28.50**	**43.70**	--	**47.40**	**33.40**	**29.20**	**43.70**	**46.50**	**54.70**
BLT-3	--	--	**27.00**	--	--	--	**66.90**	**43.40**	**87.20**	--	--
BLT-4	**81.10**	**68.40**	**26.20**	**63.40**	**77.50**	**59.80**	**43.70**	**24.70**	**48.50**	**49.00**	**62.80**
BLT-5	**126.00**	**117.00**	**90.70**	**119.00**	**129.40**	**116.90**	**99.40**	**69.40**	**102.00**	**114.80**	**118.60**
BLT-6	**66.50**	**56.80**	**21.70**	**31.80**	**48.40**	**34.90**	**22.20**	**22.60**	**26.30**	**31.10**	**63.30**
BLT-7	**65.90**	**60.30**	**26.70**	**54.50**	**60.90**	**52.10**	**32.80**	**30.90**	**43.10**	**41.20**	**52.90**
BLT-8	**119.00**	**106.00**	**71.50**	**102.20**	**122.20**	**98.90**	**84.30**	**57.30**	**85.20**	**74.00**	**101.90**
BLT-9	--	**88.60**	**66.90**	**53.50**	**85.40**	**71.80**	**47.90**	**38.20**	**53.40**	**76.60**	**76.20**
BLT-10	**28.70**	**33.90**	18.40	10.80	**24.10**	15.10	5.90	3.50	9.70	7.90	**24.20**
BLT-11	10.10	10.80	9.36	14.60	16.20	13.50	**21.50**	13.20	12.30	11.50	14.70
BLT-12	**129.00**	--	**92.70**	**73.60**	--	**71.90**	**60.20**	**61.70**	**59.40**	**61.80**	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)										
	Fall		Spring		Summer		Fall	Spring		Summer	Fall
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Wet*	*Dry*
	10/3/2012	**12/11/2012**	**5/23/2013**	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**
BLT-1	16.20	**61.20**	15.40	12.70	14.60	--	11.00	18.20	17.10	9.50	16.70
BLT-2	**41.60**	**72.70**	**25.10**	**54.00**	**60.30**	--	**51.50**	**57.40**	**65.50**	**95.10**	**97.90**
BLT-3	11.80	--	**36.10**	**123.00**	--	--	--	**147.30**	**173.70**	--	--
BLT-4	**40.60**	**56.30**	18.20	**71.30**	**70.30**	**86.60**	**64.80**	**72.60**	**84.00**	**94.40**	**111.90**
BLT-5	**113.30**	**106.90**	**60.80**	**131.30**	**153.60**	**161.60**	**146.70**	**126.70**	**169.30**	**151.40**	**175.40**
BLT-6	**27.40**	**24.10**	15.20	**33.40**	**42.20**	**90.00**	**50.30**	**31.30**	**31.20**	**46.40**	**36.30**
BLT-7	**40.20**	**36.60**	**20.30**	**56.50**	**67.40**	**80.10**	**57.90**	**61.40**	**71.20**	**84.70**	**72.60**
BLT-8	**88.10**	**89.40**	**34.40**	**116.90**	**140.40**	**140.90**	**114.50**	**153.00**	**169.70**	**141.40**	**152.20**
BLT-9	**85.90**	--	**60.70**	**54.10**	**110.10**	**111.90**	**94.40**	**44.10**	**81.00**	--	**112.40**
BLT-10	**21.30**	11.20	10.80	13.40	17.30	**20.80**	**27.10**	17.60	12.00	18.80	**39.50**
BLT-11	13.30	14.70	16.50	18.40	16.50	16.70	16.00	**30.30**	**26.00**	**22.20**	**30.90**
BLT-12	**58.60**	10.00	**78.80**	**99.90**	**82.70**	--	**83.50**	**137.60**	**116.00**	**107.60**	**206.20**

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

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Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)										
	Fall	Spring		Summer		Fall		Summer		Fall	
	Wet	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	12/18/2014	4/28/2015	6/9/2015	7/15/2015	9/2/2015	10/1/2015	10/22/2015	8/17/2016	8/31/2016	9/26/2016	10/31/2016
BLT-1	13.50	**21.70**	**20.80**	**24.00**	--	--	--	**33.70**	--	--	**21.60**
BLT-2	**68.30**	**68.70**	**73.90**	**98.60**	--	--	--	--	--	--	**65.40**
BLT-3	--	**155.30**	--	--	--	--	--	--	--	--	--
BLT-4	**66.90**	**83.10**	--	**136.80**	--	**108.30**	**127.40**	**106.10**	**136.90**	--	**72.10**
BLT-5	**173.70**	**161.90**	**168.70**	**220.10**	**216.50**	**214.10**	**203.30**	**181.50**	**192.20**	**188.80**	**173.60**
BLT-6	**45.50**	**34.40**	**31.40**	**61.40**	**128.10**	**89.80**	**104.20**	**75.00**	**108.20**	**116.80**	**61.20**
BLT-7	**67.30**	**69.80**	**80.70**	**111.30**	**104.00**	**89.10**	**91.90**	**88.50**	**88.20**	**73.70**	**81.10**
BLT-8	**109.80**	**240.60**	**251.60**	**254.50**	--	**189.50**	**189.70**	**208.70**	**203.90**	--	**126.90**
BLT-9	**67.10**	**98.00**	**147.80**	**160.20**	--	--	--	**138.60**	--	--	**138.40**
BLT-10	19.10	18.90	**21.10**	**32.00**	**40.80**	**39.70**	**48.30**	**31.60**	**38.00**	--	**48.50**
BLT-11	**31.50**	**41.50**	13.20	**40.70**	**29.60**	**26.60**	**29.20**	**29.50**	**27.10**	18.40	14.40
BLT-12	**136.60**	**171.80**	--	--	--	--	**216.60**	**130.00**	--	--	**95.30**

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

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Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	**21.7**	--	11.8	16.4	15.7	17.8	7.6	--
BLT-2	**67.8**	**50.5**	**106.7**	**102.9**	**52.1**	**75.3**	**74.9**	--
BLT-3	**158.2**	--	--	--	--	--	--	--
BLT-4	**84.2**	**109.9**	**89.9**	**102.4**	**66.2**	**73.6**	**90.2**	**102.5**
BLT-5	**162.6**	**178.5**	**184.4**	**197.1**	**196.6**	**192.1**	**199.2**	**193.4**
BLT-6	**35.8**	**76.2**	**73.5**	**41.0**	**37.4**	**37.0**	**60.9**	**104.8**
BLT-7	**68.1**	**89.7**	**74.4**	**104.7**	**69.6**	**78.4**	**94.6**	**94.5**
BLT-8	**176.9**	**181.6**	**145.9**	**220.9**	**99.3**	**174.8**	**170.2**	--
BLT-9	**84.8**	--	--	**133.7**	**66.9**	--	--	--
BLT-10	16.6	**36.6**	**52.1**	17.1	16.8	12.7	**20.2**	**27.5**
BLT-11	**34.3**	**26.9**	**28.8**	**31.9**	**37.7**	**30.7**	**31.2**	**27.5**
BLT-12	**181.4**	--	**218.5**	--	**137.4**	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

Appendix D, Table 25

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Sodium (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/2/2021**	**7/26/2021**	**10/13/2021**
BLT-1	12.1	6.5	13.4	14.9	11.6	14.5
BLT-2	--	**--**	--	**82.8**	**76.7**	**120**
BLT-3	--	--	--	**161.6**	**139.8**	**173**
BLT-4	**82.4**	**78.9**	**67.9**	**26.6**	**76.5**	**79.9**
BLT-5	**196.2**	**186.4**	**189.5**	< 1	**162.5**	**199**
BLT-6	**44.9**	**89.0**	**82.4**	**45.6**	**44.5**	**45.4**
BLT-7	**90.1**	**88.8**	**79.6**	**81.8**	**76.7**	**89.0**
BLT-8	**165.3**	**165.3**	**137.6**	**168.8**	**161.2**	**155**
BLT-9	--	--	--	--	**109.6**	**103**
BLT-10	13.3	**22.7**	**30.4**	8.8	11.8	15.7
BLT-11	**34.8**	**29.4**	**28.4**	**22.3**	**23.3**	**28.3**
BLT-12	--	--	--	**209.3**	**146.9**	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or broken sample vessel.
3. Cells that are **BOLD** / shaded indicate that the result exceeds the NYSDOH GV.

The NYSDOH GV is 20 mg/L (for people on severely restricted sodium diets).

LaBella Associates, DPC

April 2022

Appendix D, Table 26

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Spring		Summer		Fall		Spring		Summer	
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	3/30/2004	3/31/2004	6/22/2004	6/22/2004
BLT-1	0.010	*	0.070	--	0.510	--	0.280	0.300	--	0.280
BLT-2	< 0.01	*	0.060	--	0.530	0.330	--	--	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	< 0.01	0.020	< 0.01	--	0.390	0.240	<0.1	0.300	0.560	0.280
BLT-5	< 0.01	*	0.330	--	**2.700**	0.060	--	--	--	--
BLT-6	0.020	0.020	0.010	0.060	1.100	0.190	0.560	0.300	0.280	0.560
BLT-7	0.020	*	0.170	< 0.01	0.480	0.150	0.560	0.300	--	--
BLT-8	< 0.01	*	0.070	< 0.01	**2.700**	0.100	0.560	0.300	--	--
BLT-9	0.040	*	--	--	--	--	--	--	--	--
BLT-10	0.040	*	0.320	--	1.500	0.200	--	--	--	--
BLT-11	0.050	*	0.040	--	0.240	0.480	--	--	0.280	0.280
BLT-12	< 0.01	*	0.130	--	0.880	0.120	--	--	0.280	0.560

NOTES:

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2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)								
	Fall		Spring		Summer	Spring		Summer	
	9/7/2004	9/8/2004	5/12/2005	5/31/2005	7/21/2005	3/31/2006	4/3/2006	7/26/2006	9/15/2006
BLT-1	--	0.280	0.290	*	*	<0.2	<0.2	<0.2	0.280
BLT-2	--	--	0.290	*	*	<0.2	<0.2	*	*
BLT-3	--	--	--	--	--	--	--	--	--
BLT-4	<0.1	0.560	0.290	*	<0.1	<0.2	<0.2	<0.2	0.280
BLT-5	--	--	*	*	*	*	*	<0.2	<0.2
BLT-6	0.280	0.280	*	*	*	<0.2	<0.2	<0.2	<0.2
BLT-7	--	--	*	*	*	<0.2	<0.2	<0.2	<0.2
BLT-8	--	--	*	*	*	<0.2	<0.2	<0.2	<0.2
BLT-9	--	--	--	--	--	--	--	--	--
BLT-10	0.280	0.560	*	*	*	0.280	<0.2	<0.2	<0.2
BLT-11	0.280	<0.1	*	*	*	<0.2	<0.2	<0.2	<0.2
BLT-12	--	--	*	*	*	<0.2	<0.2	<0.2	<0.2

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Fall		Spring		Summer		Fall		Spring	
			Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	10/1/2006	**10/10/2006**	**6/3/2008**	**6/4/2008**	**8/11/2008**	**8/13/2008**	**10/6/2008**	**10/28/2008**	**3/24/2009**	**4/15/2009**
BLT-1	*	*	0.034	0.010	0.013	0.012	0.013	*	0.006	0.009
BLT-2	*	*	0.105	0.082	0.051	0.285	0.057	*	0.034	0.030
BLT-3	--	--	0.014	--	--	--	--	0.006	--	0.012
BLT-4	<0.2	<0.2	0.013	0.009	0.021	0.005	0.007	*	0.004	0.009
BLT-5	<0.2	<0.2	0.008	0.009	0.024	*	0.026	*	0.009	0.010
BLT-6	<0.2	0.280	0.011	0.025	0.017	0.011	0.010	*	0.012	0.010
BLT-7	<0.2	<0.2	0.011	0.037	0.009	0.009	0.009	*	0.013	0.009
BLT-8	<0.2	<0.2	0.009	0.008	0.032	0.004	0.010	*	0.016	0.007
BLT-9	--	--	0.004	0.026	0.020	0.205	0.014	*	0.012	0.005
BLT-10	<0.2	<0.2	0.006	0.081	0.011	0.023	0.011	*	0.009	0.007
BLT-11	<0.2	0.280	0.057	0.029	0.007	0.018	0.009	*	0.011	0.008
BLT-12	<0.2	<0.2	0.022	0.017	0.024	--	0.062	*	0.010	0.009

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Summer		Fall		Spring		Summer		Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/30/2009	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**
BLT-1	0.021	0.006	<0.011	0.103	<0.05	<0.05	--	--	--	<0.05
BLT-2	0.026	0.034	0.124	0.033	<0.05	<0.05	--	--	--	<0.05
BLT-3	0.011	0.018	--	0.067	--	<0.05	--	--	--	<0.05
BLT-4	0.012	0.006	<0.011	<0.011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-5	0.023	0.015	<0.011	<0.011	<0.05	<0.05	<0.05	0.053	<0.05	<0.05
BLT-6	0.009	0.012	<0.011	<0.011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-7	0.014	0.013	<0.011	0.039	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-8	0.010	0.008	<0.011	<0.011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-9	0.019	0.005	--	0.025	<0.05	<0.05	--	--	<0.05	<0.05
BLT-10	0.014	0.010	<0.011	<0.011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-11	0.008	0.008	<0.011	<0.011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BLT-12	0.013	0.011	--	<0.011	--	<0.05	--	<0.05	--	<0.05

NOTES:

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2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Spring		Summer	Fall		Spring	Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*
	6/29/2011	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	0.013	0.060	0.048	0.014	0.039	0.016	< 0.010	0.027	< 0.010	< 0.010
BLT-2	0.030	--	0.041	0.012	0.049	0.060	0.289	0.295	0.022	< 0.010
BLT-3	--	--	--	0.013	0.050	0.014	--	--	0.012	--
BLT-4	0.017	0.034	0.021	0.013	0.047	0.016	0.011	0.041	0.016	< 0.010
BLT-5	0.016	0.018	0.019	0.011	0.040	< 0.010	< 0.010	0.033	0.010	< 0.010
BLT-6	0.023	0.029	0.025	0.013	0.038	0.023	< 0.010	0.037	0.013	< 0.010
BLT-7	0.005	0.016	0.023	0.012	0.436	< 0.010	< 0.010	0.031	0.012	0.015
BLT-8	0.081	0.026	0.025	0.012	0.056	0.010	< 0.010	0.026	0.034	0.013
BLT-9	0.012	0.071	0.020	0.012	0.036	< 0.010	< 0.010	0.078	0.014	--
BLT-10	0.014	0.045	0.023	0.014	0.037	0.011	< 0.010	0.025	0.027	< 0.010
BLT-11	0.010	0.012	0.021	0.011	0.037	< 0.010	< 0.010	0.037	0.014	< 0.010
BLT-12	0.012	--	0.033	0.023	0.050	< 0.010	0.080	--	0.032	< 0.010

NOTES:

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4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	< 0.011	0.018	0.037	--	0.024	< 0.011	0.023	0.089	< 0.006	< 0.007
BLT-2	< 0.011	0.054	0.136	--	0.042	< 0.011	0.075	0.022	0.014	0.019
BLT-3	< 0.011	0.015	--	--	--	< 0.011	0.015	--	--	--
BLT-4	< 0.011	0.037	0.026	< 0.011	0.014	< 0.011	0.014	0.019	< 0.006	0.023
BLT-5	< 0.011	0.018	0.053	< 0.011	0.017	< 0.011	< 0.006	0.025	< 0.006	< 0.007
BLT-6	< 0.011	0.020	0.026	< 0.011	0.014	< 0.011	0.015	0.115	< 0.006	< 0.007
BLT-7	< 0.011	0.016	0.027	< 0.011	0.020	< 0.011	0.013	0.020	< 0.006	< 0.007
BLT-8	< 0.011	0.018	0.090	< 0.011	< 0.011	< 0.011	< 0.006	0.020	< 0.006	< 0.007
BLT-9	< 0.011	0.013	0.028	< 0.011	0.025	< 0.011	< 0.006	--	< 0.006	< 0.007
BLT-10	0.015	0.015	0.033	< 0.011	0.014	< 0.011	0.130	0.021	< 0.006	< 0.007
BLT-11	< 0.011	0.018	0.028	< 0.011	0.013	< 0.011	0.120	0.022	0.029	< 0.007
BLT-12	< 0.011	0.022	0.159	--	0.092	< 0.011	0.017	0.014	< 0.006	< 0.007

NOTES:

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4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	0.018	0.039	0.666	--	--	--	0.035	--	--	0.018
BLT-2	0.156	0.219	0.152	--	--	--	--	--	--	0.022
BLT-3	0.044	--	--	--	--	--	--	--	--	--
BLT-4	0.016	--	0.046	--	0.042	0.039	0.033	< 0.075	--	0.018
BLT-5	0.015	0.027	0.034	0.048	0.034	0.040	0.149	0.023	0.027	0.017
BLT-6	0.017	0.041	0.041	0.197	0.042	0.041	0.037	< 0.075	0.029	0.021
BLT-7	0.065	0.030	0.038	0.034	0.041	0.043	0.038	< 0.075	0.029	0.024
BLT-8	0.016	0.027	0.042	--	0.039	0.042	0.040	< 0.075	--	0.021
BLT-9	0.025	0.017	0.032	--	--	--	0.041	--	--	0.019
BLT-10	0.017	0.033	0.035	0.051	0.035	0.044	0.041	< 0.075	--	0.025
BLT-11	0.027	0.028	0.211	0.049	0.037	0.043	0.044	< 0.075	0.020	0.018
BLT-12	0.033	--	--	--	--	0.045	0.053	--	--	0.033

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)							
	Spring	Summer	Fall	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	0.032	--	0.010	0.028	<0.005	0.0551	<0.010	--
BLT-2	0.038	0.064	0.109	0.076	0.054	0.119	0.089	--
BLT-3	<0.007	--	--	--	--	--	--	--
BLT-4	0.035	0.019	0.008	0.014	0.011	0.0428	<0.010	0.219
BLT-5	0.036	0.015	<.0025	0.018	0.015	0.028	<0.010	0.020
BLT-6	0.032	0.029	0.120	0.029	0.016	0.0236	<0.010	0.039
BLT-7	<0.007	0.019	0.014	0.056	<0.005	0.038	<0.010	0.055
BLT-8	0.016	0.039	0.018	<0.010	<0.005	0.0308	0.047	--
BLT-9	<0.007	--	--	0.015	0.017	--	--	--
BLT-10	<0.007	0.018	0.018	0.149	<0.050	0.0196	<0.010	0.025
BLT-11	<0.007	0.019	0.041	0.033	0.014	0.0251	0.021	0.013
BLT-12	<0.007	--	0.015	--	0.023	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard.

For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

Appendix D, Table 26

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Ammonia (mgN/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/22/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	0.0488	0.353	< 0.010	0.0457	< 0.015	0.0376
BLT-2	--	--	--	0.0584	0.0378	0.0604
BLT-3	--	--	--	0.0328	< 0.015	0.1340
BLT-4	0.0319	< 0.010	0.0151	0.0489	< 0.015	0.0722
BLT-5	0.0152	< 0.010	< 0.010	0.0368	< 0.015	0.0650
BLT-6	0.0109	< 0.010	< 0.010	0.0339	< 0.015	0.0203
BLT-7	0.0191	< 0.010	< 0.010	0.0359	< 0.015	0.0426
BLT-8	0.0233	< 0.010	0.0322	0.0369	< 0.015	0.0412
BLT-9	--	--	--	--	< 0.015	0.0600
BLT-10	0.0246	< 0.010	< 0.010	0.0381	< 0.015	0.0441
BLT-11	0.0194	0.0195	< 0.010	0.0346	< 0.015	0.0503
BLT-12	--	--	--	0.0357	0.1366	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or broken sample vessel.
3. A sample result preceded by the symbol '<' indicates that Ammonia was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds NYSDEC Part 703. For NYSDEC Class A surface waters, Ammonia must be below 2.0 mg/L.

Appendix D, Table 27

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)									
	Spring		Summer		Fall		Spring		Summer	
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	3/30/2004	3/31/2004	6/22/2004	6/22/2004
BLT-1	<0.01	*	<0.01	--	2.20	--	*	*	--	<0.5
BLT-2	<0.01	*	<0.01	--	0.30	0.42	--	--	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	<0.01	<0.01	<0.01	--	0.30	0.01	*	*	<0.5	<0.5
BLT-5	<0.01	*	<0.01	--	0.20	0.40	--	--	--	--
BLT-6	<0.01	<0.01	<0.01	0.45	0.80	0.70	1.37	1.75	0.80	0.90
BLT-7	1.10	*	<0.01	0.74	0.30	0.60	1.62	1.51	--	--
BLT-8	<0.01	*	<0.01	1.70	1.90	2.20	1.06	1.09	--	--
BLT-9	<0.01	*	--	--	--	--	--	--	--	--
BLT-10	<0.01	*	<0.01	--	0.80	0.40	--	--	--	--
BLT-11	<0.01	*	<0.01	--	0.20	0.30	--	--	0.70	0.60
BLT-12	3.80	*	<0.01	--	2.00	2.30	--	--	3.50	3.00

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)										
	Fall		Spring		Summer	Spring		Summer		Fall	
	9/7/2004	9/8/2004	5/12/2005	5/31/2005	7/21/2005	3/31/2006	4/3/2006	7/26/2006	9/15/2006	10/1/2006	10/10/2006
BLT-1	--	<1.0	*	<0.5	*	<0.5	<0.5	<0.5	<0.5	*	*
BLT-2	--	--	*	*	*	*	1.13	*	*	*	*
BLT-3	--	--	--	--	--	--	--	--	--	--	--
BLT-4	<1.0	<1.0	*	<0.5	<0.5	<0.5	0.91	<0.5	<0.5	*	*
BLT-5	--	--	*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.00	*
BLT-6	<1.0	1.50	0.56	0.60	0.68	0.71	1.08	0.51	0.55	0.93	0.50
BLT-7	--	--	*	<0.5	0.82	0.90	1.25	0.69	0.51	0.64	0.70
BLT-8	--	--	*	0.60	0.54	<0.5	1.09	0.85	0.71	0.55	0.63
BLT-9	--	--	--	--	--	--	--	--	--	--	--
BLT-10	<1.0	<1.0	*	<0.5	0.56	*	0.66	<0.5	<0.5	*	*
BLT-11	<1.0	<1.0	*	0.50	<0.5	0.51	0.74	0.50	0.52	0.52	*
BLT-12	--	--	3.06	2.80	2.75	2.69	2.56	2.62	2.40	2.24	2.53

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)									
	Spring		Fall		Spring		Summer		Fall	
					Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*
	5/14/2007	**5/16/2007**	**9/10/2007**	**9/11/2007**	**6/3/2008**	**6/4/2008**	**8/11/2008**	**8/13/2008**	**10/7/2008**	**10/28/2008**
BLT-1	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
BLT-2	*	*	--	1.40	<0.5	<0.5	1.57	<0.1	<0.1	1.04
BLT-3	--	--	--	--	<0.5	<0.5	--	<0.1	<0.1	1.35
BLT-4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	0.38
BLT-5	<0.5	<0.5	--	0.50	<0.5	<0.5	<0.5	<0.1	<0.1	0.40
BLT-6	0.50	0.60	<0.5	1.10	0.53	<0.5	1.24	<0.1	0.37	1.05
BLT-7	0.70	0.50	0.60	0.70	0.68	0.53	1.11	<0.1	0.73	1.07
BLT-8	0.90	0.70	--	1.30	<0.5	<0.5	1.33	<0.1	0.80	0.65
BLT-9	--	--	--	--	<0.5	<0.5	<0.5	<0.1	0.14	0.13
BLT-10	<0.5	<0.5	1.20	1.90	<0.5	<0.5	1.35	<0.1	1.80	0.66
BLT-11	0.50	0.50	<.5	<0.5	0.50	<0.5	0.44	<0.1	0.31	0.39
BLT-12	2.60	2.40	--	2.50	<0.5	1.32	1.59	<0.1	0.13	0.93

NOTES:

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2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)									
	Spring		Summer		Fall		Spring		Summer	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	3/24/2009	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**
BLT-1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	0.205	<0.012	--	--
BLT-2	0.56	<0.5	<0.5	0.5	<0.5	<0.5	0.232	0.215	--	--
BLT-3	--	0.51	--	<0.5	--	<0.5	--	<0.012	--	--
BLT-4	0.44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.012	<0.012	<0.012	<0.012
BLT-5	0.18	<0.5	<0.5	<0.5	<0.5	<0.5	0.155	0.211	0.199	0.161
BLT-6	0.94	<0.5	0.51	0.50	<0.5	<0.5	0.362	0.295	0.463	0.353
BLT-7	1.12	<0.5	0.71	0.62	0.74	1.05	0.418	<0.012	0.483	0.390
BLT-8	--	<0.5	<0.5	<0.5	0.74	0.54	0.287	<0.012	1.06	1.09
BLT-9	0.20	<0.5	<0.5	<0.5	--	<0.5	<0.012	<0.012	--	--
BLT-10	0.43	<0.5	<0.5	<0.5	1.48	1.16	0.516	0.135	0.956	1.15
BLT-11	0.45	<0.5	<0.5	<0.5	<0.5	<0.5	0.238	<0.012	0.174	0.124
BLT-12	2.97	<0.5	2.29	1.38	--	1.86	--	0.964	--	0.115

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)										
	Fall		Spring		Summer	Fall		Spring	Summer		Fall
	Dry	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	10/14/2010	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**
BLT-1	--	<0.012	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
BLT-2	--	0.561	<0.5	--	<0.5	<0.5	1.15	< 0.5	< 0.5	< 0.5	< 0.5
BLT-3	--	0.867	--	--	--	<0.5	0.75	< 0.5	--	--	< 0.5
BLT-4	<0.012	0.354	<0.5	<0.5	<0.5	<0.5	0.63	< 0.5	< 0.5	< 0.5	< 0.5
BLT-5	0.123	0.231	1.07	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
BLT-6	0.351	0.706	<0.5	<0.5	0.50	0.70	1.20	0.71	0.71	< 0.5	< 0.5
BLT-7	0.414	<0.012	0.83	0.51	0.72	0.80	1.19	0.92	0.81	0.67	0.55
BLT-8	0.487	0.582	0.74	0.51	1.40	0.70	1.07	< 0.5	0.95	0.68	0.78
BLT-9	0.185	<0.012	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
BLT-10	2.09	0.587	<0.5	0.60	0.50	<0.5	<0.5	< 0.5	5.29	1.00	0.68
BLT-11	0.0550	0.197	0.53	<0.5	<0.5	0.70	0.86	< 0.5	0.71	<0.7	< 0.5
BLT-12	--	1.82	1.45	--	1.20	3.80	2.97	3.47	1.00	--	1.11

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)									
	Fall	Spring		Summer		Fall	Spring		Summer	Fall
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	12/11/2012	**5/23/2013**	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**
BLT-1	3.04	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	0.5	< 0.5
BLT-2	< 0.5	0.6	< 0.5	< 0.5	--	1.53	< 0.5	< 0.5	0.6	0.73
BLT-3	--	0.5	< 0.5	--	--	--	< 0.5	< 0.5	--	--
BLT-4	0.58	0.5	< 0.5	< 0.5	< 0.5	0.82	< 0.5	< 0.5	0.5	0.72
BLT-5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.52	< 0.5	0.53	0.5	0.87
BLT-6	0.61	0.9	0.9	0.74	0.60	0.76	0.97	0.72	1.1	< 0.5
BLT-7	1.02	0.6	0.9	0.66	0.54	1.03	0.92	0.65	1.0	1.03
BLT-8	0.98	0.6	0.5	0.96	1.08	2.18	0.75	0.55	0.8	1.34
BLT-9	--	< 0.5	< 0.5	< 0.5	< 0.5	0.85	< 0.5	< 0.5	--	< 0.5
BLT-10	0.76	0.6	< 0.5	0.74	0.74	1.38	< 0.5	< 0.5	0.9	0.82
BLT-11	0.70	< 0.5	0.8	0.68	0.62	1.07	0.63	1.02	0.0	< 0.5
BLT-12	< 0.5	1.8	4.2	1.67	--	2.43	4.18	3.56	3.2	2.70

NOTES:

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2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)										
	Fall	Spring		Summer		Fall		Summer		Spring	
	Dry	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	12/18/2014	**4/28/2015**	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**6/17/2019**	**10/31/2016**
BLT-1	< 0.5	< 0.5	0.51	0	--	--	--	< 0.5	--	8.08	< 0.5
BLT-2	0.5	0.62	0.77	0.68	--	--	--	--	--	7.72	< 0.5
BLT-3	--	0.67	--	--	--	--	--	--	--	--	--
BLT-4	0.92	0.75	--	0.65	--	*	0	< 0.5	< 0.5	7.78	< 0.5
BLT-5	0.77	1.76	1.33	0.69	1.06	*	0.84	< 0.5	< 0.5	7.18	< 0.5
BLT-6	1.30	1.20	0.84	3.51	0.88	*	0.86	< 0.5	< 0.5	7.94	< 0.5
BLT-7	1.20	1.00	0.82	1.50	0.85	*	0.88	< 0.5	< 0.5	7.90	< 0.5
BLT-8	0.83	1.25	1.19	< 0.5	--	*	1.03	1.08	< 0.5	7.37	1.48
BLT-9	< 0.5	< 0.5	0.98	< 0.5	--	--	--	< 0.5	--	--	< 0.5
BLT-10	< 0.5	0.63	0.66	8.53	1.00	*	1.11	0.62	0.66	8.21	0.46
BLT-11	0.61	0.81	0.65	**12.45**	0.67	*	1.06	< 0.5	< 0.5	8.40	< 0.5
BLT-12	4.42	2.70	--	--	--	--	0.80	< 0.5	--	--	< 0.5

NOTES:

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)							
	Fall	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	< 0.5	--	< 0.5	<0.5	<0.5	<0.5	<0.5	--
BLT-2	< 0.5	< 0.5	< 0.5	<0.5	<0.5	0.54	<0.5	--
BLT-3	< 0.5	--	--	--	--	--	--	--
BLT-4	< 0.5	< 0.5	< 0.5	0.62	0.61	0.63	<0.5	<0.5
BLT-5	< 0.5	< 0.5	< 0.5	0.53	<0.5	0.54	<0.5	<0.5
BLT-6	0.51	0.53	< 0.5	0.77	0.57	0.79	<0.5	<0.5
BLT-7	0.55	< 0.5	0.75	0.68	0.57	0.66	<0.5	<0.5
BLT-8	0.49	0.59	1.01	0.66	0.53	0.68	1.06	--
BLT-9	< 0.5	--	--	<0.5	<0.5	--	--	--
BLT-10	< 0.5	0.78	0.98	<0.5	<0.5	0.52	<0.5	<0.5
BLT-11	< 0.5	< 0.5	< 0.5	0.57	<0.5	0.70	<0.5	<0.5
BLT-12	1.3	--	1.70	--	3.2	--	--	--

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Nitrate (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	0.54	< 0.5	< 0.5	< 0.5	< 0.5	< 0.05
BLT-2	--	--	--	< 0.5	< 0.5	0.0513
BLT-3	--	--	--	< 0.5	< 0.5	< 0.05
BLT-4	0.50	<0.5	<0.5	< 0.5	< 0.5	0.0681
BLT-5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	0.0704
BLT-6	0.98	0.50	<0.5	0.6	0.61	0.733
BLT-7	0.72	<0.5	<0.5	< 0.5	0.54	0.452
BLT-8	0.70	< 0.5	0.50	0.7	1.2	0.869
BLT-9	--	--	--	--	< 0.5	0.0715
BLT-10	0.59	0.60	<0.5	< 0.5	< 0.5	0.242
BLT-11	0.65	<0.5	<0.5	< 0.5	< 0.5	0.161
BLT-12	--	--	--	< 0.5	< 0.5	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or broken sample vessel.
3. A sample result preceded by the symbol '<' indicates that Nitrate was not detected at the noted concentration, which is the laboratory minimum detection limit.
4. Cells that are **BOLD** and shaded indicate that the result exceeds NYSDEC Part 703. For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)									
	Spring		Summer		Fall		Spring		Fall	
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	5/14/2007	6/4/2007	9/10/2007	9/11/2007
BLT-1	1.00	*	1.00	--	2.30	--	0.30	0.30	--	0.60
BLT-2	0.35	*	0.64	--	2.30	0.74	--	--	--	1.10
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	0.36	< 0.01	*	--	2.40	0.68	0.30	0.30	0.30	<0.2
BLT-5	0.38	*	0.62	--	17.00	0.31	0.30	0.30	--	0.30
BLT-6	0.18	< 0.01	*	0.22	9.30	0.55	0.30	<0.2	<0.2	0.60
BLT-7	2.10	*	1.30	0.18	2.70	0.43	0.30	0.30	0.30	<0.2
BLT-8	0.23	*	0.73	0.36	2.70	0.49	0.30	<0.2	--	0.60
BLT-9	0.14	*	--	--	--	--	--	--	--	--
BLT-10	0.35	*	0.75	--	12.00	0.39	0.30	<0.2	<0.2	<0.2
BLT-11	0.36	*	*	--	2.30	1.10	0.30	<0.2	0.60	0.30
BLT-12	0.20	*	2.20	--	6.20	0.80	0.30	<0.2	--	<0.2

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)									
	Spring		Summer		Fall		Spring		Summer	
	Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/3/2008	**6/4/2008**	**8/11/2008**	**8/13/2008**	**10/7/2008**	**10/28/2008**	**3/24/2009**	**4/15/2009**	**6/30/2009**	**7/21/2009**
BLT-1	0.28	0.70	1.40	0.84	0.84	<0.2	<0.2	<0.2	<0.2	<0.2
BLT-2	0.28	0.70	1.96	0.56	<0.1	0.63	0.44	<0.2	0.58	0.76
BLT-3	0.28	1.26	--	--	--	1.16	--	0.28	--	0.46
BLT-4	0.28	0.84	0.84	0.56	0.38	0.62	0.47	<0.2	0.20	1.04
BLT-5	0.84	1.68	0.28	0.28	1.85	0.23	0.81	0.20	<0.2	1.10
BLT-6	0.28	0.28	0.84	0.56	0.58	0.59	<0.2	<0.2	0.26	0.77
BLT-7	0.70	0.28	0.84	0.56	0.37	0.74	0.31	<0.2	0.33	0.52
BLT-8	2.10	0.84	0.84	0.84	0.50	1.43	--	<0.2	0.20	<0.2
BLT-9	<0.28	0.84	0.28	0.84	0.65	0.50	<0.2	<0.2	<0.2	<0.2
BLT-10	3.78	0.28	0.56	0.56	<0.1	0.38	<0.2	<0.2	0.39	<0.2
BLT-11	0.42	0.28	0.84	0.84	0.30	0.65	<0.2	<0.2	0.20	0.92
BLT-12	2.10	1.96	0.56	--	0.92	0.61	<0.2	<0.2	0.33	0.20

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit.

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Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen - TKN (mg/L)									
	Fall		Spring		Summer		Fall		Spring	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	9/22/2009	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**
BLT-1	<0.2	0.67	0.236	<0.100	--	--	--	<0.100	0.25	0.61
BLT-2	0.72	0.25	0.174	<0.100	--	--	--	<0.100	<0.2	--
BLT-3	--	1.01	--	<0.100	--	--	--	0.862	--	--
BLT-4	0.24	<0.2	0.618	<0.100	0.314	0.392	0.292	0.606	0.33	<0.2
BLT-5	1.31	0.80	0.232	<0.100	0.234	2.32	0.726	0.638	<0.2	0.23
BLT-6	0.35	0.21	0.155	<0.100	0.276	0.300	0.200	0.710	0.22	<0.2
BLT-7	0.34	0.39	0.182	<0.100	0.274	0.460	0.338	0.636	0.38	<0.2
BLT-8	0.23	0.25	0.176	<0.100	0.316	0.440	0.274	0.558	0.24	<0.2
BLT-9	--	2.14	0.200	<0.100	--	--	2.40	0.492	0.70	0.54
BLT-10	0.25	0.25	0.204	0.326	0.560	0.700	0.504	0.438	0.49	<0.2
BLT-11	0.34	<0.2	0.184	<0.100	0.110	0.200	0.288	0.586	<0.2	<0.2
BLT-12	--	0.32	--	0.103	--	0.780	--	0.504	0.68	--

NOTES:

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2. * = Sample was collected but not analyzed, due to lab error or sample vessel breakage during shipping.
3. A sample result preceded by the symbol '<' indicates that TKN was not detected at the noted concentration, which is the laboratory minimum detection limit.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen (mg/L)								
	Summer	Fall		Spring	Summer		Fall		Spring
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Wet*
	8/22/2011	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**	**5/23/2013**
BLT-1	2.30	0.32	0.76	0.94	0.29	0.32	0.61	0.44	1.41
BLT-2	0.50	0.44	0.51	0.32	< 0.2	1.78	1.12	0.24	0.99
BLT-3	--	0.42	0.54	0.30	--	--	0.87	--	0.84
BLT-4	<0.2	0.28	0.61	0.41	0.22	0.42	0.58	0.20	1.14
BLT-5	<0.2	<0.2	0.49	0.36	0.28	< 0.2	0.42	< 0.2	0.51
BLT-6	<0.2	1.04	0.50	0.43	< 0.2	< 0.2	0.48	< 0.2	1.04
BLT-7	<0.2	0.20	0.42	0.35	< 0.2	0.58	0.42	0.37	0.56
BLT-8	<0.2	0.47	0.53	0.34	0.23	0.22	0.44	0.38	1.54
BLT-9	<0.2	<0.2	0.26	0.34	< 0.2	0.67	0.61	--	0.48
BLT-10	0.30	<0.2	0.39	< 0.2	0.42	0.20	0.92	< 0.2	1.12
BLT-11	0.31	0.49	0.47	0.47	0.71	0.29	0.22	0.45	0.87
BLT-12	0.23	0.71	0.24	0.65	0.40	--	0.41	< 0.2	1.61

NOTES:

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen (mg/L)								
	Spring	Summer		Fall	Spring		Summer	Fall	
	Dry	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	6/6/2013	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	0.41	1.54	--	0.37	0.84	0.99	0.66	0.98	0.94
BLT-2	0.55	1.13	--	0.45	<0.8	1.030	0.71	1.16	0.99
BLT-3	0.46	--	--	--	0.69	0.950	--	--	--
BLT-4	0.99	0.51	0.48	0.35	0.80	0.82	0.70	1.00	0.92
BLT-5	0.39	< 0.2	0.90	< 0.2	0.80	0.66	0.60	0.80	0.70
BLT-6	0.48	0.40	0.37	< 0.2	0.82	0.72	0.60	1.00	0.90
BLT-7	0.63	0.38	< 0.2	0.42	0.74	0.73	0.58	1.30	0.76
BLT-8	0.54	0.70	0.24	0.36	0.82	0.69	0.82	1.09	0.98
BLT-9	0.43	0.82	0.87	0.48	0.72	0.76	--	0.98	1.68
BLT-10	0.32	1.01	0.21	0.22	0.66	0.79	0.62	0.70	1.00
BLT-11	0.45	0.36	< 0.2	< 0.2	0.66	1.00	0.75	0.62	0.78
BLT-12	0.44	2.27	--	0.24	0.58	0.95	0.92	0.74	0.82

NOTES:

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Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen (mg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	1.17	1.05	1.25	--	--	--	1.63	--	--	0.38
BLT-2	0.99	1.98	1.06	--	--	--	--	--	--	1.38
BLT-3	2.61	--	--	--	--	--	--	--	--	--
BLT-4	0.93	--	1.03	--	2.45	0.75	1.39	1.25	--	0.28
BLT-5	1.02	1.02	0.90	0.81	1.67	0.76	1.12	1.07	1.17	< 0.1
BLT-6	0.84	1.21	1.13	1.33	1.70	0.79	1.32	1.10	1.17	< 0.1
BLT-7	1.00	1.09	0.85	0.81	0.50	0.82	1.26	1.11	1.39	< 0.1
BLT-8	0.76	1.10	0.93	--	1.61	0.89	1.51	1.27	--	0.41
BLT-9	0.99	0.86	0.88	--	--	--	1.21	--	--	< 0.1
BLT-10	0.98	1.04	0.92	1.56	1.77	0.95	1.39	0.86	--	< 0.1
BLT-11	0.95	1.22	0.98	2.36	1.39	1.46	1.78	1.20	1.04	< 0.1
BLT-12	0.86	--	--	--	--	1.32	1.32	--	--	0.40

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	1.33	--	1.67	1.36	1.83	<1.0	<1.0	--
BLT-2	1.19	1.45	1.77	1.32	1.79	<1.0	<1.0	--
BLT-3	1.78	--	--	--	--	--	--	--
BLT-4	2.24	1.67	1.79	1.49	1.43	<1.0	<1.0	1.57
BLT-5	1.24	1.64	1.71	1.13	1.62	<1.0	<1.0	<0.6
BLT-6	1.27	1.58	1.74	1.22	1.04	<1.0	<1.0	<0.6
BLT-7	1.38	1.68	1.68	1.14	1.05	<1.0	<1.0	<0.6
BLT-8	1.55	1.53	1.74	1.21	1.35	<1.0	<1.0	--
BLT-9	1.21	--	--	1.06	3.30	--	--	--
BLT-10	1.60	1.68	1.70	1.28	1.12	<0.6	<1.0	0.60
BLT-11	1.50	1.55	1.62	1.19	1.14	0.65	<1.0	<0.6
BLT-12	1.97	--	1.76	--	2.06	--	--	--

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Kjeldahl Nitrogen (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/3/2021	7/26/2021	10/13/2021
BLT-1	0.64	0.84	0.68	0.78	< 0.6	0.670
BLT-2	--	--	--	0.89	0.85	0.430
BLT-3	--	--	--	1.01	< 0.6	1.35
BLT-4	< 0.6	< 0.6	< 0.6	0.62	< 0.6	0.520
BLT-5	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.400
BLT-6	0.60	0.70	< 0.6	< 0.6	< 0.6	0.400
BLT-7	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.400
BLT-8	0.62	< 0.6	--	< 0.6	< 0.6	0.450
BLT-9	--	--	--	--	< 0.6	< 0.400
BLT-10	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.400
BLT-11	< 0.6	< 0.6	< 0.6	0.60	< 0.6	< 0.400
BLT-12	--	--	--	0.74	1.62	--

NOTES:

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Spring		Summer		Fall		Spring		Summer	
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	3/30/2004	3/31/2004	6/22/2004	6/22/2004
BLT-1	12.81	*	**146.00**	--	**399.89**	--	**21.92**	**22.26**	--	**69.00**
BLT-2	13.78	*	*	--	**1792.90**	**45.58**	--	--	--	--
BLT-3	--	--	--	--	--	--	--	--	-	--
BLT-4	**26.31**	*	**56.59**	--	**648.99**	**36.73**	14.77	**46.44**	**25.00**	**80.00**
BLT-5	**33.06**	*	**2629.43**	--	**8123.90**	**42.96**	--	--	--	--
BLT-6	12.17	*	**21.68**	**23.75**	**3138.42**	**23.63**	7.60	10.33	19.00	**98.00**
BLT-7	11.21	*	**865.40**	15.70	**3849.80**	**24.27**	9.65	**24.24**	--	--
BLT-8	10.56	*	**366.12**	15.75	**6337.60**	19.36	**21.92**	12.65	--	--
BLT-9	4.46	*	--	--	--	--	--	--	--	--
BLT-10	**41.37**	*	**931.93**	--	**3797.28**	**49.17**	--	--	--	--
BLT-11	**25.34**	*	**38.20**	--	**413.00**	**183.84**	--	--	**57.00**	**199.00**
BLT-12	**28.24**	*	**2612.86**	--	**4403.60**	**53.45**	--	--	**22.00**	**146.00**

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)										
	Spring		Summer		Spring		Summer	Fall		Spring	
	5/12/2005	5/31/2005	6/16/2005	7/21/2005	3/31/2006	4/3/2006	7/26/2006	9/15/2006	10/1/2006	5/14/2007	5/16/2007
BLT-1	**27.80**	18.90	--	--	9.30	**38.40**	**25.10**	17.30	*	**25.80**	18.70
BLT-2	15.90	*	*	*	**49.20**	**270.70**	*	*	*	--	--
BLT-3	--	**23.50**	**26.40**	**24.50**	12.20	**339.50**	--	--	--	--	--
BLT-4	**20.80**	**23.50**	**26.40**	**24.50**	12.20	**339.50**	**24.50**	17.00	11.00	**25.20**	18.40
BLT-5	18.90	13.60	19.80	16.90	ND	ND	14.80	**32.30**	*	15.50	**33.70**
BLT-6	13.30	17.50	17.50	**21.20**	12.90	**245.60**	12.30	13.20	7.50	13.00	14.60
BLT-7	7.60	8.30	10.30	10.00	5.20	**131.40**	5.10	9.50	2.90	5.80	10.90
BLT-8	5.30	18.50	8.00	16.50	4.60	**97.00**	14.20	10.10	9.20	14.90	11.50
BLT-9	--	--	--	--	--	--	--	--	--	--	--
BLT-10	**50.50**	**33.00**	**21.80**	**27.80**	**23.40**	**148.60**	19.20	19.50	11.30	19.90	**20.90**
BLT-11	**24.80**	**25.80**	11.90	**21.80**	14.40	**90.70**	13.90	12.90	10.70	14.60	14.30
BLT-12	17.50	16.50	16.90	**22.50**	17.80	**122.00**	15.40	**22.30**	12.60	16.10	**23.70**

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Fall		Spring		Summer		Fall		Spring	
			Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*
	9/10/2007	9/11/2007	6/3/2008	6/4/2008	8/11/2008	8/13/2008	10/6/2008	10/28/2008	3/24/2009	4/15/2009
BLT-1	--	**53.70**	**21.60**	**28.60**	**38.80**	**85.10**	**73.30**	**63.00**	9.50	--
BLT-2	--	**123.80**	**75.00**	**96.10**	**155.90**	**79.00**	**30.70**	**99.10**	**23.80**	17.80
BLT-3	--	--	**208.60**	**36.90**	--	--	--	**161.80**	--	--
BLT-4	**49.60**	**37.60**	**25.10**	**46.20**	**82.90**	**23.80**	**56.80**	**130.30**	10.50	14.40
BLT-5		**62.50**	**134.80**	**105.60**	**105.60**	**31.60**	**369.70**	**108.20**	**163.10**	**80.30**
BLT-6	**22.40**	**75.50**	19.70	**20.30**	**20.30**	**26.80**	11.60	**92.30**	12.60	11.70
BLT-7	6.60	**20.50**	16.20	10.40	10.40	9.70	5.30	**126.40**	6.50	5.40
BLT-8	--	--	**20.90**	**28.30**	**28.30**	**23.10**	**22.80**	--	9.50	8.10
BLT-9	--	--	**45.50**	**47.80**	**47.80**	**24.20**	11.90	**51.30**	**46.90**	8.70
BLT-10	**23.70**	**23.70**	**27.30**	**20.60**	**20.60**	17.90	12.60	**100.70**	**23.10**	16.40
BLT-11	**82.10**	**82.10**	**32.80**	**27.60**	**27.60**	**23.50**	**26.40**	**140.70**	11.60	--
BLT-12	--	--	**989.30**	**209.20**	**209.20**	--	**77.20**	**187.50**	**28.20**	--

NOTES:

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4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Summer		Fall		Spring		Summer		Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/30/2009	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**
BLT-1	**30.90**	**77.60**	**50.40**	**112.40**	2.120	<0.05	--	--	--	<0.05
BLT-2	**45.50**	**161.30**	**141.30**	**49.10**	0.165	0.520	--	--	--	<0.05
BLT-3	**41.00**	**175.30**	--	**181.20**	--	<0.05	--	--	--	<0.05
BLT-4	8.00	**235.50**	17.20	**34.50**	0.385	<0.05	0.100	4.520	<0.05	<0.05
BLT-5	**105.80**	**199.70**	**197.50**	**268.50**	0.480	0.280	1.770	4.160	<0.05	<0.05
BLT-6	**68.10**	**207.00**	15.70	**35.40**	0.205	<0.05	1.950	8.230	<0.05	<0.05
BLT-7	8.30	**146.20**	15.10	**52.80**	1.980	<0.05	<0.05	10.300	<0.05	<0.05
BLT-8	16.90	**95.70**	19.30	12.40	0.085	1.080	<0.05	6.080	<0.05	<0.05
BLT-9	**31.20**	**125.40**	--	**631.80**	<0.05	<0.05	--	--	0.770	<0.05
BLT-10	**59.10**	**66.40**	**72.40**	**33.80**	4.040	<0.05	1.100	7.360	<0.05	<0.05
BLT-11	**39.50**	**202.90**	**34.40**	15.00	1.290	0.740	0.085	4.620	<0.05	<0.05
BLT-12	**22.90**	**63.60**	--	**36.40**	--	<0.05	--	11.500	--	<0.05

NOTES:

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Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Spring		Summer	Fall		Spring	Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	6/29/2011	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	**28.30**	**81.20**	**133.60**	15.90	**95.10**	**36.20**	**98.90**	**65.50**	**33.60**	14.90
BLT-2	**33.30**	--	**35.50**	19.30	**35.30**	**39.20**	**56.50**	**357.00**	**72.00**	**25.30**
BLT-3	--	--	--	**20.30**	**38.00**	**24.20**	--	--	**137.50**	--
BLT-4	**36.60**	**30.70**	**31.80**	**26.20**	**41.00**	**47.30**	**41.80**	**30.70**	**37.90**	10.50
BLT-5	**22.70**	**54.20**	**36.10**	**24.20**	**55.30**	**65.80**	**123.30**	18.20	**36.60**	**22.20**
BLT-6	**29.90**	**22.00**	**32.10**	14.00	**34.90**	**24.90**	**43.40**	**20.40**	**417.20**	16.30
BLT-7	**34.30**	6.80	**21.00**	19.00	**25.40**	17.10	**35.70**	**109.20**	**29.70**	**90.20**
BLT-8	19.30	10.30	**31.10**	**39.70**	**38.70**	**35.60**	**53.40**	13.70	**22.40**	**510.70**
BLT-9	6.70	**121.40**	16.90	**27.10**	15.20	15.10	**33.10**	**291.30**	**50.90**	--
BLT-10	**56.60**	19.10	**46.00**	16.90	**46.50**	**37.60**	**121.70**	**44.30**	**50.80**	14.30
BLT-11	**29.30**	**37.80**	**918.40**	**39.90**	**27.70**	**99.10**	**102.30**	**37.50**	18.40	**93.90**
BLT-12	**42.20**	--	**45.90**	**52.70**	**49.90**	**33.40**	**89.60**	--	**31.30**	**115.90**

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 29

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	**81.70**	**25.50**	**100.40**	--	**28.60**	17.00	**32.70**	**55.70**	17.10	10.00
BLT-2	**152.80**	**27.10**	**52.30**	--	**38.70**	15.30	**52.20**	**30.30**	**27.10**	18.00
BLT-3	**123.30**	**37.80**	--	--	--	10.00	**52.90**	--	--	--
BLT-4	**214.20**	**29.40**	18.30	17.70	11.90	16.00	**21.20**	**75.70**	17.80	**49.90**
BLT-5	**128.00**	18.10	15.50	**20.30**	**20.40**	16.60	**21.50**	**20.60**	**38.10**	17.00
BLT-6	**191.40**	19.00	**73.00**	18.30	18.10	9.40	16.60	**50.90**	14.20	6.60
BLT-7	**169.80**	19.70	10.40	7.40	**51.00**	8.70	8.70	**23.00**	**23.30**	7.80
BLT-8	**259.90**	10.60	13.90	16.70	9.60	10.70	14.60	16.50	8.90	14.00
BLT-9	**204.30**	**22.30**	**223.10**	**133.90**	**38.80**	8.40	**147.30**	--	**21.70**	**80.00**
BLT-10	**218.70**	**29.10**	**26.60**	15.40	12.90	17.30	**30.00**	19.20	14.50	**26.90**
BLT-11	**209.80**	14.50	18.00	18.30	**38.70**	18.00	**28.40**	7.90	7.90	14.30
BLT-12	**221.60**	18.10	**208.80**	--	**21.00**	**20.60**	19.90	**22.00**	10.50	14.00

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 29

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	13.60	**22.90**	**93.90**	--	--	--	**49.10**	--	--	**31.00**
BLT-2	16.00	**301.40**	**75.70**	--	--	--	--	--	--	**111.50**
BLT-3	**91.60**	--	--	--	--	--	--	--	--	--
BLT-4	18.70	--	**25.20**	--	**53.00**	**29.40**	**32.10**	**44.90**	--	18.70
BLT-5	13.30	**33.80**	**21.00**	19.30	**52.90**	**20.70**	**25.00**	**22.70**	**27.00**	**27.20**
BLT-6	9.60	**46.00**	17.10	**23.10**	19.00	16.60	**23.70**	**22.40**	**21.90**	18.00
BLT-7	6.20	14.50	13.20	**36.10**	16.40	12.40	16.30	**27.80**	8.50	16.70
BLT-8	6.60	9.50	13.80	--	10.00	17.50	**32.70**	14.90	--	**21.80**
BLT-9	9.60	5.80	**79.00**	--	--	--	**327.50**	--	--	16.70
BLT-10	18.70	**22.30**	**21.00**	**31.30**	**25.80**	16.60	**66.10**	**64.20**	--	**47.10**
BLT-11	9.60	**48.50**	**36.10**	**4349.00**	14.80	**66.20**	**131.60**	**32.40**	**27.10**	**25.70**
BLT-12	8.90	--	--	--	--	**120.40**	**52.90**	--	--	**58.00**

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 29

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	**48.5**	--	19.5	**33.6**	**27.2**	**84.7**	**73.0**	--
BLT-2	17.4	**35**	**73.5**	**48.7**	**43.6**	**82.7**	**68.3**	--
BLT-3	8.9	--	--	--	--	--	--	--
BLT-4	**26.5**	**44.6**	7.1	**44.6**	**31.6**	**44.8**	**35.9**	**93.0**
BLT-5	15.1	16.7	19.2	17.9	19.5	**22.8**	**20.3**	**75.1**
BLT-6	9.6	16.4	10	15.1	**22**	**89.7**	**29.5**	**76.5**
BLT-7	12.2	**29**	5.5	8.3	13.2	16.8	11.1	**65.5**
BLT-8	10.9	14.7	7.1	11.3	15.6	15.8	**22.3**	--
BLT-9	9.6	--	--	5.9	13.6	--	--	--
BLT-10	**21.8**	**49.2**	11.7	**34.3**	**36.7**	**85.4**	**26.0**	**62.5**
BLT-11	18.1	**26**	7.1	**23.7**	14.5	**24.0**	20.0	**59.4**
BLT-12	**43.8**	--	14.3	--	**31.2**	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentratic which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Phosphorus (µg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/3/2021	7/26/2021	10/13/2021
BLT-1	**45.1**	**315.0**	16.8	**34.9**	**66.5**	**30.6**
BLT-2	--	--	--	**42.4**	**142.8**	**52.9**
BLT-3	--	--	--	**61.8**	**47.7**	**110.8**
BLT-4	**31.5**	**40.4**	**24.4**	**43.0**	**45.9**	13.6
BLT-5	17.9	**22.9**	**25.2**	**24.6**	**28.7**	16.7
BLT-6	**25.7**	**21.4**	**25.0**	**31.1**	**51.6**	**32.4**
BLT-7	11.2	7.1	**10.8**	18.4	18.6	**27.7**
BLT-8	**26.5**	**44.6**	19.0	17.1	**40.9**	16.2
BLT-9	--	--	--	--	**492.8**	**375.5**
BLT-10	**32.4**	**20.1**	18.0	**45.1**	**46.7**	**44.4**
BLT-11	14.3	**32.1**	10.5	**72.7**	**102.2**	**50.3**
BLT-12	--	--	--	**56.0**	**431.5**	--

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke.
3. A sample result preceded by the symbol '<' indicates that Total Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH GV, as no standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 30

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)									
	Spring		Summer		Fall		Spring		Summer	
	5/21/2002	5/28/2002	6/6/2002	9/12/2002	9/16/2002	9/16/2002	3/30/2004	3/31/2004	6/22/2004	6/22/2004
BLT-1	11.85	*	**20.05**	--	**132.10**	--	8.28	11.01	--	**43.00**
BLT-2	12.49	*	12.61	--	**48.53**	**44.92**	--	--	--	--
BLT-3	--	--	--	--	--	--	--	--	--	--
BLT-4	19.88	*	**28.37**	--	**31.81**	**27.22**	11.01	12.72	**22.00**	**32.00**
BLT-5	16.35	*	**51.52**	--	**127.20**	**39.68**	--	--	--	--
BLT-6	8.64	*	12.91	17.04	**344.44**	**21.00**	8.97	6.93	14.00	**22.00**
BLT-7	6.07	*	**22.65**	4.93	**106.55**	12.72	6.24	10.33	--	--
BLT-8	8.64	*	12.91	13.13	**27.55**	12.15	3.86	6.00	--	--
BLT-9	3.82	*	--	--	--	--	--	--	--	--
BLT-10	12.81	*	**31.70**	--	**50.82**	**25.26**	--	--	--	--
BLT-11	10.24	*	16.27	--	**28.86**	*	--	--	15.00	20.00
BLT-12	15.38	*	**66.65**	--	**95.73**	**45.91**	--	--	19.00	**28.00**

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)									
	Spring		Summer		Spring		Summer		Fall	
	5/12/2005	5/31/2005	6/16/2005	7/21/2005	3/31/2006	4/3/2006	7/26/2006	9/15/2006	10/1/2006	10/10/2006
BLT-1	12.30	11.90	--	--	3.20	5.90	**25.10**	17.30	*	*
BLT-2	11.30	*	*	*	3.90	12.40	*	*	*	*
BLT-3	--	--	--	--	--	--	**24.50**	17.00	11.00	19.80
BLT-4	14.20	15.40	17.90	<DL	5.20	8.30	**24.50**	17.00	11.00	19.80
BLT-5	13.30	11.10	16.20	16.20	*	*	14.80	**32.30**	ND	**94.10**
BLT-6	7.30	6.00	13.90	13.60	2.90	3.90	12.30	13.20	7.50	14.80
BLT-7	4.30	3.40	5.70	6.70	2.20	4.20	5.10	9.50	2.90	6.00
BLT-8	3.00	4.30	3.00	15.10	2.90	4.20	14.20	10.10	9.20	12.30
BLT-9	--	--	--	--	--	--	--	--	--	--
BLT-10	13.90	15.20	15.60	**23.70**	7.30	6.60	19.20	19.50	11.30	15.70
BLT-11	16.50	9.00	7.30	18.90	5.90	5.20	13.90	12.90	10.70	11.00
BLT-12	11.60	12.60	11.60	19.40	9.60	7.90	15.40	**22.30**	12.60	15.70

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)									
	Spring		Fall		Spring		Summer		Fall	
					Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*
	5/14/2007	**5/16/2007**	**9/10/2007**	**9/11/2007**	**6/3/2008**	**6/4/2008**	**8/11/2008**	**8/13/2008**	**10/6/2008**	**10/28/2008**
BLT-1	**25.40**	18.60	--	**21.30**	7.90	13.30	**23.10**	6.40	11.50	**36.90**
BLT-2	--	--	--	**76.20**	5.30	**20.30**	**82.30**	10.00	6.90	**67.30**
BLT-3	--	--	--	--	9.50	8.80	--	--	--	**86.80**
BLT-4	**24.80**	18.30	**36.10**	**20.60**	**20.30**	**25.70**	**36.50**	19.00	10.80	**51.70**
BLT-5	15.10	**33.60**		**50.60**	14.20	16.50	**30.70**	**22.50**	**20.10**	**78.00**
BLT-6	12.60	14.50	18.40	**20.60**	9.50	10.40	**30.30**	**30.60**	9.50	**27.20**
BLT-7	5.40	10.80	2.30	9.90	4.70	5.00	--	5.50	2.90	**79.90**
BLT-8	14.50	11.40	--	**25.00**	8.20	4.70	**27.30**	17.90	10.50	--
BLT-9	--	--	--	--	3.10	3.10	9.60	5.80	2.30	11.80
BLT-10	19.50	**20.80**	19.00	**21.30**	14.20	14.90	**29.00**	15.30	7.90	**57.50**
BLT-11	14.20	14.20	8.00	**29.10**	12.30	9.10	16.30	15.90	8.50	**25.50**
BLT-12	15.70	**23.60**	--	**64.50**	5.30	5.60	**59.30**	--	7.50	**78.30**

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)									
	Spring		Summer		Fall		Spring		Summer	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	3/24/2009	**4/15/2009**	**6/30/2009**	**7/21/2009**	**9/22/2009**	**11/30/2009**	**6/9/2010**	**5/4/2010**	**7/20/2010**	**8/27/2010**
BLT-1	4.10	--	19.70	**29.30**	19.60	**62.10**	2.090	<0.05	--	--
BLT-2	11.20	13.40	19.70	**56.10**	4.00	14.80	0.157	<0.05	--	--
BLT-3	--	--	**31.00**	**53.50**	--	**66.60**	--	<0.05	--	--
BLT-4	6.10	8.10	15.50	**32.20**	14.40	11.60	0.381	<0.05	<0.05	4.320
BLT-5	8.80	10.40	10.30	**54.10**	17.00	**119.00**	0.477	<0.05	<0.05	4.000
BLT-6	2.70	3.40	6.10	**22.00**	10.20	6.80	0.201	<0.05	0.990	7.990
BLT-7	2.00	2.00	11.00	**54.10**	2.70	11.60	1.970	<0.05	<0.05	9.940
BLT-8	2.70	8.10	3.20	14.30	7.00	4.50	0.084	<0.05	<0.05	5.920
BLT-9	1.00	1.40	**21.00**	17.70	--	**45.70**	<0.01	<0.05	--	--
BLT-10	8.20	8.70	8.70	16.20	10.20	16.40	3.910	<0.05	0.490	7.720
BLT-11	5.10	--	4.20	9.20	11.20	7.80	1.210	<0.05	<0.05	4.580
BLT-12	12.90	--	14.20	**29.60**	--	15.40	--	<0.05	--	11.400

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)										
	Fall		Spring		Summer	Fall		Spring	Summer		Fall
	Dry	*Wet*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	10/14/2010	**10/1/2010**	**6/29/2011**	**8/2/2011**	**8/22/2011**	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**
BLT-1	--	<0.05	17.70	15.50	**21.80**	8.80	6.60	**23.20**	**35.40**	**32.60**	**23.30**
BLT-2	--	<0.05	**23.30**	--	**21.10**	10.10	19.90	**20.70**	8.90	11.50	**56.00**
BLT-3	--	<0.05	--	--	--	8.20	18.20	12.90	--	--	**39.70**
BLT-4	<0.05	<0.05	**27.30**	**25.80**	**24.10**	10.20	**20.60**	**43.30**	**34.60**	**25.90**	**23.90**
BLT-5	<0.05	<0.05	17.70	18.70	17.30	14.70	**21.60**	18.30	17.80	15.80	**25.00**
BLT-6	<0.05	<0.05	18.00	16.20	18.30	6.80	10.40	12.90	**26.30**	16.50	**361.70**
BLT-7	<0.05	<0.05	**22.80**	4.50	6.80	6.80	11.40	6.60	12.40	5.10	8.30
BLT-8	<0.05	<0.05	14.20	7.40	19.30	3.70	12.40	8.30	**21.50**	11.50	18.50
BLT-9	0.700	<0.05	3.80	5.80	3.80	1.60	3.70	2.90	4.40	9.80	15.10
BLT-10	<0.05	<0.05	**31.60**	16.80	**30.10**	6.80	12.40	**22.70**	**27.90**	10.10	8.70
BLT-11	<0.05	<0.05	**23.00**	11.00	9.20	3.30	4.60	8.20	10.50	11.50	9.70
BLT-12	--	<0.05	15.70	--	**21.10**	9.50	**23.00**	11.90	16.60	--	10.50

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

Appendix D, Table 30

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)										
	Fall	Spring		Summer		Fall	Spring		Summer	Fall	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	12/11/2012	**5/23/2013**	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	10.10	**21.40**	15.80	10.70	--	18.70	10.30	**23.80**	**36.80**	14.10	8.70
BLT-2	14.30	**79.90**	17.40	8.10	--	18.70	11.60	18.90	19.90	**24.90**	12.40
BLT-3	--	**76.50**	12.50	--	--	--	8.60	9.30	--	--	--
BLT-4	7.70	**84.00**	19.00	17.40	14.30	8.60	12.30	18.90	11.70	14.80	15.80
BLT-5	16.00	**88.80**	13.80	12.60	13.90	15.80	16.00	13.90	11.70	**36.60**	13.00
BLT-6	6.30	**60.70**	10.90	**57.70**	13.90	9.90	5.30	11.30	11.70	10.00	7.80
BLT-7	6.00	**64.80**	6.00	4.00	3.60	3.40	6.60	5.10	**23.20**	13.50	4.70
BLT-8	6.30	**84.00**	7.60	12.30	13.60	8.30	8.30	8.70	14.60	12.90	7.80
BLT-9	--	9.10	4.10	1.40	3.30	1.40	1.90	4.40	--	5.60	3.50
BLT-10	9.80	**40.10**	16.10	7.50	12.70	10.90	12.30	14.50	18.30	15.70	11.20
BLT-11	4.30	11.80	7.00	12.00	11.20	6.00	5.60	7.00	5.40	7.50	8.10
BLT-12	6.70	**81.30**	11.20	8.40	--	12.50	12.30	13.00	18.60	14.50	15.80

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 30

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**6/17/2019**
BLT-1	11.30	18.10	**98.40**	--	--	--	**34.70**	--	--	8.08
BLT-2	17.00	16.80	12.20	--	--	--	--	--	--	7.72
BLT-3	10.30	--	--	--	--	--	--	--	--	--
BLT-4	11.90	--	**24.70**	--	16.70	**28.20**	**26.50**	**33.90**	--	7.78
BLT-5	16.30	**28.40**	13.70	15.60	17.70	15.80	17.70	17.00	18.50	7.18
BLT-6	5.20	14.80	15.30	**22.30**	16.00	13.80	19.00	19.50	13.20	7.94
BLT-7	7.20	4.90	6.60	4.00	5.30	3.70	6.30	10.30	4.70	7.90
BLT-8	5.90	4.20	13.70	--	**24.30**	6.00	**25.60**	9.30	--	7.37
BLT-9	2.20	2.50	6.60	--	--	--	9.60	--	--	--
BLT-10	14.30	14.80	19.70	19.50	13.70	7.10	**23.30**	**25.90**	--	8.21
BLT-11	4.90	4.90	12.80	15.30	13.00	**29.30**	11.90	14.70	10.30	8.40
BLT-12	11.30	--	--	--	--	**59.90**	**38.90**	--	--	--

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 30

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)							
	Summer	Fall	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	7/31/2017	11/27/2017	5/31/2018	10/10/2018	6/17/2019	8/27/2019	10/7/2019
BLT-1	19.4	--	14.6	**21.6**	**24.7**	**37.7**	**44.3**	--
BLT-2	13.5	11.4	6.1	16.5	**33.8**	**35.2**	16.9	--
BLT-3	8.9	--	--	--	--	--	--	--
BLT-4	13.5	**24.3**	5.2	**30.5**	**27.7**	**31.4**	**29.3**	**87.9**
BLT-5	15.1	12	11.7	12.4	18.3	18.3	**32.9**	**71.7**
BLT-6	5.3	13.7	7.1	10.7	17	18.9	**21.0**	**68.4**
BLT-7	5	4.4	3.2	5	13.2	11.8	8.1	**51.6**
BLT-8	5.7	14	4.5	8.6	17.7	13.9	**20.1**	--
BLT-9	4.4	--	--	1.8	10	--	--	--
BLT-10	13.2	17.7	5.5	**21.6**	**26.0**	**20.6**	**22.4**	**61.5**
BLT-11	4	11.4	3.2	8.9	10.3	13.4	13.7	**54.7**
BLT-12	19.7	--	12.6	--	**24.2**	--	--	--

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH Guidance Value (as no NYSDEC Part 703 standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Appendix D, Table 30

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Soluble Reactive Phosphorus (µg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	8/17/2020	10/27/2020	6/3/2021	7/26/2021	10/13/2021
BLT-1	**36.3**	**152.0**	**37.2**	**28.8**	**25.2**	**25.8**
BLT-2	--	--	--	**26.4**	**39.5**	8.9
BLT-3	--	--	--	16.1	**31.6**	15.9
BLT-4	**27.2**	**34.2**	**21.0**	**33.2**	**37.8**	12.9
BLT-5	14.5	**21.7**	**20.9**	19.3	17.1	15.1
BLT-6	15.2	19.5	**20.2**	15.5	**29.3**	16.1
BLT-7	4.7	6.6	6.5	10.4	16.1	5.9
BLT-8	13.2	16.4	15.6	10.4	**23.4**	12.4
BLT-9	--	--	--	--	6.7	7.6
BLT-10	**28.6**	19.7	9.8	**23.9**	**35.0**	**21.1**
BLT-11	8.7	16.4	7.6	12.2	11.3	10.6
BLT-12	--	--	--	17.4	**60.2**	--

NOTES:

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3. A sample result preceded by the symbol '<' indicates that Soluble Phosphorus was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL
4. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDOH GV, as no standard exists). The NYSDOH Guidance Value for Phosphorus is 20 µg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)									
	Spring		Summer		Fall		Spring		Summer	
	Dry	*Wet*	*Wet*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	06/03/08	**06/04/08**	**08/11/08**	**08/13/08**	**10/08/08**	**10/28/08**	**03/24/09**	**04/15/09**	**06/30/09**	**07/21/09**
BLT-1	<0.5	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	1.100	<0.5	<0.5
BLT-2	<0.5	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	2.200	<0.5	<0.5
BLT-3	<0.5	2.200	--	--	--	<0.5	--	1.900	--	<0.5
BLT-4	<0.5	1.800	<0.5	<0.5	<0.5	<0.5	<0.5	1.200	<0.5	<0.5
BLT-5	<0.5	2.000	<0.5	<0.5	<0.5	<0.5	0.710	1.100	<0.5	<0.5
BLT-6	<0.5	2.400	<0.5	<0.5	<0.5	<0.5	<0.5	1.200	<0.5	<0.5
BLT-7	<0.5	1.900	<0.5	<0.5	<0.5	<0.5	<0.5	1.700	<0.5	<0.5
BLT-8	<0.5	3.000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BLT-9	<0.5	1.800	<0.5	<0.5	<0.5	0.600	<0.5	0.750	<0.5	<0.5
BLT-10	<0.5	2.200	<0.5	<0.5	<0.5	0.700	<0.5	<0.5	<0.5	<0.5
BLT-11	<0.5	1.600	<0.5	<0.5	<0.5	<0.5	<0.5	0.570	<0.5	<0.5
BLT-12	<0.5	1.900	<0.5	--	<0.5	0.700	<0.5	<0.5	<0.5	<0.5

NOTES:

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2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)									
	Fall		Spring		Summer		Fall		Spring	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	09/22/09	**11/30/09**	**06/09/10**	**05/04/10**	**07/20/10**	**08/27/10**	**10/14/10**	**10/01/10**	**06/29/11**	**08/02/11**
BLT-1	<0.5	<0.175	0.778	1.670	--	--	--	<0.500	1.000	1.000
BLT-2	<0.5	<0.175	<0.500	1.370	--	--	--	<0.500	1.000	--
BLT-3	--	<0.175	--	2.120	--	--	--	0.526	--	--
BLT-4	<0.5	<0.175	<0.500	2.420	1.790	<0.500	1.890	<0.500	1.000	1.000
BLT-5	<0.5	<0.175	0.865	<0.500	1.260	0.555	2.380	<0.500	1.000	1.000
BLT-6	<0.5	<0.175	<0.500	1.230	0.513	<0.500	2.740	8.110	1.000	1.000
BLT-7	<0.5	<0.175	1.370	<0.500	1.370	1.330	2.270	<0.500	1.000	1.000
BLT-8	<0.5	<0.175	<0.500	0.631	0.757	0.555	<0.500	<0.500	1.000	1.000
BLT-9	--	<0.175	2.660	<0.500	--	--	3.440	<0.500	1.000	1.000
BLT-10	<0.5	<0.175	1.050	<0.500	1.470	<0.500	1.300	<0.500	*	1.000
BLT-11	<0.5	<0.175	0.667	0.706	1.050	0.757	2.330	<0.500	1.000	1.000
BLT-12	--	<0.175	--	1.160	--	1.410	--	<0.500	1.000	--

NOTES:

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)								
	Summer	Fall		Spring	Summer		Fall		Spring
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	08/22/11	**11/03/11**	**12/08/11**	**05/31/12**	**07/18/12**	**09/17/12**	**10/03/12**	**12/11/12**	**05/23/13**
BLT-1	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-2	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-3	--	1.000	1.000	< 1.0	--	--	< 1.0	--	< 1.0
BLT-4	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.200
BLT-5	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	2.900	< 1.0	< 1.0
BLT-6	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-7	1.000	1.000	1.000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-8	*	1.000	1.000	1.100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-9	1.000	1.000	1.000	< 1.0	< 1.0	1.700	< 1.0	--	< 1.0
BLT-10	1.000	1.000	1.000	1.000	< 1.0	1.500	< 1.0	< 1.0	< 1.0
BLT-11	1.000	1.000	1.000	< 1.0	1.000	< 1.0	< 1.0	< 1.0	< 1.0
BLT-12	1.000	1.000	1.000	< 1.0	< 1.0	--	2.000	< 1.0	< 1.0

NOTES:

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3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)								
	Spring	Summer		Fall	Spring		Summer	Fall	
	Dry	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	06/06/13	**08/14/13**	**09/19/13**	**12/04/13**	**05/07/14**	**06/04/14**	**07/21/14**	**12/3/174**	**12/18/14**
BLT-1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-2	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-3	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
BLT-4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0
BLT-10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-12	1.500	1.500	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

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3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	04/28/15	**06/09/15**	**07/15/15**	**09/02/15**	**10/01/15**	**10/22/15**	**8/17/16**	**8/31/16**	**9/26/16**	**10/31/16**
BLT-1	< 1.0	< 1.0	< 1.0	--	--	--	< 1.0	--	--	< 1.0
BLT-2	< 1.0	< 1.0	< 1.0	--	--	--	--	--	--	< 1.0
BLT-3	< 1.0	--	--	--	--	--	--	--	--	--
BLT-4	< 1.0	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
BLT-5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-8	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
BLT-9	< 1.0	< 1.0	< 1.0	--	--	--	< 1.0	--	--	< 1.0
BLT-10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
BLT-11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BLT-12	< 1.0	--	--	--	--	< 1.0	< 1.0	--	--	< 1.0

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	04/24/17	**07/31/17**	**11/27/17**	**05/31/18**	**10/10/18**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	< 1.0	--	< 1.0	<1	1.8	<1	<1	--
BLT-2	< 1.0	< 1.0	< 1.0	1.54	1.2	1.22	<1	--
BLT-3	< 1.0	--	--	--	--	--	--	--
BLT-4	< 1.0	2.0	< 1.0	<1	<1	<1	<1	<1
BLT-5	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	<1
BLT-6	< 1.0	< 1.0	< 1.0	<1	1.0	<1	<1	<1
BLT-7	< 1.0	< 1.0	< 1.0	<1	1.1	<1	<1	<1
BLT-8	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	--
BLT-9	< 1.0	--	--	<1	<1	--	--	--
BLT-10	< 1.0	< 1.0	< 1.0	1.24	<1	<1	<1	<1
BLT-11	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	<1
BLT-12	< 1.0	--	< 1.0	--	1.4	--	--	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke in transit to the laboratory.
3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	< 1	1.0	< 1	< 1	< 1	< 0.552
BLT-2	--	--	--	6.00	< 1	< 0.552
BLT-3	--	--	--	3.86	1.33	1.44
BLT-4	2.52	< 1	< 1	< 1	< 1	< 0.513
BLT-5	< 1	< 1	< 1	1.14	< 1	< 0.513
BLT-6	< 1	< 1	< 1	1.57	< 1	< 0.552
BLT-7	< 1	< 1	< 1	< 1	< 1	< 0.513
BLT-8	1.41	< 1	< 1	1.43	< 1	< 0.513
BLT-9	--	--	--	--	< 1	< 0.513
BLT-10	< 1	< 1	< 1	3.57	< 1	2.65
BLT-11	< 1	< 1	1.25	1.00	< 1	< 0.513
BLT-12	--	--	--	< 1	< 1	--

NOTES:

1. -- = no available data.
2. * = Sample was collected but not analyzed, as sample vessel broke.
3. A sample result preceded by the symbol '<' indicates that TPH was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)							
	Spring		Summer		Fall		Spring	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/9/2010	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**
BLT-1	7.54	26.2	--	--	--	24.9	18.2	32.9
BLT-2	131	108	--	--	--	40.3	136.4	--
BLT-3	--	227	--	--	--	25.9	--	--
BLT-4	182	139	145	140	142	46.9	161.6	181.9
BLT-5	**361**	**315**	249	227	239	188	**412.8**	**427.3**
BLT-6	92.4	61.8	147	135	132	37.1	104.5	150.0
BLT-7	157	130	126	123	136	50.3	152.8	161.6
BLT-8	**251**	186	191	113	137	68.4	164.8	**262.5**
BLT-9	135	138	--	--	143	118	112.5	228.2
BLT-10	21.6	14.1	38.2	66.3	87.9	34.3	25.5	45.1
BLT-11	43.1	57.7	51.5	34.1	41.5	30.4	74.4	70.5
BLT-12	--	194	--	191	--	134	172.8	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)							
	Summer	Fall		Spring	Summer		Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	8/22/2011	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	21.3	24.7	12.9	11.1	5.3	5.0	28.2	177.2
BLT-2	118.3	81.3	58.7	100.2	131.7	176.9	79.4	149.8
BLT-3	--	139.8	78.4	137.7	--	--	4.3	--
BLT-4	131.7	86.8	40.3	95.0	88.5	199.4	66.5	109.8
BLT-5	**384.3**	**266.6**	122.6	238.1	**259.2**	**262.6**	224.6	224.8
BLT-6	**878.2**	53.1	41.3	58.8	64.6	**261.1**	57.1	75.8
BLT-7	126.2	66.2	49.9	75.7	83.9	204.7	76.7	97.1
BLT-8	131.6	119.2	69.4	107.4	101.1	137.8	73.8	218.8
BLT-9	139.6	60.3	44.2	61.8	118.1	129.2	138.2	--
BLT-10	35.7	13.5	6.3	18.0	138.4	53.2	39.3	23.7
BLT-11	68.5	86.3	57.4	45.7	63.5	72.2	52.4	67.7
BLT-12	166.2	115.1	91.9	125.8	148.3	--	135.6	20.9

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	24.9	20.3	26.7	--	19.6	33.1	31.4	14.7	32.2	24.9
BLT-2	39.3	117.1	164.4	--	162.2	163.0	156.5	181.8	176.7	124.5
BLT-3	47.7	217.6	--	--	--	**339.9**	**375.7**	--	--	--
BLT-4	32.1	140.7	152.6	132.7	140.7	135.6	178.5	172.3	179.7	121.2
BLT-5	108.1	**313.3**	**410.9**	**358.2**	**355.8**	**296.3**	**492.8**	**516.9**	**454.5**	**476.0**
BLT-6	24.3	76.5	108.8	157.8	119.3	69.7	81.7	106.2	82.2	98.8
BLT-7	31.7	117.8	160.4	140.6	130.2	112.8	167.8	168.7	138.2	126.3
BLT-8	43.7	199.8	220.4	174.1	142.2	215.8	**314.6**	242.7	199.9	157.8
BLT-9	111.8	86.2	188.6	166.5	152.6	62.8	164.0	--	185.1	98.2
BLT-10	13.5	25.6	33.0	40.3	63.2	34.9	21.7	36.2	86.8	37.0
BLT-11	140.9	64.0	75.5	74.4	86.4	96.1	120.4	101.3	141.1	111.1
BLT-12	57.7	239.2	166.9	--	157.9	182.2	**295.2**	**330.6**	**451.7**	**341.5**

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	42.6	33.8	39.5	--	--	--	58.0	--	--	31.3
BLT-2	157.9	137.5	188.0	--	--	--	--	--	--	97.6
BLT-3	**328.7**	--	--	--	--	--	--	--	--	--
BLT-4	173.3	--	**267.3**	--	172.6	236.4	181.1	**266.5**	--	116.5
BLT-5	**486.7**	**481.4**	**633.5**	**583.8**	**562.5**	**576.1**	**449.6**	**481.8**	**540.9**	**498.6**
BLT-6	93.0	76.1	28.8	**251.6**	181.7	194.9	157.0	240.9	**259.9**	118.8
BLT-7	170.0	166.1	88.7	212.7	192.7	195.5	142.5	200.5	157.6	151.4
BLT-8	**454.2**	**433.4**	64.4	--	203.2	**319.8**	212.9	230.7	--	115.1
BLT-9	**254.8**	**349.2**	**360.9**	--	--	--	**257.0**	--	--	**257.6**
BLT-10	42.1	41.0	46.8	81.8	93.5	86.7	65.1	85.1	--	99.4
BLT-11	159.9	157.5	28.7	133.7	92.8	152.2	139.0	117.8	85.7	58.1
BLT-12	**404.8**	--	--	--	--	**520.2**	202.2	--	--	153.6

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard.

For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	39.2	--	19.6	29.1	28.0	34.5	11.6	--
BLT-2	131.2	142.4	232.4	230.8	112.6	140.4	177.8	--
BLT-3	**343.5**	--	--	--	--	--	--	--
BLT-4	164.5	237.6	182.9	230.6	126.0	145	160.1	216.5
BLT-5	**466.0**	**504.0**	**502.3**	**588.9**	**611.5**	**500.2**	23.6	**502.2**
BLT-6	81.0	189.3	159.2	119.3	83.3	92.3	127.7	246.6
BLT-7	143.3	208.4	162.2	**260.6**	138.3	157.2	15.2	224.9
BLT-8	**334.3**	**286.0**	205.9	220.9	147.7	**273.3**	175.4	--
BLT-9	156.9	--	--	**284.7**	64.6	--	--	--
BLT-10	30.2	76.5	115.4	32.2	26.8	22.1	53.4	65.0
BLT-11	135.2	147.0	145.9	141.1	106.1	110.9	122.0	129.2
BLT-12	**362.9**	--	**431.4**	--	**304.1**	--	--	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Chloride (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	16.9	9.7	28.7	30.6	29.0	26.2
BLT-2	--	--	--	144.2	144.5	**262**
BLT-3	--	--	--	**276.7**	**305.5**	**307**
BLT-4	160.7	137.5	130.7	145.9	151.5	166
BLT-5	**447.9**	**444.7**	**426.5**	**423.7**	**485.8**	**499**
BLT-6	101	174.5	169.6	92.7	102.6	109
BLT-7	171.6	170.7	168.1	168.3	169.1	200
BLT-8	218.6	188.5	145.3	**288.1**	**285.2**	216
BLT-9	--	--	--	--	189.0	162
BLT-10	18.8	37.0	73.6	48.3	42.3	26.2
BLT-11	112.4	107.6	114.4	95.0	95.4	107
BLT-12	--	--	--	**377.2**	**270.6**	--

NOTES:

1. -- = no available data.
2. Cells that are **BOLD** and shaded indicate that the result exceeds NYSDEC Part 703. For NYSDEC Class A surface waters, Chloride must be below 250.0 mg/L.

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)							
	Spring		Summer		Fall		Spring	
	Dry	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*
	6/9/2010	**5/4/2010**	**7/20/2010**	**8/27/2010**	**10/14/2010**	**10/1/2010**	**6/29/2011**	**8/2/2011**
BLT-1	44	--	--	--	--	14	46	126
BLT-2	150	--	--	--	--	40	66	--
BLT-3	--	--	--	--	--	<2.0	--	--
BLT-4	110	--	140	120	63	53	98	128
BLT-5	120	--	120	120	120	78	122	108
BLT-6	74	--	100	110	240	27	56	90
BLT-7	74	--	84	91	240	35	58	80
BLT-8	110	--	84	130	210	87	108	86
BLT-9	89	--	--	--	220	62	88	86
BLT-10	25	--	35	35	140	35	24	32
BLT-11	74	--	74	77	170	65	52	64
BLT-12	--	--	--	130	--	78	120	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)							
	Summer	Fall		Spring	Summer		Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*
	8/22/2011	**11/3/2011**	**12/8/2011**	**5/31/2012**	**7/18/2012**	**9/17/2012**	**10/3/2012**	**12/11/2012**
BLT-1	52	38	36	40	38	40	52	88
BLT-2	78	56	42	82	154	190	82	94
BLT-3	--	64	46	82	--	--	78	--
BLT-4	110	80	56	104	120	150	110	110
BLT-5	116	132	96	124	132	142	134	146
BLT-6	66	48	36	58	80	126	74	66
BLT-7	70	54	40	56	64	102	72	56
BLT-8	154	104	76	94	102	116	148	114
BLT-9	82	72	56	70	100	128	124	--
BLT-10	24	<20	<20	22	30	36	42	28
BLT-11	66	58	42	56	54	70	72	66
BLT-12	122	98	78	70	108	--	112	38

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)									
	Spring		Summer		Fall	Spring		Summer	Fall	
	Wet	*Dry*	*Wet*	*Dry*	*Dry*	*Dry*	*Wet*	*Wet*	*Dry*	*Wet*
	5/23/2013	**6/6/2013**	**8/14/2013**	**9/19/2013**	**12/4/2013**	**5/7/2014**	**6/4/2014**	**7/21/2014**	**12/3/2014**	**12/18/2014**
BLT-1	< 20	40	64	--	44	36	50	44	30	28
BLT-2	32	70	148	--	68	42	82	116	68	42
BLT-3	34	78	--	--	--	48	66	--	--	--
BLT-4	30	88	122	138	104	68	88	112	88	68
BLT-5	68	110	120	130	126	88	96	108	106	108
BLT-6	24	52	86	114	96	40	52	69	56	42
BLT-7	26	50	82	96	68	36	58	66	46	40
BLT-8	36	84	116	120	106	78	94	134	114	84
BLT-9	48	52	102	100	82	48	70	--	68	56
BLT-10	20	< 20	30	34	40	16	20	28	34	< 20
BLT-11	56	44	66	68	58	40	40	56	74	50
BLT-12	46	68	100	--	104	58	64	76	80	74

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)									
	Spring		Summer		Fall		Summer		Fall	
	Dry	*Wet*	*Wet*	*Dry*	*Wet*	*Dry*	*Wet*	*Dry*	*Dry*	*Wet*
	4/28/2015	**6/9/2015**	**7/15/2015**	**9/2/2015**	**10/1/2015**	**10/22/2015**	**8/17/2016**	**8/31/2016**	**9/26/2016**	**10/31/2016**
BLT-1	36	46	82	--	--	--	60	--	--	26
BLT-2	52	58	156	--	--	--	--	--	--	74
BLT-3	54	--	--	--	--	--	--	--	--	--
BLT-4	74	--	146	--	130	142	144	158	--	98
BLT-5	96	96	106	104	104	108	114	116	114	112
BLT-6	46	56	84	114	94	114	94	116	110	70
BLT-7	44	52	72	86	86	78	92	94	90	74
BLT-8	74	104	120	--	154	94	180	106	--	138
BLT-9	52	66	80	--	--	--	100	--	--	82
BLT-10	18	22	20	36	36	36	36	38	--	38
BLT-11	48	60	64	60	72	60	76	80	82	78
BLT-12	70	--	--	--	--	188	248	--	--	146

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)							
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	4/24/2017	**7/31/2017**	**11/27/2017**	**5/31/2018**	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**
BLT-1	40	--	48	54	56	60	58	--
BLT-2	48	162	150	103	56	80	178	--
BLT-3	48	--	--	--	--	--	--	--
BLT-4	78	144	114	94	80	110	138	158
BLT-5	106	124	122	103	132	138	154	150
BLT-6	40	102	94	54	46	62	94	122
BLT-7	44	88	56	52	56	66	88	98
BLT-8	82	128	126	88	108	112	164	--
BLT-9	64	--	--	21	80	--	--	--
BLT-10	<20	34	36	22	20	24	30	40
BLT-11	50	82	80	64	48	66	74	92
BLT-12	136	--	170	--	108	--	--	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

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Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Alkalinity (mg/L)					
	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	6/10/2020	**8/17/2020**	**10/27/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	56	78	86	48	66	72
BLT-2	--	--	--	84	108	160
BLT-3	--	--	--	78	96	110
BLT-4	126	146	144	96	116	120
BLT-5	142	146	158	142	144	160
BLT-6	78	108	124	64	74	76
BLT-7	76	90	92	62	64	80
BLT-8	122	134	158	106	150	130
BLT-9	--	--	--	--	114	110
BLT-10	26	30	40	24	28	28
BLT-11	66	84	88	66	82	96
BLT-12	--	--	--	158	202	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Alkalinity was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

Appendix D, Table 34

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Calcium (mg/L)										
	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*	*Dry*
	5/31/2018	**10/10/2018**	**6/17/2019**	**8/27/2019**	**10/7/2019**	**6/10/2020**	**8/17/2020**	**10/27/2020**	**6/3/2021**	**7/26/2021**	**10/13/2021**
BLT-1	19.4	17.9	17.9	15.6	--	17.8	24.8	24.9	15.8	16.7	18.7
BLT-2	60.6	28.8	48.1	82.6	--	--	--	--	45.0	42.9	70.0
BLT-3	--	---	--	--	--	--	--	--	52.4	42.1	43.7
BLT-4	60.9	37.2	44.2	60.9	81.7	60.6	63.8	63.2	15.7	43.7	48.9
BLT-5	148.6	138.5	137	124.6	122.1	129.2	115.8	111.3	< 0.01	119.3	113.0
BLT-6	40.4	28.9	34.1	51.6	71.7	42.5	66.8	64.8	40.0	35.9	36.3
BLT-7	59.0	37.8	41.6	51.9	68.9	50.8	54.6	55.1	42.4	38.4	45.4
BLT-8	67.3	31.5	46.3	36.2	--	45.5	37.6	34.8	49.5	46.0	37.1
BLT-9	56.9	15.6	--	--	--	--	--	--	--	40.5	37.0
BLT-10	11.0	9.4	9.3	11.9	16.6	10.5	15.2	21.0	7.4	10.0	10.6
BLT-11	58.0	46.7	50.6	57.3	64.2	52.0	60.1	61.4	29.7	49.3	48.7
BLT-12	--	56.9	--	--	--	--	--	--	43.0	60.3	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Calcium was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).

Appendix D, Table 35

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Iron (mg/L)		
	Spring	Summer	Fall
	Dry	*Dry*	*Dry*
	6/3/2021	**7/26/2021**	**10/13/2021**
BLT-1	0.26	**0.31**	< 0.278
BLT-2	**0.83**	**0.54**	< 0.278
BLT-3	**0.31**	0.05	< 0.278
BLT-4	0.06	0.06	< 0.278
BLT-5	< 0.01	< 0.005	< 0.278
BLT-6	**0.71**	0.10	< 0.278
BLT-7	0.28	0.09	< 0.278
BLT-8	0.11	0.07	< 0.278
BLT-9	--	0.09	< 0.278
BLT-10	0.09	0.04	< 0.278
BLT-11	**1.00**	0.02	< 0.278
BLT-12	**0.44**	0.02	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Iron was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For Class A surface waters, Iron must be below 0.300 mg/L.

Appendix D, Table 36

Byram Lake

Seasonal Water Quality Parameters

Tributary Laboratory Parameters

Complete Data Record (2002-2021)

Location Name	Dissolved Manganese (mg/L)		
	Spring	Summer	Fall
	Dry	*Dry*	*Dry*
	6/3/2021	**7/26/2021**	**10/13/2021**
BLT-1	0.02	0.02	< 0.00556
BLT-2	**0.52**	**0.35**	**1.00**
BLT-3	0.21	0.04	< 0.00556
BLT-4	0.01	< 0.01	< 0.00556
BLT-5	< 0.01	< 0.005	< 0.00556
BLT-6	0.14	0.01	< 0.00556
BLT-7	0.07	0.06	0.0431
BLT-8	0.02	< 0.005	< 0.00556
BLT-9	--	0.01	0.00679
BLT-10	< 0.01	< 0.005	< 0.00556
BLT-11	**0.53**	0.02	< 0.00556
BLT-12	0.05	0.06	--

NOTES:

1. -- = no available data.
2. A sample result preceded by the symbol '<' indicates that Manganese was not detected at the noted concentration, which is the laboratory minimum detection limit (MDL).
3. Cells that are **BOLD** and shaded indicate that the result exceeds the NYSDEC Part 703 standard. For Class A surface waters, Manganese must be below 0.300 mg/L.

LaBella Associates, DPC

April 2022

APPENDIX E

Zooplankton Data

Appendix E, Table 1

Densities and Biomass of Zooplankton Identified in Byram Lake (2008-2021)

Order	Species	BL-2 (number of organisms / liter)													
		6/3/2008	9/18/2008	6/30/2009	9/22/2009	8/19/2010	7/18/2012	9/19/2013	7/21/2014	9/2/2015	8/31/2016	#######	10/7/2019	8/17/2020	7/26/2021
Cladocera	*Bosmina longirostris*	26.74	1.49	35.35	--	3.37	3.60	4.90	71.90	33.65	1.59	--	31.27	4.08	32.63
	Cercopagis pengoi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Ceriodaphnia sp.	0.40	7.00	8.16	0.79	4.28	28.78	15.91	154.50	211.11	67.30	33.65	8.16	57.11	76.15
	Chydorus sphaericus	--	--	--	--	--	--	--	--	--	--	2.89	--	--	--
	Daphnia ambigua	0.40	0.35	--	--	--	--	--	--	--	--	--	--	--	--
	Diaphanosoma sp.	--	0.21	--	3.97	6.12	1.35	--	--	--	3.05	--	--	4.08	2.72
	Eubosmina coregoni	--	--	--	--	--	--	--	--	--	--	15.55	--	--	--
	Leptodora kindtii	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calanoid Copepods	*Diaptomid copepod*	--	0.85	--	1.59	0.31	--	--	--	15.30	10.70	0.76	--	4.08	--
Calanoid Copepodids	*Calanoid copepodid*	--	--	--	--	3.37	--	--	--	--	--	--	--	--	--
Cyclopoid	*Cyclopoid copepod*	--	1.77	--	2.38	--	2.25	12.24	39.80	24.48	--	--	2.72	--	--
	Acanthocyclops vernalis	--	--	--	--	--	--	--	--	44.36	9.17	33.06	19.04	23.12	19.04
	Mesocyclops edax	23.25	--	--	--	0.31	--	--	--	6.12	4.58	--	20.40	2.72	--
	Tropocyclops sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Cyclopoid copepodid	25.88	4.24	16.32	16.68	3.37	2.25	--	35.20	174.39	12.23	116.18	101.98	24.48	16.32
Nauplii	*Nauplii*	3.44	4.81	2.72	32.57	23.56	11.69	48.95	123.90	84.14	36.71	179.92	48.95	38.07	9.52
Rotifera	*Ascomorpha sp.*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Asplanchna sp.	--	--	5.44	0.79	0.92	--	--	--	33.65	--	0.76	1.36	--	6.80
	Brachionus sp.	--	--	--	--	--	--	1.22	--	1.53	--	--	--	--	--
	Collotheca sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Conochillus sp.	6.87	3.89	35.35	--	--	--	--	--	--	--	--	--	--	--
	Euchlanis sp.	--	--	--	--	--	--	--	--	12.24	12.23	--	--	--	--
	Filinia sp.	--	--	--	--	--	--	--	--	--	--	22.10	--	8.16	--
	Gastropus sp.	--	--	8.16	0.79	--	--	--	--	--	--	--	--	--	--
	Kellicottia sp.	--	1.06	2.72	1.59	3.06	--	--	--	--	--	--	--	--	--
	Keratella cochlearis	8.90	15.21	171.33	39.72	16.52	12.59	101.58	107.10	220.28	76.48	274.42	85.67	149.58	17.68
	Keratella quadrangula	1.82	--	--	--	4.59	0.45	--	3.06	--	3.05	--	--	--	--
	Lecane sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Lepadella sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Miscellaneous rotifers	--	--	--	--	--	--	2.45	22.95	3.06	--	--	--	6.80	2.72
	Monostyla sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Notholca sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Polyarthra sp.	0.61	32.89	560.23	27.01	12.24	7.65	48.95	--	1.53	27.53	94.33	47.59	27.20	8.16
	Pompholyx sp.	--	--	--	11.12	--	--	2.45	--	--	--	--	--	--	--
	Synchaeta sp.	--	3.89	2.72	2.38	1.22	--	--	--	--	--	--	--	--	--
	Trichocera sp.	--	--	--	3.18	1.84	--	3.67	--	159.09	--	--	--	23.12	23.12
	Total Biomass														

LaBella Associates, DPC
April 2022

Appendix E, Table 1

Densities and Biomass of Zooplankton Identified in Byram Lake (2008-2021)

Order	Species	BL-2 (µg Dry Weight / liter)													
		6/3/2008	9/18/2008	6/30/2009	9/22/2009	8/19/2010	7/18/2012	9/19/2013	7/21/2014	9/2/2015	8/31/2016	#######	10/7/2019	8/17/2020	7/26/2021
Cladocera	*Bosmina longirostris*	14.44	0.80	19.09	--	1.82	1.90	2.64	38.80	18.17	0.82	--	16.89	2.20	17.62
	Cercopagis pengoi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Ceriodaphnia sp.	0.51	8.75	10.20	0.99	5.35	36.00	19.89	193.10	263.88	84.13	42.07	10.20	71.39	95.18
	Chydorus sphaericus	--	--	--	--	--	--	--	--	--	--	2.89	--	--	--
	Daphnia ambigua	3.64	3.18	--	--	--	--	--	--	--	--	--	--	--	--
	Diaphanosoma sp.	--	0.40	--	7.51	11.56	2.60	--	--	--	5.78	--	--	7.71	5.14
	Eubosmina coregoni	--	--	--	--	--	--	--	--	--	--	8.40	--	--	--
	Leptodora kindtii	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calanoid Copepods	*Diaptomid copepod*	--	9.44	--	17.67	3.40	--	--	--	170.11	119.07	8.51	--	45.36	--
Calanoid Copepodids	*Calanoid copepodid*	--	--	--	--	5.05	--	--	--	--	--	--	--	--	--
Cyclopoid	*Cyclopoid copepod*	--	8.58	--	11.56	--	10.91	59.35	192.90	118.71	--	--	13.19	--	--
	Acanthocyclops vernalis	--	--	--	--	--	--	--	--	17.75	3.67	13.22	7.61	9.25	7.61
	Mesocyclops edax	1.63	--	--	--	0.02	--	--	--	0.43	0.32	--	1.43	0.19	--
	Tropocyclops sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Cyclopoid copepodid	38.82	6.37	24.48	25.02	5.05	3.37	--	52.80	261.59	18.35	174.26	152.97	36.71	24.48
Nauplii	*Nauplii*	0.38	0.53	0.30	3.58	2.59	1.30	5.38	13.60	9.25	4.03	19.79	5.38	4.19	1.05
Rotifera	*Ascomorpha sp.*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Asplanchna sp.	--	--	1.15	0.17	0.19	--	--	--	7.13	--	0.16	0.29	--	1.44
	Brachionus sp.	--	--	--	--	--	--	0.15	--	0.19	--	--	--	--	--
	Collotheca sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Conochillus sp.	0.41	0.23	2.12	--	--	--	--	--	--	--	--	--	--	--
	Euchlanis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Filinia sp.	--	--	--	--	--	--	--	--	--	--	1.55	--	0.57	--
	Gastropus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Kellicottia sp.	--	0.05	0.12	0.07	0.14	--	--	--	--	--	--	--	--	--
	Keratella cochlearis	0.62	1.06	11.99	2.78	1.16	0.88	7.11	7.50	15.42	5.35	19.21	6.00	10.47	1.24
	Keratella quadrangula	0.18	--	--	--	0.46	0.05	--	0.31	--	0.30	--	--	--	--
	Lecane sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Lepadella sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Miscellaneous rotifers	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Monostyla sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Notholca sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Polyarthra sp.	0.04	1.97	33.61	1.62	0.73	0.46	2.94	--	0.09	1.65	5.66	2.86	1.63	0.49
	Pompholyx sp.	--	--	--	0.67	--	--	0.15	--	--	--	--	--	--	--
	Synchaeta sp.	--	0.35	0.24	0.21	0.11	--	--	--	--	--	--	--	--	--
	Trichocera sp.	--	--	--	0.24	0.14	--	0.28	--	11.93	--	--	--	1.74	1.73
	Total Biomass	***60.66***	***41.72***	***103.31***	***72.09***	***37.77***	***57.47***	***97.89***	***499.01***	***894.65***	***243.47***	***295.72***	***216.82***	***191.41***	***155.98***

LaBella Associates, DPC
April 2022

Appendix E, Table 2

Zooplankton Taxa Identified in Byram Lake

Order	Species	2002	2008	2009	2010	2012	2013	2014	2015	2016	2018	2019	2020	2021
Cladocera	*Bosmina sp.*	x	x	x	x	x	x	x	x	x		x	x	x
	Cercopagis pengoi													
	Ceriodaphnia sp.	x	x	x	x	x	x	x	x	x	x	x	x	x
	Chydorus sphaericus										x			
	Daphnia ambigua		x											
	Diaphanosoma sp.		x	x	x	x	x		x				x	x
	Eubosmina coregoni										x			
	Leptodora kindtii													
Calanoid Copepods	*Diaptomid copepod*		x	x	x		x	x	x	x	x		x	
Calanoid Copepodids	*Calanoid copepodid*				x		x		x					
Copepoda	*Cyclopoid copepod*	x				x	x	x	x			x		
	Acanthocyclops vernalis								x	x	x	x	x	x
	Mesocyclops edax	x	x	x	x				x			x	x	
	Tropocyclops sp.									x				
	Cyclopoid copepodid								x	x	x	x	x	x
Nauplii	*Nauplii*	x	x	x	x	x	x	x	x	x	x	x	x	x
Rotifera	*Ascomorpha sp.*													
	Asplanchna sp.	x		x	x				x		x	x		x
	Brachionus sp.						x		x					
	Collotheca sp.													
	Conochillus sp.	x	x	x	x									
	Euchlanis sp.								x					
	Filinia sp.			x	x						x		x	
	Gastropus sp.			x	x	x								
	Kellicottia sp.		x	x	x									
	Keratella cochlearis		x	x	x	x	x	x	x	x	x	x	x	x
	Keratella quadrangula		x	x	x	x		x		x				
	Lecane sp.													
	Lepadella sp.													
	Miscellaneous rotifers						x	x	x				x	x
	Monostyla sp.													
	Notholca sp.													
	Polyarthra sp.		x	x	x	x	x		x	x	x	x	x	x
	Pompholyx sp.			x	x	x	x							
	Synchaeta sp.		x	x	x									
	Trichocera sp.		x	x	x		x		x				x	x
	Total	**7**	**14**	**17**	**18**	**10**	**13**	**8**	**17**	**10**	**11**	**10**	**13**	**11**

LaBella Associates, DPC

April 2022

APPENDIX F

Laboratory Analytical Reports for 2021

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 9:50 AM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266807
Sample Type: Test
Sample Source: BL-3S
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.01	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:29
Manganese	0.02	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:29
Minerals						
Alkalinity	46	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:31
Calcium	23.2	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:29
Chloride	81.8	mg/L	250	EPA 300.0	1	6/4/2021 18:10
Sodium	35.4	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:29
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 18:10
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 18:10
Total Kjeldahl Nitrogen as N	0.88	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	xx	mg/L	No Limit Set	1664A	1	6/14/2021 10:43
Oxygen Demand						
Biochemical Oxygen Demand	1.33	mg/L	No Limit Set	SM5210B-23	1	6/4/2021 14:34
Physical						
Turbidity	0.7	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 10:00 AM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/23/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266808
Sample Type: Test
Sample Source: BL-3M
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Oxygen Demand						
Biochemical Oxygen Demand	1.43	mg/L	No Limit Set	SM5210B-23	1	6/4/2021 14:34

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 2:10 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/14/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266809
Sample Type: Test
Sample Source: BLT - 1
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.26	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:30
Manganese	0.02	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:30
Minerals						
Alkalinity	48	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	15.8	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:30
Chloride	30.6	mg/L	250	EPA 300.0	1	6/4/2021 18:28
Sodium	14.9	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:30
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 18:28
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 18:28
Total Kjeldahl Nitrogen as N	0.78	mg/L	No Limit Set	I4500NH3C-	0.6	6/7/2021 06:42
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	1.1	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 1:50 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266810
Sample Type: Test
Sample Source: BLT - 2
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.83 *	mg/L	0.3	EPA 200.5	0.01	6/11/2021 07:44
Manganese	0.52 *	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:31
Minerals						
Alkalinity	84	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	45.0	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:31
Chloride	144.2	mg/L	250	EPA 300.0	1	6/7/2021 18:06
Sodium	82.8	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:31
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 18:45
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 18:45
Total Kjeldahl Nitrogen as N	0.89	mg/L	No Limit Set	4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	6.00	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	10.1 *	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 1:40 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266811
Sample Type: Test
Sample Source: BLT - 3
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.31 *	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:33
Manganese	0.21 *	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:33
Minerals						
Alkalinity	78	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	52.4	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:33
Chloride	276.7 *	mg/L	250	EPA 300.0	1	6/7/2021 18:23
Sodium	161.6	mg/L	No Limit Set	EPA 200.5	1	6/9/2021 20:56
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 19:03
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 19:03
Total Kjeldahl Nitrogen as N	1.01	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	3.86	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	2.9	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 1:00 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266812
Sample Type: Test
Sample Source: BLT - 4
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.06	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:34
Manganese	0.01	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:34
Minerals						
Alkalinity	96	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	15.7	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:34
Chloride	145.9	mg/L	250	EPA 300.0	1	6/7/2021 18:41
Sodium	26.6	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:34
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 19:21
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 19:21
Total Kjeldahl Nitrogen as N	0.62	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	1.2	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 1:15 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266813
Sample Type: Test
Sample Source: BLT - 5
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	ND	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:35
Manganese	ND	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:35
Minerals						
Alkalinity	142	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	ND	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:35
Chloride	423.7 *	mg/L	250	EPA 300.0	1	6/7/2021 18:58
Sodium	ND	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:35
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 19:38
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 19:38
Total Kjeldahl Nitrogen as N	ND	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	1.14	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	1.0	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 12:55 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266814
Sample Type: Test
Sample Source: BLT - 6
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.71 *	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:35
Manganese	0.14 *	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:35
Minerals						
Alkalinity	64	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	40.0	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:35
Chloride	92.7	mg/L	250	EPA 300.0	1	6/7/2021 19:16
Sodium	45.6	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:35
Nutrient						
Nitrate as N	0.6	mg/L	10	EPA 300.0	0	6/4/2021 19:56
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 19:56
Total Kjeldahl Nitrogen as N	ND	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	1.57	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	2.0	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 12:35 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266815
Sample Type: Test
Sample Source: BLT - 7
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.28	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:36
Manganese	0.07 *	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:36
Minerals						
Alkalinity	62	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	42.4	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:36
Chloride	168.3	mg/L	250	EPA 300.0	1	6/7/2021 19:34
Sodium	81.8	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:36
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 20:13
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 20:13
Total Kjeldahl Nitrogen as N	ND	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	0.5	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 12:00 PM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266816
Sample Type: Test
Sample Source: BLT - 8
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.11	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:36
Manganese	0.02	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:36
Minerals						
Alkalinity	106	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	49.5	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:36
Chloride	288.1 *	mg/L	250	EPA 300.0	1	6/7/2021 19:51
Sodium	168.8	mg/L	No Limit Set	EPA 200.5	1	6/9/2021 20:56
Nutrient						
Nitrate as N	0.7	mg/L	10	EPA 300.0	0	6/4/2021 20:31
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 20:31
Total Kjeldahl Nitrogen as N	ND	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	1.43	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	0.8	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 11:50 AM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266817
Sample Type: Test
Sample Source: BLT - 10
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.09	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:37
Manganese	ND	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:37
Minerals						
Alkalinity	24	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	7.4	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:37
Chloride	48.3	mg/L	250	EPA 300.0	1	6/4/2021 20:49
Sodium	8.8	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:37
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 20:49
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 20:49
Total Kjeldahl Nitrogen as N	ND	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	3.57	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	0.9	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 11:30 AM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266818
Sample Type: Test
Sample Source: BLT - 11
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	1.00 *	mg/L	0.3	EPA 200.5	0.01	6/11/2021 08:0(
Manganese	0.53 *	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:38
Minerals						
Alkalinity	66	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	29.7	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:38
Chloride	95.0	mg/L	250	EPA 300.0	1	6/4/2021 21:59
Sodium	22.3	mg/L	No Limit Set	EPA 200.5	1	6/7/2021 20:38
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 21:59
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 21:59
Total Kjeldahl Nitrogen as N	0.60	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:4(
Organic Compounds						
Total Petroleum Hydrocarbons	1.00	mg/L	No Limit Set	1664A	1	6/14/2021 14:0(
Physical						
Turbidity	11.1 *	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 6/2/2021 10:55 AM
Receipt Date: 6/3/2021 10:15 AM
Report Date: 7/18/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 266819
Sample Type: Test
Sample Source: BLT - 12
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.44 *	mg/L	0.3	EPA 200.5	0.01	6/7/2021 20:38
Manganese	0.05	mg/L	0.05	EPA 200.5	0.01	6/7/2021 20:38
Minerals						
Alkalinity	158	mg/L	No Limit Set	EPA 310.1	5	6/4/2021 08:34
Calcium	43.0	mg/L	No Limit Set	EPA 200.5	0.01	6/7/2021 20:38
Chloride	377.2 *	mg/L	250	EPA 300.0	1	6/7/2021 20:09
Sodium	209.3	mg/L	No Limit Set	EPA 200.5	1	6/9/2021 20:56
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/4/2021 22:17
Nitrite as N	<0.1	mg/L	1	EPA 300.0	0.1	6/4/2021 22:17
Total Kjeldahl Nitrogen as N	0.74	mg/L	No Limit Set	I4500NH3C-	0.6	7/16/2021 15:46
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	6/14/2021 14:03
Physical						
Turbidity	4.2	NTU	5	EPA 180.1	0.05	6/5/2021 10:00

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

Data Report Number: CHM2021_149
Byram Lake -Spring 2021
Sampling Date: 6/2/21
Submission Date: 6/18/21

Prepared for:

Eric Orlowski
Water Resource & Sustainability Projects
The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
(845) 486-1551 (phone)
(845) 454-4026 (fax)
eorlowski@chazencompanies.com

Submitted by:

Gina Kehoe
Laboratory Director
Upstate Freshwater Institute
224 Midler Park Dr.
Syracuse, NY 13206
(315) 431-4962 ext.115 (phone)
(315) 431-4969 (fax)
ginak@upstatefreshwater.org

UFI	Client	System	Station	Matrix	Sampling	Sampling	Receive	Receive	tNH3	flags	TP	flags	TDP	flags	Chl_fl	flags
Lab ID	ID	Name	Name		Date	Time	Date	Time	(µgN/L)	(tNH3)	(µgP/L)	(TP)	(µgP/L)	(TDP)	(µg/L)	(Chl_fl)
210603001-001	BL3S	Byram Lake	BL	SW	6/2/21	9:50	6/3/21	11:41	35.7	F16	15.1		4.2	F16	4.0	
210603001-002	BL3M	Byram Lake	BL	SW	6/2/21	10:00	6/3/21	11:41	34.7	F16	14.6		4.0	F16	4.7	
210603001-003	BLT1	Byram Lake	BLT	SW	6/2/21	14:10	6/3/21	11:41	45.7		34.9		28.8			
210603001-004	BLT2	Byram Lake	BLT	SW	6/2/21	13:50	6/3/21	11:41	58.4		42.4		26.4			
210603001-005	BLT3	Byram Lake	BLT	SW	6/2/21	13:40	6/3/21	11:41	32.8	F16	61.8		16.1			
210603001-006	BLT4	Byram Lake	BLT	SW	6/2/21	13:30	6/3/21	11:41	48.9		43.0		33.2			
210603001-007	BLT5	Byram Lake	BLT	SW	6/2/21	13:15	6/3/21	11:41	36.8	F16	24.6		19.3			
210603001-008	BLT6	Byram Lake	BLT	SW	6/2/21	12:55	6/3/21	11:41	33.9	F16	31.1		15.5			
210603001-009	BLT7	Byram Lake	BLT	SW	6/2/21	12:35	6/3/21	11:41	35.9	F16	18.4		10.4			
210603001-010	BLT8	Byram Lake	BLT	SW	6/2/21	12:00	6/3/21	11:41	36.9	F16	17.1		10.4			
210603001-011	BLT10	Byram Lake	BLT	SW	6/2/21	11:50	6/3/21	11:41	38.1	F16	45.1		23.9			
210603001-012	BLT11	Byram Lake	BLT	SW	6/2/21	11:30	6/3/21	11:41	34.6	F16	72.7		12.2			
210603001-013	BLT12	Byram Lake	BLT	SW	6/2/21	10:55	6/3/21	11:41	35.7	F16	56.0	F26	17.4	F26		

Explanations of flags and LOQ/LOD are on the third Worksheet

Data Flag ID	Meaning of Flag
F2	Sample diluted to run within calibration curve
F3	Sample outside calibration curve, estimated value
F4	Lower than normal volume of sample analyzed
F5	Sample not digested/prepared properly
F6	Sample not preserved properly
F7	Sample received outside “acceptable” temperature limits
F8	Sample container inappropriate
F9	Sample container broken/cracked/leaked
F10	Sample taken from container other than specified analyte
F13	Data associated with failed duplicate
F14	sample received past holding time
F15	sample analyzed past holding time
F16	sample value less than LOQ, *but more than LOD, estimated value*
F17	Sample was Q6ed (sample should have been rerun but conditions exist that prevent a rerun)
F18	Sample likely/possibly contaminated before arrival
F19	No sample due to lab error
F20	No sample due to field error
F22	Sample value less than LOD
F23	Data associated with failed CCB
F24	Data associated with failed CCV
F25	Data associated with failed LCS
F26	Data associated with failed Matrix Spike
F27	Data associated with failed Reference
F28	Data associated with failed Matrix Spike Duplicate
F29	Data associated with failed Method Blank
F30	Data associated with Matrix Interferance

[1]LOQ= Limit of Quantification [2]LOD= Limit of Detection

Parameter	LOQ[1]	LOD[2]	Date Calculated	Method	Certified?
*tNH3	45 µgN/L	15 µgN/L	12/15/2020	SM 4500-NH3 H, 2011	Yes
*TP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	Yes
TP prep method			12/15/2020	SM 4500-P B(5), 2011	Yes
*TDP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.3 µgChl/L	0.1 µgChl/L	12/15/2020	USEPA 445.0 Rev. 1.2	No

*samples preserved and or filtered upon receipt

UFI is a NELAC/NYS-DOH ELAP accredited Laboratory; NY LAB ID 11462, EPA Lab Code NY 01276.
Upstate Freshwater Institute Laboratory Report
Data Report Number: CHM2021_049
UFI Contract Number: 564 Misc.
NS means no sample was received or requested.
Samples arrived preserved and on ice, in containers provided by UFI.
The attached samples were collected by Byram Lake staff according to their internal methods and protocols.
The reported results are pertinent to the samples as they were received at the laboratory.
This report is not to be reproduced, except in full, without the written approval of UFI.

Compiled by: Gina Kehoe
Gina Kehoe
Laboratory Director

Reviewed by: Gina Kehoe
Gina Kehoe
Laboratory Director

Date: 6/18/21

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 9:40 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269752
Sample Type: Test
Sample Source: BL-3S
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.02	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:13
Manganese	<0.005	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:13
Minerals						
Alkalinity	48	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:21
Calcium	18.0	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:12
Chloride	85.4	mg/L	250	EPA 300.0	1	7/28/2021 04:06
Magnesium	6.1	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:13
Sodium	33.4	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:13
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 04:06
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:47
Oxygen Demand						
Biochemical Oxygen Demand	1.31	mg/L	No Limit Set	SM5210B-23	1	7/28/2021 13:30
Physical						
Turbidity	3.1	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

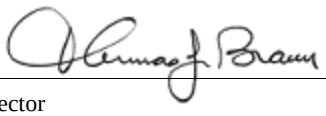
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 9:30 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269753
Sample Type: Test
Sample Source: BL-3M
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.02	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:12
Manganese	<0.005	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:12
Minerals						
Alkalinity	46	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:21
Calcium	18.1	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:12
Chloride	85.3	mg/L	250	EPA 300.0	1	7/28/2021 04:06
Magnesium	6.1	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:12
Sodium	33.5	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:12
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 04:06
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:47
Oxygen Demand						
Biochemical Oxygen Demand	1.32	mg/L	No Limit Set	SM5210B-23	1	7/28/2021 13:30
Physical						
Turbidity	1.3	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: 
Lab Director

CT Lic PH-0787 NY Lic 11706

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 3:00 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269754
Sample Type: Test
Sample Source: BLT - 1
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.31 *	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:12
Manganese	0.02	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:12
Minerals						
Alkalinity	66	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:21
Calcium	16.7	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:12
Chloride	29.0	mg/L	250	EPA 300.0	1	7/28/2021 04:06
Magnesium	5.9	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:12
Sodium	11.6	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:12
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 04:06
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:47
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	3.8	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 2:40 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269755
Sample Type: Test
Sample Source: BLT - 2
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.54 *	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:11
Manganese	0.35 *	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:11
Minerals						
Alkalinity	108	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:21
Calcium	42.9	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Chloride	144.5	mg/L	250	EPA 300.0	1	8/2/2021 23:01
Magnesium	11.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Sodium	76.7	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:11
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 04:06
Total Kjeldahl Nitrogen as N	0.85	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:47
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	12.3 *	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 2:25 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269756
Sample Type: Test
Sample Source: BLT - 3
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.05	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:11
Manganese	0.04	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:11
Minerals						
Alkalinity	96	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:21
Calcium	42.1	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Chloride	305.5 *	mg/L	250	EPA 300.0	1	8/2/2021 23:19
Magnesium	12.7	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Sodium	139.8	mg/L	No Limit Set	EPA 200.5	1	7/30/2021 14:01
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 06:09
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:47
Organic Compounds						
Total Petroleum Hydrocarbons	1.33	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	0.7	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

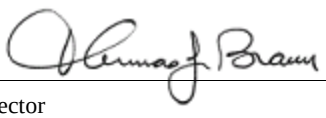
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 2:10 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269757
Sample Type: Test
Sample Source: BLT - 4
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.06	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:11
Manganese	ND	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:11
Minerals						
Alkalinity	116	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:22
Calcium	43.7	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Chloride	151.5	mg/L	250	EPA 300.0	1	8/2/2021 23:37
Magnesium	9.7	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:11
Sodium	76.5	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:11
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 06:09
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:47
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	1.1	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by:  CT Lic PH-0787 NY Lic 11706

Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 1:55 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269758
Sample Type: Test
Sample Source: BLT - 5
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	<0.005	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:1(
Manganese	<0.005	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:1(
Minerals						
Alkalinity	144	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:2
Calcium	119.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:1(
Chloride	485.8 *	mg/L	250	EPA 300.0	1	8/2/2021 23:54
Magnesium	26.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:1(
Sodium	162.5	mg/L	No Limit Set	EPA 200.5	1	7/30/2021 14:0
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 06:0
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:4
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:4
Physical						
Turbidity	1.2	NTU	5	EPA 180.1	0.05	7/28/2021 13:3(

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

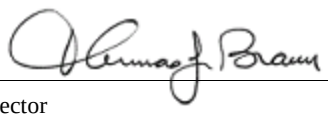
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 1:35 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269759
Sample Type: Test
Sample Source: BLT - 6
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.10	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:1(
Manganese	0.01	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:1(
Minerals						
Alkalinity	74	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:2
Calcium	35.9	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:1(
Chloride	102.6	mg/L	250	EPA 300.0	1	8/3/2021 01:05
Magnesium	8.4	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:1(
Sodium	44.5	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:1(
Nutrient						
Nitrate as N	0.61	mg/L	10	EPA 300.0	0	7/28/2021 06:2
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:4
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:4
Physical						
Turbidity	3.6	NTU	5	EPA 180.1	0.05	7/28/2021 13:3(

ND = Not Detected
* = Above Specified Limit

Report Approved by:  CT Lic PH-0787 NY Lic 11706

Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 1:20 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269760
Sample Type: Test
Sample Source: BLT - 7
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.09	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:09
Manganese	0.06 *	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:09
Minerals						
Alkalinity	64	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:22
Calcium	38.4	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:09
Chloride	169.1	mg/L	250	EPA 300.0	1	8/3/2021 01:22
Magnesium	8.8	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:09
Sodium	76.7	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:09
Nutrient						
Nitrate as N	0.54	mg/L	10	EPA 300.0	0	7/28/2021 10:45
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:48
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	1.8	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

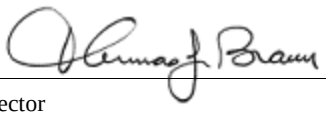
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 11:45 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269761
Sample Type: Test
Sample Source: BLT - 8
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.07	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:5
Manganese	<0.005	mg/L	0.05	EPA 200.5	0.01	7/29/2021 17:0
Minerals						
Alkalinity	150	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 10:2
Calcium	46.0	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:5
Chloride	285.2 *	mg/L	250	EPA 300.0	1	8/3/2021 01:40
Magnesium	8.1	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:5
Sodium	161.2	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:1
Nutrient						
Nitrate as N	1.2	mg/L	10	EPA 300.0	0	7/28/2021 19:3
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/13/2021 08:4
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:4
Physical						
Turbidity	2.2	NTU	5	EPA 180.1	0.05	7/28/2021 13:3

ND = Not Detected
* = Above Specified Limit

Report Approved by: 
Lab Director

CT Lic PH-0787 NY Lic 11706

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 12:30 PM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269762
Sample Type: Test
Sample Source: BLT - 9
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.09	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:59
Manganese	0.01	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:59
Minerals						
Alkalinity	114	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 12:17
Calcium	40.5	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:59
Chloride	189.0	mg/L	250	EPA 300.0	1	8/3/2021 01:57
Magnesium	8.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:59
Sodium	109.6	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:59
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 19:33
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:49
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	too high	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

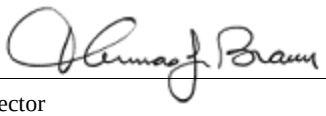
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 11:30 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269763
Sample Type: Test
Sample Source: BLT-10
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.04	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:5
Manganese	<0.005	mg/L	0.05	EPA 200.5	0.01	7/29/2021 17:0
Minerals						
Alkalinity	28	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 12:1
Calcium	10.0	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:5
Chloride	42.3	mg/L	250	EPA 300.0	1	7/28/2021 19:3
Magnesium	2.6	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:5
Sodium	11.8	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:5
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 19:3
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:4
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:4
Physical						
Turbidity	1.6	NTU	5	EPA 180.1	0.05	7/28/2021 13:3

ND = Not Detected
* = Above Specified Limit

Report Approved by:  CT Lic PH-0787 NY Lic 11706

Lab Director

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

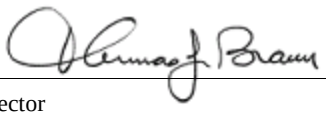
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 11:10 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269764
Sample Type: Test
Sample Source: BLT-11
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.02	mg/L	0.3	EPA 200.5	0.01	7/29/2021 17:0(
Manganese	0.02	mg/L	0.05	EPA 200.5	0.01	7/29/2021 17:0(
Minerals						
Alkalinity	82	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 12:1
Calcium	49.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 17:0(
Chloride	95.4	mg/L	250	EPA 300.0	1	7/28/2021 19:3
Magnesium	12.4	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 17:0(
Sodium	23.3	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 17:0(
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 19:3
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:4
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:4
Physical						
Turbidity	5.2 *	NTU	5	EPA 180.1	0.05	7/28/2021 13:3(

ND = Not Detected
* = Above Specified Limit

Report Approved by: 
Lab Director

CT Lic PH-0787 NY Lic 11706

AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270–9973

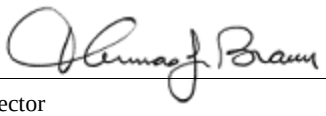
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 7/26/2021 10:35 AM
Receipt Date: 7/27/2021 10:30 AM
Report Date: 8/16/2021
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 269765
Sample Type: Test
Sample Source: BLT-12
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Metals						
Iron	0.02	mg/L	0.3	EPA 200.5	0.01	7/29/2021 16:15
Manganese	0.06 *	mg/L	0.05	EPA 200.5	0.01	7/29/2021 16:15
Minerals						
Alkalinity	202	mg/L	No Limit Set	EPA 310.1	5	7/28/2021 12:17
Calcium	60.3	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:17
Chloride	270.6 *	mg/L	250	EPA 300.0	1	8/3/2021 02:15
Magnesium	12.5	mg/L	No Limit Set	EPA 200.5	0.01	7/29/2021 16:17
Sodium	146.9	mg/L	No Limit Set	EPA 200.5	1	7/29/2021 16:15
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	7/28/2021 19:33
Total Kjeldahl Nitrogen as N	1.62	mg/L	No Limit Set	4500NH3C-	0.6	8/13/2021 08:48
Organic Compounds						
Total Petroleum Hydrocarbons	ND	mg/L	No Limit Set	1664A	1	7/30/2021 16:49
Physical						
Turbidity	41.9 *	NTU	5	EPA 180.1	0.05	7/28/2021 13:30

ND = Not Detected
* = Above Specified Limit

Report Approved by:  CT Lic PH-0787 NY Lic 11706

Lab Director

Data Report Number: CHM2021_097
Byram Lake -Summer, 2021
Sampling Date: 7/26/21
Submission Date: 8/27/21

Prepared for:

Eric Orlowski
Water Resource & Sustainability Projects
The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
(845) 486-1551 (phone)
(845) 454-4026 (fax)
eorlowski@chazencompanies.com

Submitted by:

Gina Kehoe
Laboratory Director
Upstate Freshwater Institute
224 Midler Park Dr.
Syracuse, NY 13206
(315) 431-4962 ext.115 (phone)
(315) 431-4969 (fax)
ginak@upstatefreshwater.org

UFI	Client	System	Station	Matrix	Sampling	Sampling	Receive	Receive	tNH3	flags	TP	flags	TDP	flags	Chl_fl	flags
Lab ID	ID	Name	Name		Date	Time	Date	Time	(µgN/L)	(tNH3)	(µgP/L)	(TP)	(µgP/L)	(TDP)	(µg/L)	(Chl_fl)
210727002-002	BL-3S	Byram Lake	BL	SW	7/26/21	9:40	7/27/21	12:05	<lod	F22	23.2		14.1		5.2	
210727002-003	BL-3M	Byram Lake	BL	SW	7/26/21	9:30	7/27/21	12:05	<lod	F22	18.7		3.6		5.0	
210727002-004	BLT1	Byram Lake	BLT	SW	7/26/21	15:00	7/27/21	12:05	<lod	F22	66.5		25.2			
210727002-005	BLT2	Byram Lake	BLT	SW	7/26/21	14:40	7/27/21	12:05	37.8	F16	142.8	F2	39.5			
210727002-006	BLT3	Byram Lake	BLT	SW	7/26/21	14:25	7/27/21	12:05	<lod	F22	47.7		31.6			
210727002-007	BLT4	Byram Lake	BLT	SW	7/26/21	14:10	7/27/21	12:05	<lod	F22	45.9		37.8			
210727002-008	BLT5	Byram Lake	BLT	SW	7/26/21	13:55	7/27/21	12:05	<lod	F22	28.7		17.1			
210727002-009	BLT6	Byram Lake	BLT	SW	7/26/21	13:35	7/27/21	12:05	<lod	F22	51.6		29.3			
210727002-010	BLT7	Byram Lake	BLT	SW	7/26/21	13:20	7/27/21	12:05	<lod	F22	18.6		16.1			
210727002-011	BLT8	Byram Lake	BLT	SW	7/26/21	11:45	7/27/21	12:05	<lod	F22	40.9		23.1			
210727002-012	BLT9	Byram Lake	BLT	SW	7/26/21	12:30	7/27/21	12:05	<lod	F22	492.8	F2	6.7			
210727002-013	BLT10	Byram Lake	BLT	SW	7/26/21	11:30	7/27/21	12:05	<lod	F22	46.7		35.0	F26		
210727002-014	BLT11	Byram Lake	BLT	SW	7/26/21	11:10	7/27/21	12:05	<lod	F22	102.2	F2	11.0			
210727002-015	BLT12	Byram Lake	BLT	SW	7/26/21	10:35	7/27/21	12:05	136.6		431.5	F2	60.2			

Explanations of flags and LOQ/LOD are on the third Worksheet

Data Flag ID	Meaning of Flag
F2	Sample diluted to run within calibration curve
F3	Sample outside calibration curve, estimated value
F4	Lower than normal volume of sample analyzed
F5	Sample not digested/prepared properly
F6	Sample not preserved properly
F7	Sample received outside “acceptable” temperature limits
F8	Sample container inappropriate
F9	Sample container broken/cracked/leaked
F10	Sample taken from container other than specified analyte
F13	Data associated with failed duplicate
F14	sample received past holding time
F15	sample analyzed past holding time
F16	sample value less than LOQ, *but more than LOD, estimated value*
F17	Sample was Q6ed (sample should have been rerun but conditions exist that prevent a rerun)
F18	Sample likely/possibly contaminated before arrival
F19	No sample due to lab error
F20	No sample due to field error
F22	Sample value less than LOD
F23	Data associated with failed CCB
F24	Data associated with failed CCV
F25	Data associated with failed LCS
F26	Data associated with failed Matrix Spike
F27	Data associated with failed Reference
F28	Data associated with failed Matrix Spike Duplicate
F29	Data associated with failed Method Blank
F30	Data associated with Matrix Interferance

[1]LOQ= Limit of Quantification [2]LOD= Limit of Detection

Parameter	LOQ[1]	LOD[2]	Date Calculated	Method	Certified?
*tNH3	45 µgN/L	15 µgN/L	12/15/2020	SM 4500-NH3 H, 2011	Yes
*TP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	Yes
TP prep method			12/15/2020	SM 4500-P B(5), 2011	Yes
*TDP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.3 µgChl/L	0.1 µgChl/L	12/15/2020	USEPA 445.0 Rev. 1.2	No

*samples preserved and or filtered upon receipt

UFI is a NELAC/NYS-DOH ELAP accredited Laboratory; NY LAB ID 11462, EPA Lab Code NY 01276.
Upstate Freshwater Institute Laboratory Report
Data Report Number: CHM2021_097
UFI Contract Number: 564 Misc.
NS means no sample was received or requested.
Samples arrived preserved and on ice, in containers provided by UFI.
The attached samples were collected by Byram Lake staff according to their internal methods and protocols.
The reported results are pertinent to the samples as they were received at the laboratory.
This report is not to be reproduced, except in full, without the written approval of UFI.

Compiled by: Gina Kehoe
Gina Kehoe
Laboratory Director

Reviewed by: Gina Kehoe
Gina Kehoe
Laboratory Director

Date: 8/27/21

Invoice 39027

Technical Report

prepared for:

Aqua Environmental Lab
56 Church Hill Road
Newtown CT, 06470
Attention: T. Braun

Report Date: 10/22/2021
Client Project ID: 70707.21 (Byram Lake)
York Project (SDG) No.: 21J0636

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 10/22/2021
Client Project ID: 70707.21 (Byram Lake)
York Project (SDG) No.: 21J0636

Aqua Environmental Lab
56 Church Hill Road
Newtown CT, 06470
Attention: T. Braun

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 14, 2021 and listed below. The project was identified as your project: **70707.21 (Byram Lake)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
21J0636-01	BL-3S	Water	10/13/2021	10/14/2021
21J0636-02	BL-3M	Water	10/13/2021	10/14/2021
21J0636-03	BLT-1	Water	10/13/2021	10/14/2021
21J0636-04	BLT-2	Water	10/13/2021	10/14/2021
21J0636-05	BLT-3	Water	10/13/2021	10/14/2021
21J0636-06	BLT-4	Water	10/13/2021	10/14/2021
21J0636-07	BLT-5	Water	10/13/2021	10/14/2021
21J0636-08	BLT-6	Water	10/13/2021	10/14/2021
21J0636-09	BLT-7	Water	10/13/2021	10/14/2021
21J0636-10	BLT-8	Water	10/13/2021	10/14/2021
21J0636-11	BLT-9	Water	10/13/2021	10/14/2021
21J0636-12	BLT-10	Water	10/13/2021	10/14/2021
21J0636-13	BLT-11	Water	10/13/2021	10/14/2021

General Notes for York Project (SDG) No.: 21J0636

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/22/2021

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: BL-3S

York Sample ID: 21J0636-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 10:45 am	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**20.7**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:40	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:19	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:19	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**34.1**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:40	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**80.9**		mg/L	2.50	5	EPA 300.0	10/18/2021 14:23	10/18/2021 20:31	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 17:41	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: BL-3S

York Sample ID: 21J0636-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 10:45 am	10/14/2021

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**44**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	ND		mg/L	3.0	2.96	SM 5210 B	10/15/2021 08:32	10/20/2021 11:15	JAG
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.730**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/15/2021 16:08	10/20/2021 11:10	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**0.839**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BL-3M

York Sample ID: 21J0636-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 11:00 am	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**20.6**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:43	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BL-3M

York Sample ID: 21J0636-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 11:00 am	10/14/2021

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:22	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**0.0336**		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:22	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**34.6**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:43	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**77.4**		mg/L	2.50	5	EPA 300.0	10/18/2021 14:23	10/18/2021 20:53	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 18:45	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	44		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	ND		mg/L	3.0	2.96	SM 5210 B	10/15/2021 08:32	10/20/2021 11:15	JAG
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BL-3M

York Sample ID: 21J0636-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 11:00 am	10/14/2021

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.680**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/15/2021 16:08	10/20/2021 11:10	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Turbidity

Log-in Notes: PRES

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**1.47**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-1

York Sample ID: 21J0636-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 1:10 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**18.7**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:46	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:25	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:25	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**14.5**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:46	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: BLT-1 **York Sample ID:** 21J0636-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 1:10 pm	10/14/2021

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**26.2**		mg/L	0.500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 19:29	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 19:29	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**72**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.670**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/15/2021 16:08	10/20/2021 11:10	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.552	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**2.50**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

YORK
ANALYTICAL LABORATORIES INC

Sample Information

Client Sample ID: BLT-2 **York Sample ID:** 21J0636-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:15 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**70.0**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:49	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:28	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**1.00**		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:28	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**120**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:49	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**262**		mg/L	5.00	10	EPA 300.0	10/18/2021 14:23	10/18/2021 21:15	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0513**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 19:51	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: BLT-2 **York Sample ID:** 21J0636-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:15 pm	10/14/2021

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**160**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.430**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.552	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**4.67**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-3 **York Sample ID:** 21J0636-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:35 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**43.7**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:52	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-3 **York Sample ID:** 21J0636-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:35 pm	10/14/2021

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:31	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:31	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**173**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:52	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**307**		mg/L	5.00	10	EPA 300.0	10/18/2021 14:23	10/18/2021 22:22	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 20:12	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**110**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**1.35**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons **Log-in Notes:** PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-3 **York Sample ID:** 21J0636-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:35 pm	10/14/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	**1.44**	OG-1	mg/L	0.552	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**19.8**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-4 **York Sample ID:** 21J0636-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:45 pm	10/14/2021

Calcium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**48.9**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:56	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:34	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:34	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**79.9**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:56	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: BLT-4 **York Sample ID:** 21J0636-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 2:45 pm	10/14/2021

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**166**		mg/L	5.00	10	EPA 300.0	10/18/2021 14:23	10/18/2021 22:44	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0681**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 21:19	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**120**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.520**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**1.01**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-5 **York Sample ID:** 21J0636-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:00 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**113**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:59	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:37	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:37	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**199**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 19:59	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**499**		mg/L	10.0	20	EPA 300.0	10/19/2021 15:52	10/20/2021 13:45	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0704**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:13	10/14/2021 21:41	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: BLT-5 **York Sample ID:** 21J0636-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:00 pm	10/14/2021

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**160**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	ND	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**2.47**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-6 **York Sample ID:** 21J0636-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:15 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**36.3**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:02	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-6 **York Sample ID:** 21J0636-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:15 pm	10/14/2021

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:41	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:41	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**45.4**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:02	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**109**		mg/L	2.50	5	EPA 300.0	10/18/2021 14:23	10/19/2021 10:47	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.733**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 08:16	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**76**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.400**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-6 **York Sample ID:** 21J0636-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:15 pm	10/14/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.552	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**1.75**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-7 **York Sample ID:** 21J0636-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:30 pm	10/14/2021

Calcium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**45.4**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:11	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:50	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**0.0431**		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:50	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**89.0**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:11	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: BLT-7 **York Sample ID:** 21J0636-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:30 pm	10/14/2021

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**200**		mg/L	5.00	10	EPA 300.0	10/18/2021 14:23	10/19/2021 11:09	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.452**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 08:38	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**80**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	ND	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**3.09**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-8 **York Sample ID:** 21J0636-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:45 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**37.1**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:14	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:54	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:54	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	155		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:14	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**216**		mg/L	5.00	10	EPA 300.0	10/18/2021 14:23	10/19/2021 11:30	MAO
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.869**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 09:00	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: BLT-8 **York Sample ID:** 21J0636-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:45 pm	10/14/2021

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**130**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	**0.450**	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**0.262**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-9 **York Sample ID:** 21J0636-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:55 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**37.0**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:17	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-9 **York Sample ID:** 21J0636-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:55 pm	10/14/2021

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:57	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**0.00679**		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 11:57	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7 **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**103**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:17	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**162**		mg/L	2.50	5	EPA 300.0	10/18/2021 14:23	10/19/2021 11:52	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.0715**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 09:21	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**110**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen **Log-in Notes:** PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	ND	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons **Log-in Notes:** PRES **Sample Notes:**

Sample Information

Client Sample ID: BLT-9 **York Sample ID:** 21J0636-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 3:55 pm	10/14/2021

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A Certifications: NELAC-NY10854,NJDEP,CTDOH	10/15/2021 13:05	10/15/2021 17:07	MAO

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**16.8**		NTU	0.100	1	EPA 180.1 Certifications: CTDOH,NELAC-NY10854	10/15/2021 08:32	10/15/2021 08:32	AD

Sample Information

Client Sample ID: BLT-10 **York Sample ID:** 21J0636-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 4:15 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**10.6**		mg/L	0.0556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2021 08:53	10/21/2021 20:21	EM

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2021 15:01	10/22/2021 12:00	EM

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2021 15:01	10/22/2021 12:00	EM

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**15.7**		mg/L	0.556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2021 08:53	10/21/2021 20:21	EM

Sample Information

Client Sample ID: BLT-10 **York Sample ID:** 21J0636-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 4:15 pm	10/14/2021

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**26.2**		mg/L	0.500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 09:43	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.242**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 09:43	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**28**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	ND	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	**2.65**	OG-1	mg/L	0.552	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**14.2**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample Information

Client Sample ID: BLT-11 **York Sample ID:** 21J0636-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 4:40 pm	10/14/2021

Calcium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**48.7**		mg/L	0.0556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:24	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Iron, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	10/21/2021 15:01	10/22/2021 12:06	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Manganese, Dissolved by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 200.7	10/21/2021 15:01	10/22/2021 12:06	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sodium by EPA 200.7

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**28.3**		mg/L	0.556	1	EPA 200.7	10/20/2021 08:53	10/21/2021 20:24	EM
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Chloride

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**107**		mg/L	2.50	5	EPA 300.0	10/18/2021 14:23	10/19/2021 12:14	MAO
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**0.161**		mg/L	0.0500	1	EPA 300.0	10/14/2021 16:15	10/15/2021 10:05	MAO
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: BLT-11 **York Sample ID:** 21J0636-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0636	70707.21 (Byram Lake)	Water	October 13, 2021 4:40 pm	10/14/2021

Alkalinity, Total

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**96**		mg/L	2.0	1	SM 2320B	10/20/2021 09:04	10/20/2021 15:28	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Kjeldahl Nitrogen

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	ND	CONT-01	mg/L	0.400	1	SM 4500-N Org D	10/19/2021 15:55	10/20/2021 14:16	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Petroleum Hydrocarbons

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons	ND	OG-1	mg/L	0.513	1	EPA 1664A	10/15/2021 13:05	10/15/2021 17:07	MAO
							Certifications: NELAC-NY10854,NJDEP,CTDOH			

Turbidity

Log-in Notes: PRES **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	**1.63**		NTU	0.100	1	EPA 180.1	10/15/2021 08:32	10/15/2021 08:32	AD
							Certifications: CTDOH,NELAC-NY10854			

Sample and Data Qualifiers Relating to This Work Order

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
PRES	Sample was received with no preservative and was preserved upon receipt at the laboratory. If for metals, the sample was allowed to sit for 18-24 hours before analysis.
OG-1	The sample was received unpreserved for Oil & Grease. This is non-compliant with preservation requirements.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
CONT-01	Analysis was performed on a sample from an improperly preserved container.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

1 OF 1

CHAIN OF CUSTODY RECORD

The Chazen Companies

21J0636

Dutchess County Office:
21 Fox Street, Suite 201
Poughkeepsie, New York 12601
Phone: (845)454-3980 Fax: (845)454-4026

Capital District Office:
547 River Street
Troy, New York 12180
Phone: (518) 273-0055 Fax: (518) 273-8391

Westchester Office:
1 North Broadway, Suite 803
White Plains, New York 10601
Phone: (914) 997-8510

North Country Office:
20 Elm Street, Suite 100
Glens Falls, New York 12801
Phone: (518) 812-0513 Fax: (518) 812-2205

Attention: ERIC ORLOWSKI

Project Name: BYRAM LAKE

Location: MOUNT KISCO, NY

Project Number: 70707.21 Task: 100

Project Manager: RUSSELL URBAN-MEAD

PO Number: 0923

Laboratory: AQUA ENVIRONMENTAL 203-270-9973

Turn Around Time: STANDARD

Report Deliverable Category: (Summary Report) ASP Cat A ASP Cat B

EDD: NYSDEC EQUIS Excel

(Circle Items Needed)

SAMPLE ID	DATE	TIME	Composite	Grab Sample	Matrix *	Total Number of Containers	Size	40mL Vial	Liter	500 mL	250 mL	125 mL	8 oz. Soil Jar	4 oz. Soil Jar	2 oz. Soil Jar	BOD	300 mL BOD			ANALYSES REQUESTED
							Type		CG	PL	PL						PL			
							Preserv.		—	—	—						—			
BL-3S	10/13/2021	1045		X	SW	3				1	1						1			ALKALINITY, Na, Cl, Cl⁻, NO_3, TKN, TURBIDITY, BOD, Dissolved Fe, Mn
BL-3M		1100		X						1	1						1			, BOD
BLT-1		1310		X					1	1	1									, TKN
BLT-2		1415		X					1	1	1									
BLT-3		1435		X					1	1	1									
BLT-4		1445		X					1	1	1									
BLT-5		1500		X					1	1	1									
BLT-6		1515		X					1	1	1									
BLT-7		1530		X					1	1	1									
BLT-8		1545		X					1	1	1									

* - Please Identify Matrix: GW - Groundwater SW - Surface Water DW - Drinking Water SS - Soil Sample SD - Sediment Sample SL - Sludge PS - Process Sample Other (Please Specify)

Container Type: CG = Clear Glass AG = Amber Glass PL = Plastic

Preservative: H = Hydrochloric Acid S = Sulfuric Acid N = Nitric Acid SH = Sodium Hydroxide ST = Sodium Thiosulfate M = Methanol I = Ice

Relinquished By:
Name: [signature] Please Print Date: 10/13/2021 Time: 1845 Company: CHAZEN

Received By:
Name: FEDEX Please Print Date: 10/14/21 Time: 10:40 Company: AEL

In Lab
Received By:
Name: Michael Capisarda Please Print Date: 10/14/21 Time: 11:40 Company: York 3.6°C

PLEASE NOTE: Pink Sheet - Chazen Copy Yellow Sheet - Laboratory File Copy White Top Sheet - Report Copy (Please return along with completed Lab Results)

CHAIN OF CUSTODY RECORD

The Chazen Companies

21J0636

Dutchess County Office: 21 Fox Street, Suite 201, Poughkeepsie, New York 12601, Phone: (845)454-3980 Fax: (845)454-4026

Capital District Office: 547 River Street, Troy, New York 12180, Phone: (518) 273-0055 Fax: (518) 273-8391

Westchester Office: 1 North Broadway, Suite 803, White Plains, New York 10601, Phone: (914) 997-8510

North Country Office: 20 Elm Street, Suite 100, Glens Falls, New York 12801, Phone: (518) 812-0513 Fax: (518) 812-2205

Attention: ERIC ORLOWSKI

Project Name: BYRAM LAKE

Location: MOUNT KISCO, NY

Project Number: 70707.21 Task: 100

Project Manager: RUSSELL URBAN-MEAD

PO Number: 09213

Laboratory: AQUA ENVIRONMENTAL 203-270-9973

Turn Around Time: STANDARD

Report Deliverable Category: (Summary Report) ASP Cat A ASP Cat B

EDD: NYSDEC EQUIS Excel

(Circle Items Needed)

SAMPLE ID	DATE	TIME	Composite	Grab Sample	Matrix *	Total Number of Containers	Size	Type	Preserv.	40mL Vial	Liter	500 mL	250 mL	125 mL	8 oz. Soil Jar	4 oz. Soil Jar	2 oz. Soil Jar	ANALYSES REQUESTED
BLT-9	10/13/2021	1555		X	SW	3		CG	—		1	1	1					Alkalinity, Na, Ca, Cl⁻, NO_3, TKN, Turbidity, TPH, Dissolved Fe, Mn
BLT-10	↓	1615		X	↓	↓		PL	—		1	1	1					
BLT-11	↓	1640		X	↓	↓		PL	—		1	1	1					

* Please Identify Matrix: GW - Groundwater SW - Surface Water DW - Drinking Water SS - Soil Sample SD - Sediment Sample SL - Sludge PS - Process Sample Other (Please Specify)

Container Type: CG = Clear Glass AG = Amber Glass PL = Plastic

Preservative: H = Hydrochloric Acid S = Sulfuric Acid N = Nitric Acid SH = Sodium Hydroxide ST = Sodium Thiosulfate M = Methanol I = Ice

Relinquished By: Name: EJ Orlowski (Please Print) Date: 10/13/2021 Time: 1845 Company: CHAZEN

Received By: Name: FEDEX (Please Print) Date: 10/14/21 Time: 10:20 Company: AEL

Received By: In Lab Name: Michael Rapisarda (Please Print) Date: 10/14/21 Time: 11:40 Company: York 3.6°C

PLEASE NOTE: Pink Sheet - Chazen Copy Yellow Sheet - Laboratory File Copy White Top Sheet - Report Copy (Please return along with completed Lab Results)

Data Report Number: CHM2021_154
Byram Lake Nutrient Analysis, Fall 2021
Sampling Date: 10/13/21
Submission Date: 11/9/21

Prepared for:

Eric Orlowski
Water Resource & Sustainability Projects
The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
(845) 486-1551 (phone)
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Submitted by:

Gina Kehoe
Laboratory Director
Upstate Freshwater Institute
224 Midler Park Dr.
Syracuse, NY 13206
(315) 431-4962 ext.115 (phone)
(315) 431-4969 (fax)
ginak@upstatefreshwater.org

UFI	Client	System	Station	Matrix	Sampling	Sampling	Receive	Receive	tNH3	flags	TP	flags	TDP	flags	Chl_fl	flags
Lab ID	ID	Name	Name		Date	Time	Date	Time	(µgN/L)	(tNH3)	(µgP/L)	(TP)	(µgP/L)	(TDP)	(µg/L)	(Chl_fl)
211014002-001	BL-3S	Byram Lake	BL	SW	10/13/21	10:45	10/14/21	11:29	999.3		8.8		3.5		5.9	
211014002-002	BL-3M	Byram Lake	BL	SW	10/13/21	11:00	10/14/21	11:29	41.5	F16	13.7		4.5		5.2	
211014002-003	BLT1	Byram Lake	BLT	SW	10/13/21	13:10	10/14/21	11:29	37.6	F16	30.6		25.8			
211014002-004	BLT2	Byram Lake	BLT	SW	10/13/21	14:15	10/14/21	11:29	60.4		52.9		8.9			
211014002-005	BLT3	Byram Lake	BLT	SW	10/13/21	14:35	10/14/21	11:29	134.0		110.8	F2	15.9			
211014002-006	BLT4	Byram Lake	BLT	SW	10/13/21	14:45	10/14/21	11:29	72.2		13.6		12.9			
211014002-007	BLT5	Byram Lake	BLT	SW	10/13/21	15:00	10/14/21	11:29	65.0		16.7		15.1			
211014002-008	BLT6	Byram Lake	BLT	SW	10/13/21	15:15	10/14/21	11:29	20.3	F16	32.4		16.1			
211014002-009	BLT7	Byram Lake	BLT	SW	10/13/21	15:30	10/14/21	11:29	42.6	F16	27.7		5.9			
211014002-010	BLT8	Byram Lake	BLT	SW	10/13/21	15:45	10/14/21	11:29	41.2	F16	16.2		12.4			
211014002-011	BLT9	Byram Lake	BLT	SW	10/13/21	15:55	10/14/21	11:29	60.0		375.5	F2	7.6			
211014002-012	BLT10	Byram Lake	BLT	SW	10/13/21	16:15	10/14/21	11:29	44.1	F16	44.4		21.1			
211014002-013	BLT11	Byram Lake	BLT	SW	10/13/21	16:40	10/14/21	11:29	50.3		22.4		10.6			

Explanations of flags and LOQ/LOD are on the third Worksheet

Data Flag ID	Meaning of Flag
F2	Sample diluted to run within calibration curve
F3	Sample outside calibration curve, estimated value
F4	Lower than normal volume of sample analyzed
F5	Sample not digested/prepared properly
F6	Sample not preserved properly
F7	Sample received outside “acceptable” temperature limits
F8	Sample container inappropriate
F9	Sample container broken/cracked/leaked
F10	Sample taken from container other than specified analyte
F13	Data associated with failed duplicate
F14	sample received past holding time
F15	sample analyzed past holding time
F16	sample value less than LOQ, *but more than LOD, estimated value*
F17	Sample was Q6ed (sample should have been rerun but conditions exist that prevent a rerun)
F18	Sample likely/possibly contaminated before arrival
F19	No sample due to lab error
F20	No sample due to field error
F22	Sample value less than LOD
F23	Data associated with failed CCB
F24	Data associated with failed CCV
F25	Data associated with failed LCS
F26	Data associated with failed Matrix Spike
F27	Data associated with failed Reference
F28	Data associated with failed Matrix Spike Duplicate
F29	Data associated with failed Method Blank
F30	Data associated with Matrix Interferance

[1]LOQ= Limit of Quantification [2]LOD= Limit of Detection

Parameter	LOQ[1]	LOD[2]	Date Calculated	Method	Certified?
**tNH3	45 µgN/L	15 µgN/L	12/15/2020	SM 4500-NH3 H, 2011	Yes
*TP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	Yes
TP prep method			12/15/2020	SM 4500-P B(5), 2011	Yes
*TDP	4.5 µgP/L	1.5 µgP/L	12/15/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.3 µgChl/L	0.1 µgChl/L	12/15/2020	USEPA 445.0 Rev. 1.2	No

*samples preserved and or filtered upon receipt

**Tnh3 samples are not distilled prior to analysis

UFI is a NELAC/NYS-DOH ELAP accredited Laboratory; NY LAB ID 11462, EPA Lab Code NY 01276.
Upstate Freshwater Institute Laboratory Report
Data Report Number: CHM2021_154
UFI Contract Number: 564 Misc.
NS means no sample was received or requested.
Samples arrived preserved and on ice, in containers provided by UFI.
The attached samples were collected by Byram Lake staff according to their internal methods and protocols.
The reported results are pertinent to the samples as they were received at the laboratory.
This report is not to be reproduced, except in full, without the written approval of UFI.

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Date: 11/9/21