2020 Annual Report

Byram Reservoir Monitoring Program

Water Supply for the Village of Mt. Kisco
Situated in the Towns of Bedford and North Castle
Westchester County, New York

January 2021

THE Chazen COMPANIES®
Proud to be Employee Owned
Engineers
Land Surveyors
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Landscape Architects

Prepared for:

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

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Chazen Project #: 70707.20

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1.0 INTRODUCTION AND PRINCIPAL 2020 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, The Chazen Companies (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 2020 by Chazen, 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 mgl/L for the first time. In 2020, however, all reservoir sodium results were between 36 and 38 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. A single set of samples from one tributary identified elevated phosphorous and ammonia, which were not repeated in a subsequent sampling event.

During 2020, the water level in Byram Reservoir was near or at spillway capacity during the Spring site visit and at lower levels during the Summer and Fall. Any existing Eurasian milfoil was not readily visible to Chazen. 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. On the basis of stream gaging occurring on tributary BLT-1, less flow entered Byram Reservoir in 2020 than during many prior years. Appearing to correlate to this

precipitation record, reservoir water quality also became more basic (higher pH) and exhibited modestly higher electrical conductivity, alkalinity, and chloride during this dry season period.

1.1 Project History

Chazen 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 Chazen 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 2020. 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

No program modifications occurred in 2020. Three routine seasonal sampling events were completed in 2020 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.

As a reminder, 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.

And 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.

1.3 Sampling Locations

Reservoir sampling and monitoring in 2020 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 2020 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 occurs 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

Chazen completed water condition sampling at the Byram Reservoir and twelve surrounding tributaries during 2020. Descriptions of the sampling methodologies are reviewed below.

The 2020 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 2020 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 COVID-19 pandemic delayed a preferred Spring date for early-season sampling.

The following sampling events occurred in 2020.

Delayed Spring Monitoring
June 10, 2020 (reservoir and tributaries)

Summer Monitoring
August 17, 2020 (reservoir and tributaries)

Autumn Monitoring
October 27, 2020 (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 using a YSI multi-parameter field probe lowered through the water column. Chazen 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).

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 t 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.

Composite zooplankton sampling has historically been scheduled for the Summer sampling event and accordingly occurred during our August 2020 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. 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.

Chazen 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 2020. It is unlikely to be observed in the future since Chazen 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.

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 2020 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 2020 from Byram Reservoir identify generally stable aquatic conditions. Nitrogen and phosphorus concentrations remain 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 2020, all reservoir sodium results were between 36 and 38 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 2020 visits, Eurasian milfoil was less noticeable, perhaps due to recent deeper water conditions.

Detail: The following sections review individual analytes evaluated in 2020 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 2020, pH levels in the reservoir were basic, with values over the year ranging from 7.56 to 8.24 (see Appendix B, Table 1). Compared to the long-term average (7.62), the average pH value during 2020 (7.82) 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 Chazen had previously found to contain marble fragments. The more basic (high pH values over 8) in 2020 however occurred primarily in the October 2020 monitoring period when watershed conditions were generally quite dry, suggesting water quality pH influences from 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 12.8 to 23.9°C at BL-3 during 2020. The historic record suggests the temperatures observed during 2020 were in normal seasonal ranges (Appendix B, Table 2).

Conductivity – Reservoir conductivity values ranged between 353.6 and 404.2 µS/cm with an average of 370.7 µS/cm (Appendix B, Table 3), a level higher than the average since 2002 (317 µS/cm). October 2020 electrical conductivity data were higher than during the earlier two 2020 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 3.46 and 8.83 in 2020, 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. Four of nine DO values recorded in 2020 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 2020 data are consistent with previously-recorded reservoir values.

Turbidity – The laboratory turbidity data (Appendix B, Table 5) were below 2.0 NTU for all 2020 samples, indicating relatively clear water conditions during 2020 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 2.44 meters to 3.20 meters during 2020. These readings are within historic ranges. Figure 4 provides a summary of these data.

Laboratory Data:

Table 1: Total Phosphorus, Byram Reservoir, 2020

Location Name	Total Phosphorus (µgP/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	10.6	13.3	12.3
BL-3M	13.5	16.2	11.6

Total Phosphorus – Total phosphorus data recorded in 2020 (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, 2020**

Location Name	Soluble Reactive Phosphorus (µgP/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	8.6	6.6	6.6
BL-3M	4.6	3.5	6.3

Soluble Reactive Phosphorus – Soluble reactive (dissolved) phosphorus concentrations (Table 2) averaged 6.03 µgP/L in 2020, lower than the long term average (9.97 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, 2020

Location Name	Nitrate (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	<0.5	<0.5	<0.5
BL-3M	<0.5	<0.5	<0.5

Nitrate – Nitrate was not detected in any of the 2020 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, 2020

Location Name	Total Kjeldahl Nitrogen (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	< 0.6	< 0.6	< 0.6
BL-3M	1.23	< 0.6	< 0.6

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 2020 sampling period were mostly non-detectable (< 0.6 mg/L) with one detection (in June) of 1.23 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, 2020

Location Name	Ammonia ($mgNH_3/L$)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	0.0202	0.0352	0.014
BL-3M	< 0.010	0.0262	0.0103

Ammonia – Ammonia concentrations within Byram Reservoir ranged from < 0.010 to 0.0352 mg/L during 2020 (Table 5), and were below average relative to the historic record (Appendix D1, Table 9). Keeping ammonia levels below 0.3 mg/L may help alleviate algal blooms.

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, 2020

Location Name	Sodium (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	37.8	36.9	37.7
BL-3M	38.0	36.6	37.9

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, no samples in 2020 exceeded this concentration.

Table 7: Chloride, Byram Reservoir, 2020

Location Name	Chloride (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	79.3	76.6	88.7
BL-3M	79.0	76.7	88.5

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 2020 ranged between 76.6 and 88.7 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 October 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 perhaps associated also with a moderate October increase in Alkalinity noted in Table 8 below.

Table 8: Alkalinity, Byram Reservoir, 2020

Location Name	Alkalinity (mg/L CaCO3)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	44	44	50
BL-3M	48	46	46

Alkalinity – Alkalinity concentrations in 2020 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, 2020

Location Name	BOD_5 (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	2.6	1.39	3.42
BL-3M	2.4	1.77	1.78

Biochemical Oxygen Demand, 5-Day (BOD_5) – BOD_5 findings in 2020 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, 2020

Location Name	Chlorophyll A (µg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	2.3	5.2	3.6
BL-3M	2.8	5.1	4.6

Chlorophyll A –Chlorophyll A is a pigment associated with photosynthetic activity and used as an indicator of algal biomass. Sampling results from 2020 ranged between 2.3 and 5.2 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, 2020

Location Name	Calcium (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	25.1	24.4	24.9
BL-3M	25.4	24.4	25.2

Calcium – Calcium is an essential aquatic nutrient for zooplankton survival and a component of water hardness. Calcium concentrations ranged from 24.4 to 25.4 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 2020 was 24.9 mg/L and the overall average concentration since 2018 was 26.9 mg/L.

Zooplankton – A zooplankton sample was collected at the BL-2 location on August 17, 2020. The data are presented in Appendix E. During the 2020 sampling event, a total of ten 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 2020 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 Chazen observed extensive Eurasian milfoil mats in Byram Reservoir in 2017 although limit prior presence is likely. Since 2016 Chazen 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 2020 site visits. Reservoir water levels were also generally higher in 2020 than those in 2016 when the extensive milfoil presence was noted although dry conditions were also present in the second half of the summer of 2020.

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 estimated. The BLT-1 tributary flow gaging station was established in 2009 and has been fully operational during 2020, requiring only routine cleaning and/or re-calibration during 2020 site visits. Historical and recent BLT-1 flow gaging data from 2020 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, Chazen 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 2020 sampling visit, however, the 2020 record documents that overall water flow through this tributary was lower in 2020 than in most prior years, likely reflecting unusually dry conditions present during the late summer of 2020.

Electrical conductivity data gathered during 2020 from BLT-1 were variable, with an approximate average of 380 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 2020 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. While a modest increase in tributary Phosphorus levels was noted in the Fall of 2019, concentrations returned to near the historical average in 2020. The data collected during 2020 are posted in Appendix C or within the text below. A single sampling event in BLT-1 identified elevated ammonia and phosphorous entering the lake, which was not repeated.

Details: Below are brief discussions of individual quality parameters.

Field Data

pH – During 2020, tributary pH values ranged from 6.92 to 8.62 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 2020 (Appendix C Table 2) were within previously recorded ranges, reflecting seasonal variance in air temperatures.

Conductivity – Electrical conductivity values ranged from 131.8 to 1,652 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 and BLT-8 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 2020 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 2020 (Appendix C, Table 4) are consistent with historic data. The lower DO levels coincide as expected with periods of warmer stream flow. Limited oxygen deficient conditions were noted in Tributaries BLT-6, 7, 8 and 11 in June 2020. DO concentrations returned to more typical higher levels in the summer and fall. No October 2020 dissolved oxygen data are available due to instrument difficulties.

Turbidity – Samples were collected during 2020 for laboratory analysis of turbidity (Appendix C, Table 5). Turbidity readings ranged from 0.3 to 9.7 NTU. 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 12: Total Phosphorus, Byram Reservoir Tributaries, 2020

Location Name	Total Phosphorus (µgP/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	45.1	315	16.8
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	31.5	40.4	24.4
BLT-5	17.9	22.9	25.2
BLT-6	25.7	21.4	25.0
BLT-7	11.2	7.1	10.8
BLT-8	26.5	44.6	19.0
BLT-9	--	--	--
BLT-10	32.4	20.1	18.0
BLT-11	14.3	32.1	10.5
BLT-12	--	--	--

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 2020 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 315 ug/L was detected in BLT-1 in August 2020 which was not repeated in October.

Table 13: Soluble Reactive Phosphorus, Byram Reservoir Tributaries, 2020

Location Name	Soluble Reactive Phosphorus (µgP/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	36.3	152	37.2
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	27.2	34.2	21.0
BLT-5	14.5	21.7	20.9
BLT-6	15.2	19.5	20.2
BLT-7	4.7	6.6	6.5
BLT-8	13.2	16.4	15.6
BLT-9	--	--	--
BLT-10	28.6	19.7	9.8
BLT-11	8.7	16.4	7.6
BLT-12	--	--	--

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 2020 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. An elevated soluble phosphorous value of 152 ug/L was detected in BLT-1 in August 2020 which was not repeated in October

Table 14: Nitrate, Byram Reservoir Tributaries, 2020

Location Name	Nitrate (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	0.54	< 0.50	< 0.50
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	0.50	< 0.50	< 0.50
BLT-5	< 0.50	< 0.50	< 0.50
BLT-6	0.98	< 0.50	< 0.50
BLT-7	0.72	< 0.50	< 0.50
BLT-8	0.70	< 0.50	< 0.50
BLT-9	--	--	--
BLT-10	0.59	0.60	< 0.50
BLT-11	0.65	< 0.50	< 0.50
BLT-12	--	--	--

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 2020 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 15: Total Kjeldahl Nitrogen (TKN), Byram Reservoir Tributaries, 2020

Location Name	TKN (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	0.64	0.84	0.68
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	< 0.60	< 0.60	< 0.60
BLT-5	< 0.60	< 0.60	< 0.60
BLT-6	0.60	0.70	< 0.60
BLT-7	< 0.60	< 0.60	< 0.60
BLT-8	0.62	< 0.60	< 0.60
BLT-9	--	--	--
BLT-10	< 0.60	< 0.60	< 0.60
BLT-11	< 0.60	< 0.60	< 0.60
BLT-12	--	--	--

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

Total Kjeldahl Nitrogen (TKN) – During 2020, 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 16: Ammonia, Byram Reservoir Tributaries, 2020

Location Name	Ammonia (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	0.0488	0.353	< 0.010
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	0.0319	< 0.010	0.0151
BLT-5	0.0152	< 0.010	< 0.010
BLT-6	0.0109	< 0.010	< 0.010
BLT-7	0.0191	< 0.010	< 0.010
BLT-8	0.0233	< 0.010	0.0322
BLT-9	--	--	--
BLT-10	0.0246	< 0.010	< 0.010
BLT-11	0.0194	0.0195	< 0.010
BLT-12	--	--	--

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

Ammonia – Ammonia concentrations during 2020 were generally consistent with prior data and were less than 0.1 mg/L, with the exception of one sample (BLT-1, 8/17/2020). 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 2020 were similar. A modest ammonia increase was detected in BLT-1 in August 2020 which was not repeated in October

Table 17: Sodium, Byram Reservoir Tributaries, 2020

Location Name	Sodium (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	12.1	6.5	13.4
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	82.4	78.9	67.9
BLT-5	196.2	186.4	189.5
BLT-6	44.9	89.0	82.4
BLT-7	90.1	88.8	79.6
BLT-8	165.3	165.3	137.6
BLT-9	--	--	--
BLT-10	13.3	22.7	30.4
BLT-11	34.8	29.4	28.4
BLT-12	--	--	--

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

Sodium – With the exception of four samples, all 2020 sodium results exceeded 20 mg/L, and collectively all 2020 samples averaged 80.6 mg/L. Long-term average sodium levels have been gradually increasing in most tributaries since 2002. This is visually presented on Figure 5.

Tributaries BLT-5 and BLT-8 exhibited the highest 2020 sodium concentrations, between 137.6 and 196.2 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 18: Chloride, Byram Reservoir Tributaries, 2020

Location Name	Chloride (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	16.9	9.7	28.7
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	160.7	137.5	130.7
BLT-5	447.9	444.7	426.5
BLT-6	101.0	174.5	169.6
BLT-7	171.6	170.7	168.1
BLT-8	218.6	188.5	145.3
BLT-9	--	--	--
BLT-10	18.8	37.0	73.6
BLT-11	112.4	107.6	114.4
BLT-12	--	--	--

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

Chloride – Three 2020 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 19: Total Petroleum Hydrocarbons, Byram Reservoir Tributaries, 2020

Location Name	TPH (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	< 1.0	1.0	< 1.0
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	2.52	< 1.0	< 1.0
BLT-5	< 1.0	< 1.0	< 1.0
BLT-6	< 1.0	< 1.0	< 1.0
BLT-7	< 1.0	< 1.0	< 1.0
BLT-8	1.41	< 1.0	< 1.0
BLT-9	--	--	--
BLT-10	< 1.0	< 1.0	< 1.0
BLT-11	< 1.0	< 1.0	1.25
BLT-12	--	--	--

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, three times across the 2020 samples 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-1 (August), BLT-4 (June), BLT-8 (June) and BLT-11 (October).

Table 20: Alkalinity, Byram Reservoir Tributaries, 2020

Location Name	Alkalinity (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	56	78	86
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	126	146	144
BLT-5	142	146	158
BLT-6	78	108	124
BLT-7	76	90	92
BLT-8	122	134	158
BLT-9	--	--	--
BLT-10	26	30	40
BLT-11	66	84	88
BLT-12	--	--	--

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

Alkalinity – Alkalinity concentrations in 2020 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 21: Calcium, Byram Reservoir Tributaries, 2020

Location Name	Calcium (mg/L)		
	6/10/2020	8/17/2020	10/27/2020
BLT-1	17.8	24.8	24.9
BLT-2	--	--	--
BLT-3	--	--	--
BLT-4	60.6	63.8	63.2
BLT-5	129.2	115.8	111.3
BLT-6	42.5	66.8	64.8
BLT-7	50.8	54.6	55.1
BLT-8	45.5	37.6	34.8
BLT-9	--	--	--
BLT-10	10.5	15.2	21.0
BLT-11	52.0	60.1	61.4
BLT-12	--	--	--

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 2020, ranging from 10.5 to 129.2 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, 2020 results appear similar to 2018 and 2019 data (Appendix D, Table 32).

4.0 2020 SUMMARY

Water quality data collected in 2020 from Byram Reservoir have been summarized in Section 1.0, 3.1 and 3.2.2 and are not repeated here.

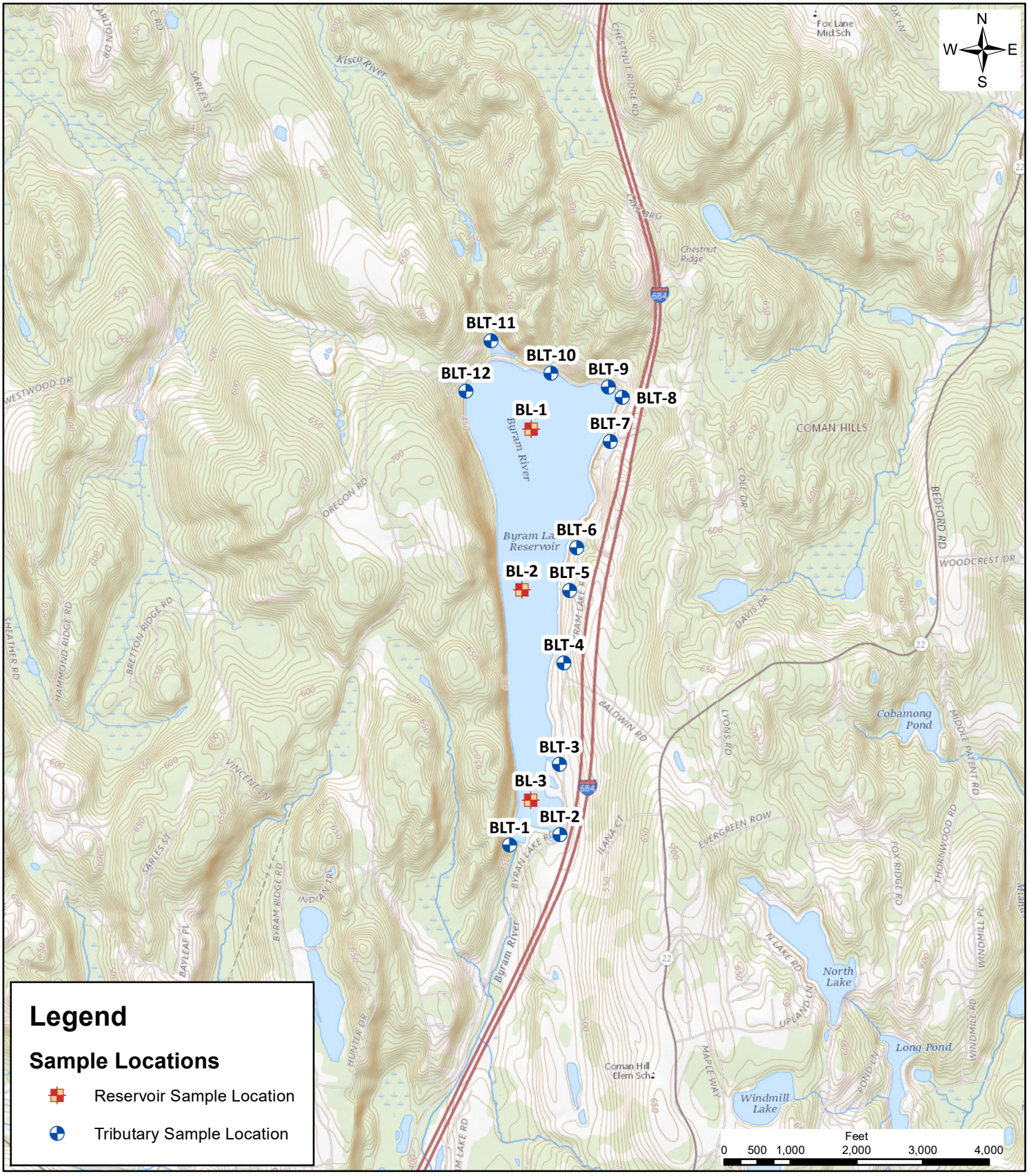
Water flow entering Byram Reservoir in 2020 may have been lower than in many recent prior years, on the basis of gage data from tributary BLT-1.

A 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.

5.0 WATER QUALITY MANAGEMENT RECOMMENDATIONS

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

FIGURES



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Byram Lake

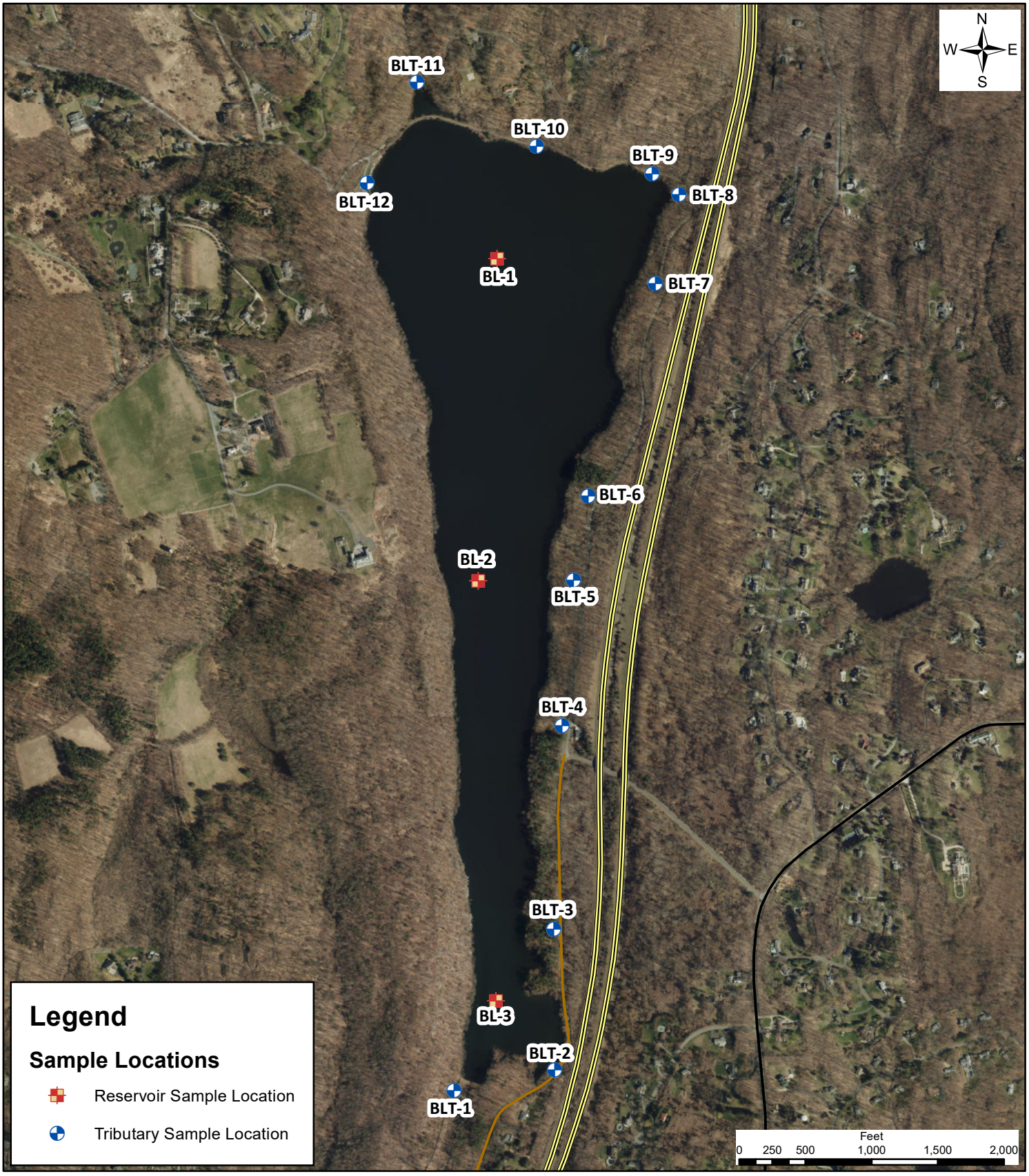
Figure 1: Site Location Map with Sampling Locations

Byram Lake Road
Towns of Mount Kisco, Westchester County, New York

Source: USGS "The National Map" topographic base mapping (server-based), accessed 08 January 2021; other site features drawn by Chazen based on field work conducted 2007-2020.

Drawn:	EJO
Date:	January 2021
Scale:	1:24,000
Project:	70707.20
Figure:	1

Document Path: Z:\projects\70700-70799\70707.20 Byram Lake 2020\Annual Report\Figures\Base Files\70707_F1_Topo_01 2020.mxd



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Byram Lake

Figure 2: Orthophoto Map with Sampling Locations

Byram Lake Road
Towns of Mount Kisco, Westchester County, New York

Source: USGS "The National Map" topographic base mapping (server-based), accessed 08 January 2021; other site features drawn by Chazen based on field work conducted 2007-2020.

Drawn:	EJO
Date:	January 2021
Scale:	1:12,000
Project:	70707.20
Figure:	2

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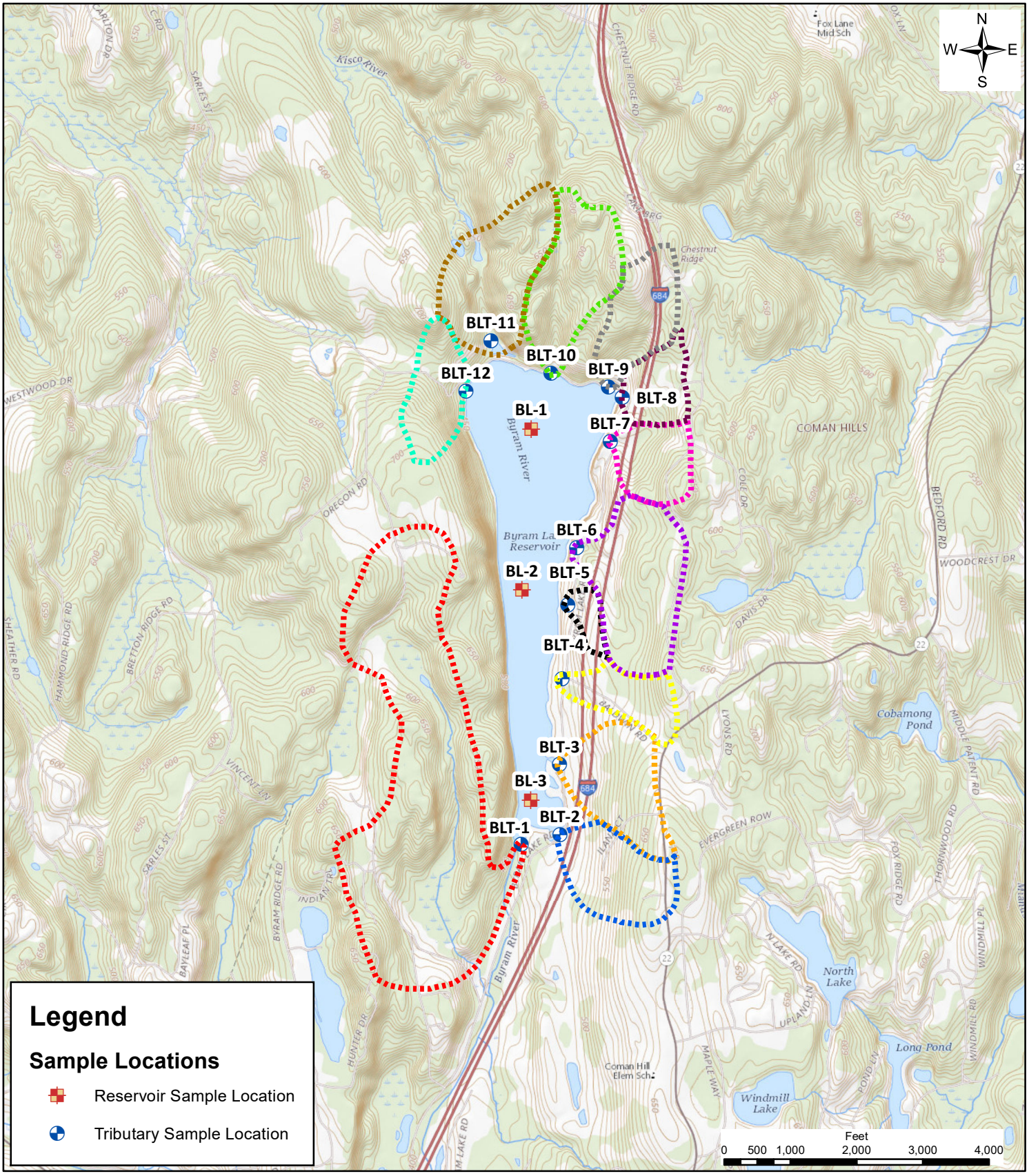

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Byram Lake

Figure 3: Watershed Map

Byram Lake Road
Towns of Mount Kisco, Westchester County, New York

Source: USGS "The National Map" topographic base mapping (server-based), accessed 08 January 2021; other site features drawn by Chazen based on field work conducted 2007-2020.

Drawn:	EJO
Date:	January 2021
Scale:	1:24,000
Project:	70707.20
Figure:	3

Document Path: Z:\projects\70700-70799\70707.20 Byram Lake 2020\Annual Report\Figures\Base Files\70707_F3_Watershed_01 2021.mxd

Figure 4 - Byram Lake Secchi Disk Readings

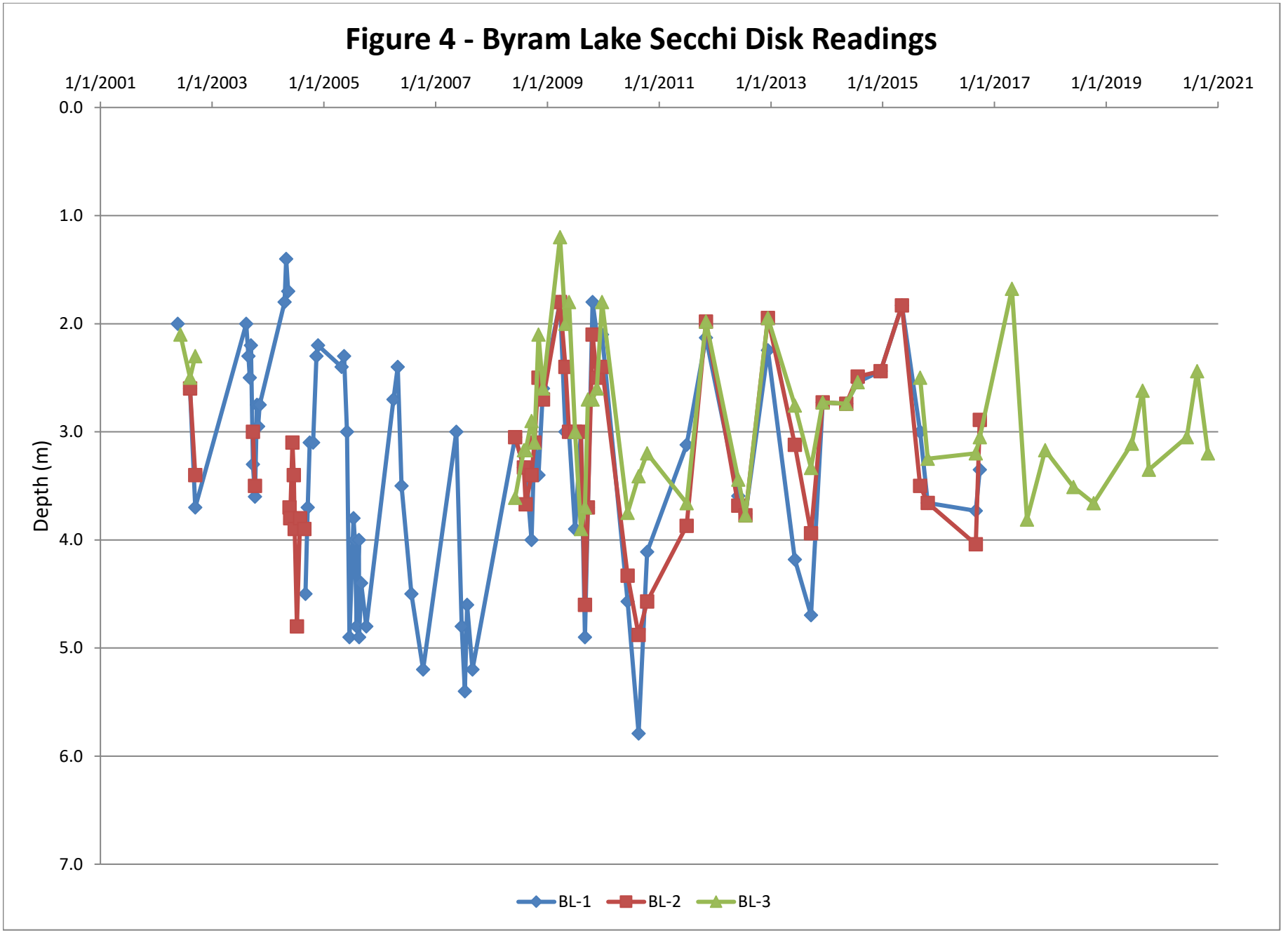
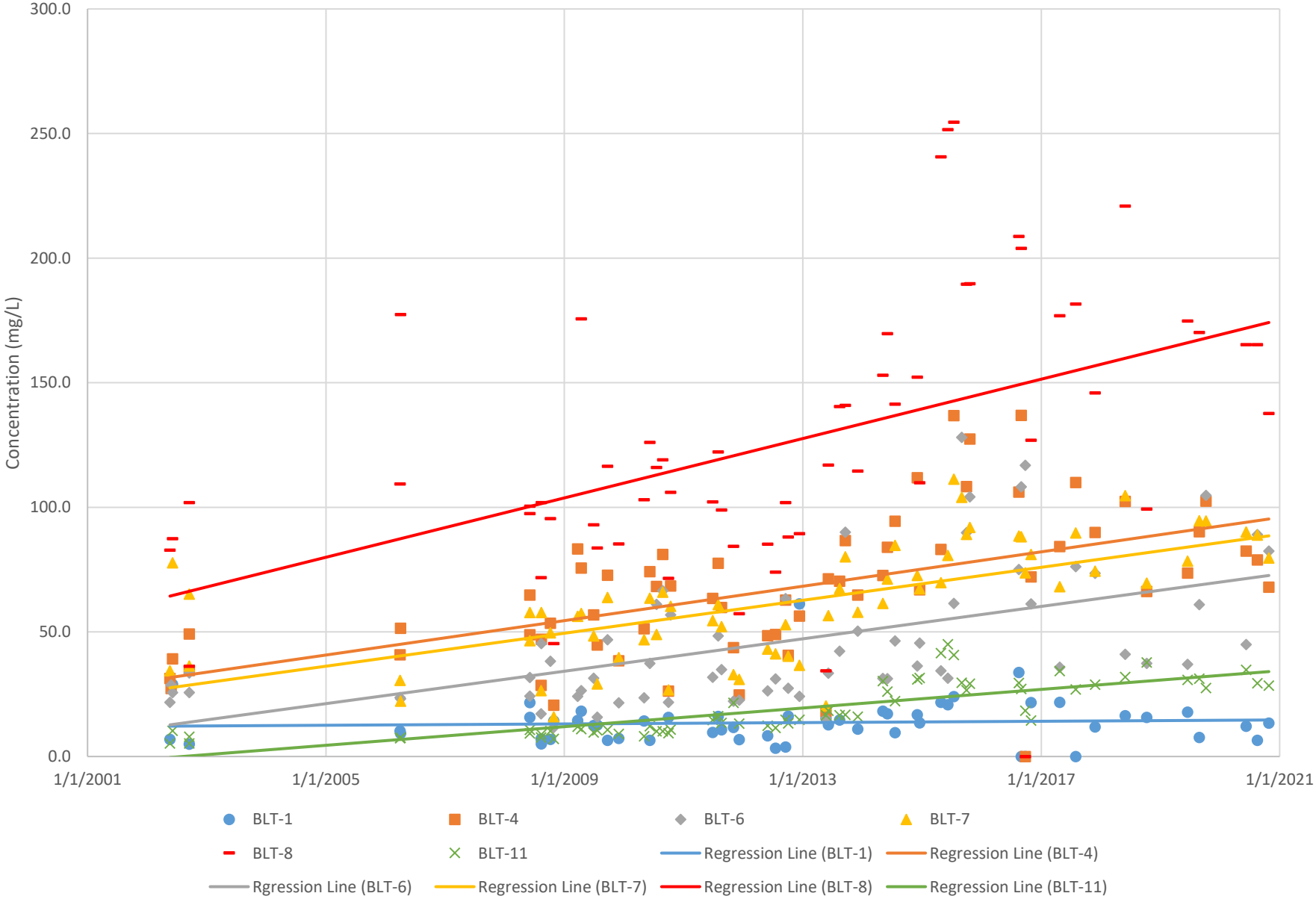
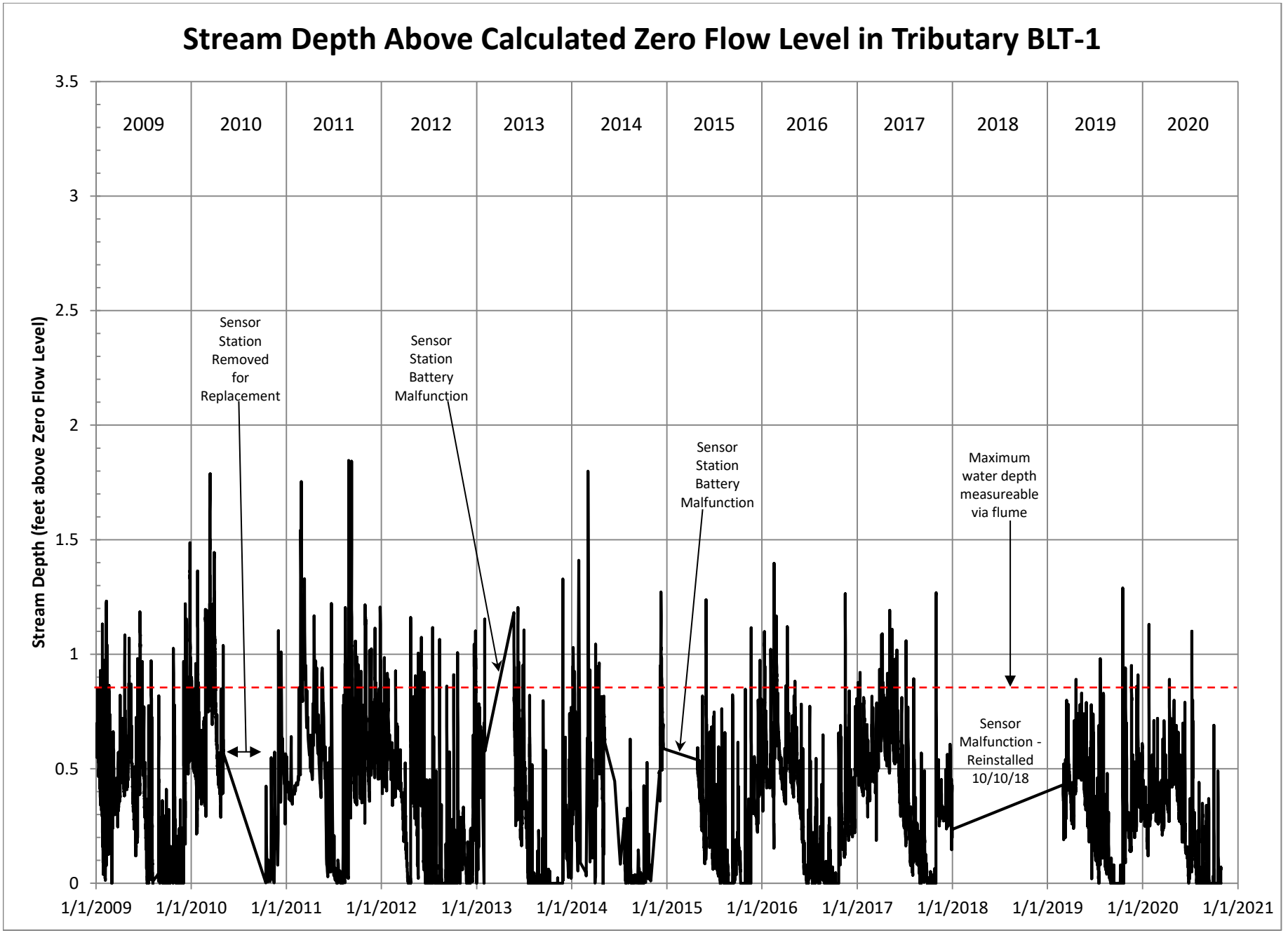


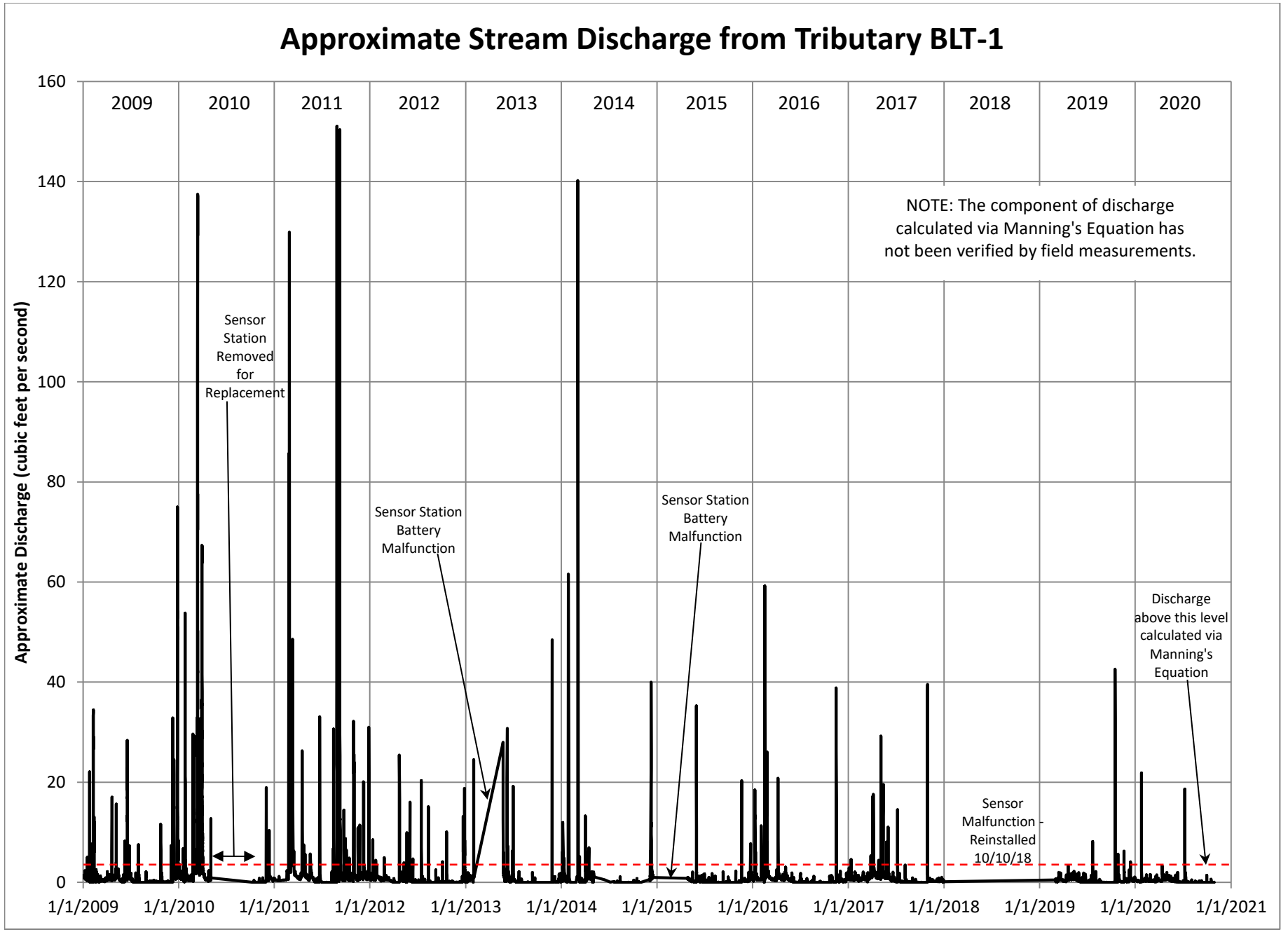
Figure 5: Sodium Concentrations in Select Tributaries

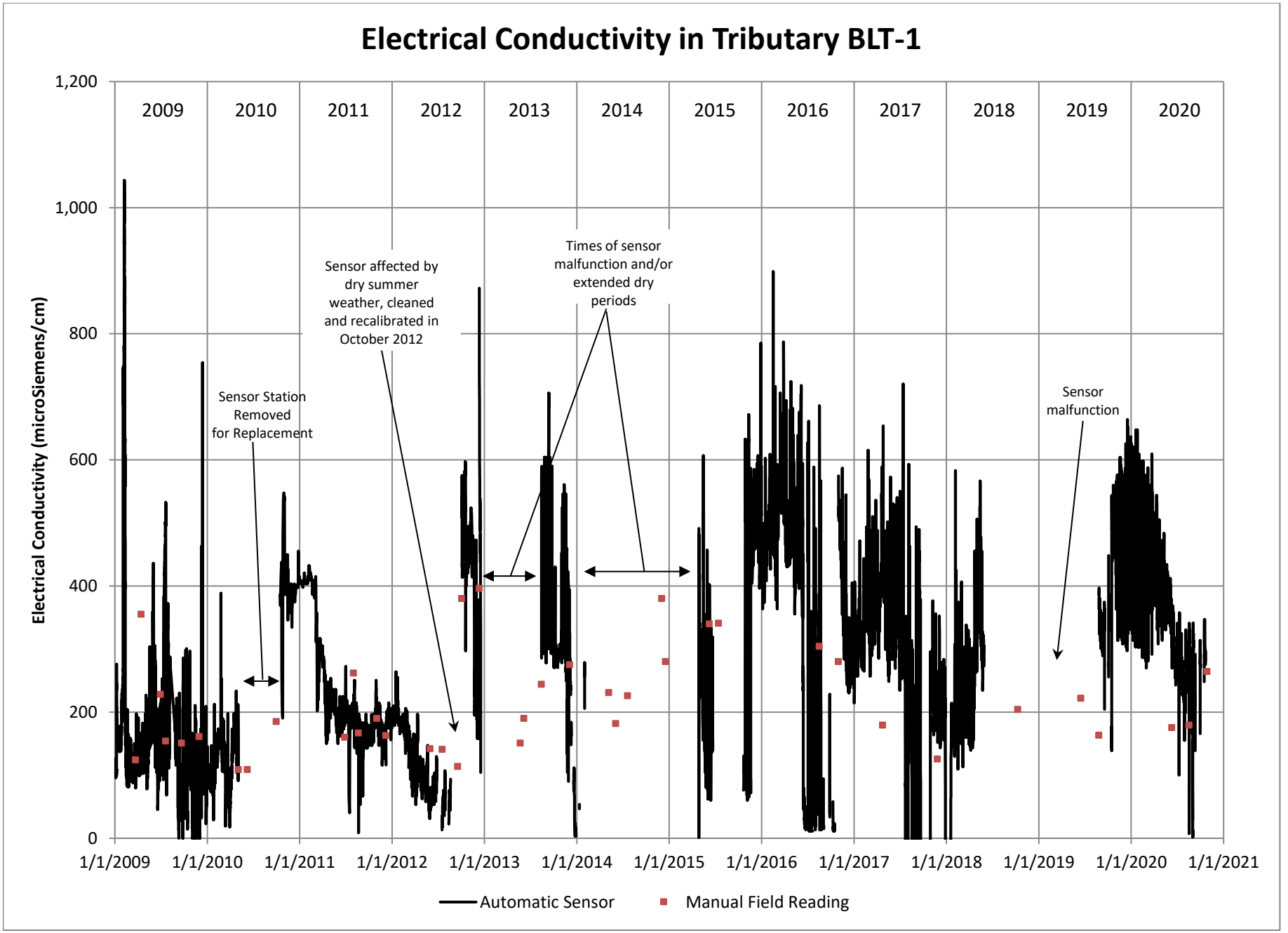


APPENDIX A:

BLT-1 TRIBUTARY GAGING DATA


Stream Depth Above Calculated Zero Flow Level in Tributary BLT-1
Stream Depth (feet above Zero Flow Level)
3.5
3
2.5
2
1.5
1
0.5
0
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
Sensor Station Removed for Replacement
Sensor Station Battery Malfunction
Sensor Station Battery Malfunction
Maximum water depth measureable via flume
Sensor Malfunction - Reinstalled 10/10/18
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021


Approximate Stream Discharge from Tributary BLT-1
Approximate Discharge (cubic feet per second)
160
140
120
100
80
60
40
20
0
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
NOTE: The component of discharge calculated via Manning's Equation has not been verified by field measurements.
Sensor Station Removed for Replacement
Sensor Station Battery Malfunction
Sensor Station Battery Malfunction
Discharge above this level calculated via Manning's Equation
Sensor Malfunction - Reinstalled 10/10/18


Electrical Conductivity in Tributary BLT-1
1,200
1,000
800
600
400
200
0
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
Electrical Conductivity (microSiemens/cm)
Sensor Station Removed for Replacement
Sensor affected by dry summer weather, cleaned and recalibrated in October 2012
Times of sensor malfunction and/or extended dry periods
Sensor malfunction
1/1/2009
1/1/2010
1/1/2011
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
1/1/2019
1/1/2020
1/1/2021
Automatic Sensor
Manual Field Reading

APPENDIX B:

BYRAM RESERVOIR PHYSICAL WATER QUALITY MEASUREMENTS

Appendix B, Table 1
Byram Lake
Routine Water Quality Measurements
pH (SU)
June through October 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3.0	7.78	7.72	8.24
BL-3.1	7.74	7.71	8.13
BL-3.2	7.75	7.64	8.04
BL-3.3	7.73	7.56	7.93
BL-3.4	7.75	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3.0	22.7	23.9	12.8
BL-3.1	21.7	23.6	12.8
BL-3.2	21.4	23.5	12.8
BL-3.3	20.6	23.2	12.8
BL-3.4	17.6	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3.0	355.5	358.7	404.2
BL-3.1	355.6	358.5	404.1
BL-3.2	355.4	358.6	402.4
BL-3.3	354.9	358.9	398.9
BL-3.4	353.6	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3.0	3.46	8.83	NM
BL-3.1	3.67	8.31	NM
BL-3.2	3.71	8.04	NM
BL-3.3	3.96	7.64	NM
BL-3.4	4.91	NW	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.

Appendix B, Table 5
Byram Lake
Routine Water Quality Measurements
Turbidity (NTU)
June through October 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3S	0.7	1.2	0.9
BL-3M	0.9	1.3	1.4

NOTES:

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

2) Turbidity was analyzed at Aqua Environmental Laboratory from 2015 through 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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
BL-3	3.05	2.44	3.20

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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	7.28	7.25	7.71
BLT-2	NW	NW	NW
BLT-3	NW	NW	NW
BLT-4	6.92	8.23	8.69
BLT-5	6.93	8.04	7.91
BLT-6	7.69	7.31	8.11
BLT-7	7.48	7.12	7.67
BLT-8	7.43	7.23	8.02
BLT-9	NW	NW	NW
BLT-10	8.11	7.63	7.86
BLT-11	7.68	7.51	7.81
BLT-12	NW	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	19.4	19.4	10.7
BLT-2	NW	NW	NW
BLT-3	NW	NW	NW
BLT-4	17.1	17.0	10.1
BLT-5	12.3	14.3	9.9
BLT-6	14.3	16.8	9.8
BLT-7	12.9	13.0	9.0
BLT-8	16.5	16.7	9.9
BLT-9	NW	NW	NW
BLT-10	14.5	14.4	9.8
BLT-11	18.7	18.5	10.3
BLT-12	NW	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	175.5	179.4	264.5
BLT-2	NW	NW	NW
BLT-3	NW	NW	NW
BLT-4	768	762	791
BLT-5	1,652	1,586	1,500
BLT-6	498.4	818	883
BLT-7	751	792	765
BLT-8	973	942	888
BLT-9	NW	NW	NW
BLT-10	131.8	219.4	330.8
BLT-11	519.5	556	632.4
BLT-12	NW	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	4.96	5.57	NM
BLT-2	NW	NW	NW
BLT-3	NW	NW	NW
BLT-4	5.11	9.40	NM
BLT-5	7.00	12.20	NM
BLT-6	2.81	10.30	NM
BLT-7	3.29	13.20	NM
BLT-8	2.51	9.50	NM
BLT-9	NW	NW	NW
BLT-10	4.22	10.10	NM
BLT-11	1.96	10.91	NM
BLT-12	NW	NW	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 2020

Location Name	Date		
	6/10/2020	8/17/2020	10/27/2020
	Spring - Dry	Summer - Dry	Fall - Dry
BLT-1	1.3	2.2	0.6
BLT-2	NW	NW	NW
BLT-3	NW	NW	NW
BLT-4	0.8	1.4	0.3
BLT-5	1.0	1.2	0.5
BLT-6	2.1	0.1	0.6
BLT-7	2.9	1.3	1.0
BLT-8	9.7*	6.9*	0.9
BLT-9	NW	NW	NW
BLT-10	3.9	0.4	0.6
BLT-11	1.3	3.1	0.6
BLT-12	NW	NW	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 Contaminant Limit (

APPENDIX D:

HISTORIC TRIBUTARY AND RESERVOIR DATA

Appendix D, Table 1
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 1
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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 (2002-2019)

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 (2002-2019)

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.
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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 (2002-2019)

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
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
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
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
BL-3.3	7.86	8.47	--	8.34	8.47	8.36	8.10	8.41	7.73	7.56	7.93
BL-3.4	7.80	**8.75**	--	8.32	8.45	8.31	8.09	--	7.75	--	--
BL-3.5	--	--	--	8.29	--	8.28	--	--	--	--	--

NOTES:
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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 2
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 2
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 2
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

Location	Temperature (°C)															
Name	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.

Appendix D, Table 2
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

Location	Temperature (°C)													
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	6/17/2019	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 (2002-2019)

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.

Appendix D, Table 2
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

Location Name	Temperature (°C)												
	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 (2002-2019)

Location Name	Temperature (°C)															
	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 (2002-2019)

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
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
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
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
BL-3.3	11.9	24.4	--	20.2	19.8	21.3	24.0	17.8	20.6	23.2	12.8
BL-3.4	11.7	24.4	--	16.6	19.6	21.2	23.7	--	17.6	--	--
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 (2002-2019)

Location	Conductivity (uS/cm)													
Name	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.

Appendix D, Table 3
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 3
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

Location	Conductivity (uS/cm)													
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	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.

Appendix D, Table 3
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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
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
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
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
BL-3.3	278.6	397.2	--	381.8	355.4	366.6	371.2	358.2	354.9	358.9	398.9
BL-3.4	277.1	398.2	--	349.4	337.2	368.5	372.0	--	353.6	--	--
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 (2002-2019)

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:
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Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

Location Name	Dissolved Oxygen (mg/L)														
	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:
1. -- = no available data.
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3. NM = Not Measured, due to instrument malfunction.

Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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.
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For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
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Appendix D, Table 4
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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
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
BL-3.1	14.92	6.91	5.10	8.77	5.64	5.36	5.21	8.67	**3.67**	8.81	NM
BL-3.2	14.67	6.56	5.18	9.21	5.75	5.61	6.05	8.31	**3.71**	8.04	NM
BL-3.3	14.67	6.27	--	9.87	5.84	5.51	4.9	7.62	**3.96**	7.64	NM
BL-3.4	14.02	6.30	--	10.94	5.86	5.40	4.80	--	4.91	--	--
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 (2002-2019)

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.

Appendix D, Table 5
Byram Lake
Seasonal Water Quality Analyses
Reservoir Field Parameters
Complete Data Record (2002-2019)

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 (2002-2019)

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 (2002-2019)

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
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
BL-3.1	--	--	--	--	--	--	--	--	--	--	--
BL-3.2	1.4	1.4	1.30	--	--	1.2	--	--	0.9	1.3	1.4
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 (2002-2019)

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

NOTES:
1. -- = no available data.

Appendix D, Table 7
Byram Lake
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Complete Data Record (2002-2019)

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.
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Appendix D, Table 7
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 7
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Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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
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
BL-3.8 (BL-3M)	42	48	44	38	44	46	46	48	48	46	46
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

NOTES:
1. -- = no available data.
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Appendix D, Table 8
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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).

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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).
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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
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**
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**
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).

Appendix D, Table 9
Byram Lake
Seasonal Water Quality Analyses
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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.

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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.

Appendix D, Table 9
Byram Lake
Seasonal Water Quality Analyses
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Complete Data Record (2002-2019)

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.

Appendix D, Table 9
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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	6/10/2020	8/17/2020	10/27/2020
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	0.0202	0.0352	0.014
BL-3.8 (BL-3M)	0.007	0.065	0.019	<0.005	0.017	0.0352	0.056	0.025	< 0.010	0.0262	0.0103
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.

Appendix D, Table 10
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 10
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 10
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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:
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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 Analytical Parameters
Complete Data Record (2002-2019)

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
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
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 11
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019

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:
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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 Analytical Parameters
Complete Data Record (2002-2019

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 Analytical Parameters
Complete Data Record (2002-2019

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	6/10/2020	8/17/2020	10/27/2020
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	< 0.6	< 0.6	< 0.6
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	1.23	< 0.6	< 0.6
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 12
Byram Lake
Seasonal Water Quality Analyses
Reseervoir Analytical Parameters
Complete Data Record (2002-2019)

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	--

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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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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	--	--	--	--	--	--	--	--

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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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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)	--	--	--	--	--	--	--	--	--	--	--

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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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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	6/10/2020	8/17/2020	10/27/2020
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**	10.6	13.3	12.3
BL-3.8 (BL-3M)	16.1	16.4	16.2	**22.6**	13.8	18.2	15.6	**21.3**	13.5	16.2	11.6
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

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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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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

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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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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	--	--	--	--	--	--	--	--

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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)	--	--	--	--	--	--	--	--	--	--	--

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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
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
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
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--	--	--	--

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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). The letters "ND" also indicate that Total Phosphorus was not detected, but that the MDL was not noted.
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Appendix D, Table 14
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Location Name	Chloride (mg/L)										
	06/09/10	08/19/10	10/14/10	06/29/11	11/03/11	05/31/12	07/18/12	12/11/12	06/06/13	09/19/13	12/04/13
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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Location Name	Chloride (mg/L)										
	05/07/14	07/21/14	12/18/14	05/06/15	09/02/15	10/22/15	08/31/16	09/26/16	04/24/17	07/31/17	11/27/17
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.

Appendix D, Table 14
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Chloride (mg/L)							
	05/31/18	10/10/18	06/17/19	08/27/19	10/07/19	06/10/20	08/17/20	10/27/20
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
BL-3.8 (BL-3M)	95.7	89.8	83.8	77.9	83.2	79.0	76.7	88.5

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.

Appendix D, Table 15
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 15
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 15
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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
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
BL-3.8 (BL-3M)	1.13	1.39	2.7	5.83	1.07	2.4	1.77	1.78

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).

Appendix D, Table 16
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 16
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 16
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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
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
BL-3.8 (BL-3M)	5.4	4.2	11	6.2	5.6	2.8	5.1	4.6

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).

Appendix D, Table 17
Byram Lake
Seasonal Water Quality Analyses
Reservoir Analytical Parameters
Complete Data Record (2002-2019)

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
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
BL-3.8 (BL-3M)	11.0	26.4	23.9	23.4	24.5	25.4	24.4	25.2
BL-3.15 (BL-3D)	--	--	--	--	--	--	--	--

NOTES:

1. -- = no available data.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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:
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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 18
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

Location Name	pH(SU)										
	Spring	**Summer**	**Fall**	**Spring**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**
	Dry	*Dry*	*Dry*	*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**	**6/10/2020**	**8/17/2020**	**10/27/2020**
BLT-1	8.21	*	8.12	7.76	7.90	8.08	8.39	--	7.28	7.25	7.71
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	6.92	8.23	8.69
BLT-5	7.46	*	7.20	7.26	7.28	7.18	7.29	7.26	6.93	8.04	7.91
BLT-6	8.14	*	7.49	8.04	7.88	7.94	7.80	7.47	7.69	7.31	8.11
BLT-7	8.19	*	7.64	7.88	7.81	7.9	7.71	7.26	7.48	7.12	7.67
BLT-8	7.44	*	7.28	7.42	7.58	7.37	7.47	--	7.43	7.23	8.02
BLT-9	7.66	*	--	7.49	7.68	--	--	--	--	--	--
BLT-10	8.16	*	7.69	8.30	8.18	8.21	8.10	7.86	8.11	7.63	7.86
BLT-11	8.17	*	8.02	8.05	8.15	8.4	8.01	8.05	7.68	7.51	7.81
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.

Appendix D, Table 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 19
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

Location Name	Temperature (°C)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	14.2	--	5.4	17.7	19.9	17.9	17.6	--	19.4	19.4	10.7
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	17.1	17.0	10.1
BLT-5	11.0	15.8	9.2	12.5	15.5	12.9	13.9	14.9	12.3	14.3	9.9
BLT-6	11.9	16.1	6.8	14.7	17.7	14.9	15	13.6	14.3	16.8	9.8
BLT-7	11.7	14.2	7.0	13.7	16.1	13.3	13.2	12.2	12.9	13.0	9.0
BLT-8	12.7	17.7	6.6	14.7	18.6	15	15.5	--	16.5	16.7	9.9
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	14.5	14.8	9.8
BLT-11	12.9	21.6	6.1	18.6	17.8	17.9	16.8	15.6	18.7	18.5	10.3
BLT-12	11.6	--	7.9	--	15.8	--	--	--	--	--	--

NOTES:
1. -- = no available data

Appendix D, Table 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 20
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

Location Name	Conductivity (µS/cm)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	179.3	--	125.6	198.0	204.4	222.2	163.4	--	175.5	179.4	264.5
BLT-2	391.6	711	704	828	470.3	713	993	--	--	--	--
BLT-3	859	--	--	--	--	--	--	--	--	--	--
BLT-4	557	990	610	852	588	669	881	937	768	762	791
BLT-5	1,223	1,578	1,296	1,415	1,685	1804	1849	1537	1652	1586	1500
BLT-6	282.3	739	508	424.1	345	422.1	680	926	498.4	818	883
BLT-.7	495.0	760	494.7	800	552	716	861	783	751	792	765
BLT-8	967	1,130	666	1,280	701	1116	1009	--	973	942	888
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	131.8	219.4	330.8
BLT-11	447.6	649	481.0	568.0	474.0	542.3	605	549	519.5	556	632.4
BLT-12	1076	--	1308	--	1,005	--	--	--	--	--	--

NOTES:
1. -- = no available data

Appendix D, Table 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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:
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Appendix D, Table 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 21
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

Location Name	Dissolved Oxygen (mg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	15.11	--	8.66	8.42	8.06	7.12	6.96	--	4.96	5.57	NM
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	5.11	9.40	NM
BLT-5	11.94	9.60	6.13	11.32	9.49	9.94	9.58	4.51	7.00	12.20	NM
BLT-6	12.87	8.68	6.84	10.80	9.46	8.69	9.34	6.26	**2.81**	10.30	NM
BLT-7	12.99	9.13	6.82	10.90	9.50	8.32	7.99	12.32	**3.29**	13.20	NM
BLT-8	12.63	7.12	7.31	9.92	8.62	7.99	6.82	--	**2.51**	9.50	NM
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	4.22	10.18	NM
BLT-11	12.82	7.65	8.43	8.91	9.15	6.21	7.27	10.67	**1.86**	10.91	NM
BLT-12	13.76	--	5.91	--	8.37	--		--	--	--	--

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For NYSDEC Class A surface waters, DO must be 4.0 mg/L or greater.
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Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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:
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Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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:
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Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

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

Appendix D, Table 22
Byram Lake
Tributary Field Parameters
Complete Data Record (2002-2019)

Location Name	Turbidity (NTU)										
	Spring	**Summer**	**Fall**	**Spring**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**
	Dry	*Dry*	*Dry*	*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**	**6/10/2020**	**8/17/2020**	**10/27/2020**
BLT-1	3.8	--	1.3	1.8	1.1	2.8	6.5	--	1.3	2.2	0.6
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	0.8	1.4	0.3
BLT-5	0.6	0.9	1.2	0.1	0.3	0.9	0.6	1.0	1.0	1.2	0.5
BLT-6	0.7	0.4	0.2	0.8	0.6	6.9	2.4	1.1	2.1	0.1	0.6
BLT-7	2.9	7.1	0.2	0.5	1.0	1.0	6.8	2.9	2.9	1.3	1.0
BLT-8	0.7	0.2	0.5	0.3	1.3	0.7	0.5	--	9.7	6.9	0.9
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	3.9	0.4	0.6
BLT-11	1.6	1.6	0.4	1.5	1.4	0.3	3.6	1.9	1.3	3.1	0.6
BLT-12	1.2	--	0.1	--	0.2	--	--	--	--	--	--

NOTES:
1. -- = no available data

Appendix D, Table 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

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).

Appendix D, Table 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

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.
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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 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

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.
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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 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

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:
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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 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

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.
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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 23
Byram Lake
Tributary Analytical Parameters
Complete Data (2002-2019)

Location Name	Sodium (mg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	**21.7**	--	11.8	16.4	15.7	17.8	7.6	--	12.1	6.5	13.4
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**	**82.4**	**78.9**	**67.9**
BLT-5	**162.6**	**178.5**	**184.4**	**197.1**	**196.6**	**192.1**	**199.2**	**193.4**	**196.2**	**186.4**	**189.5**
BLT-6	**35.8**	**76.2**	**73.5**	**41.0**	**37.4**	**37.0**	**60.9**	**104.8**	**44.9**	**89.0**	**82.4**
BLT-7	**68.1**	**89.7**	**74.4**	**104.7**	**69.6**	**78.4**	**94.6**	**94.5**	**90.1**	**88.8**	**79.6**
BLT-8	**176.9**	**181.6**	**145.9**	**220.9**	**99.3**	**174.8**	**170.2**	--	**165.3**	**165.3**	**137.6**
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**	13.3	**22.7**	**30.4**
BLT-11	**34.3**	**26.9**	**28.8**	**31.9**	**37.7**	**30.7**	**31.2**	**27.5**	**34.8**	**29.4**	**28.4**
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 standard exists). The NYSDOH Guidance Value is 20 mg/L (for people on severely restricted sodium diets).

Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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.
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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 24
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Ammonia (mgN/L)										
	Spring	**Summer**	**Fall**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**
	Dry	*Dry*	*Dry*	*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**	**6/10/2020**	**8/17/2020**	**10/22/2020**
BLT-1	0.032	--	0.010	0.028	<0.005	0.0551	<0.010	--	0.0488	0.353	< 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	0.0319	< 0.010	0.0151
BLT-5	0.036	0.015	<.0025	0.018	0.015	0.028	<0.010	0.020	0.0152	< 0.010	< 0.010
BLT-6	0.032	0.029	0.120	0.029	0.016	0.0236	<0.010	0.039	0.0109	< 0.010	< 0.010
BLT-7	<0.007	0.019	0.014	0.056	<0.005	0.038	<0.010	0.055	0.0191	< 0.010	< 0.010
BLT-8	0.016	0.039	0.018	<0.010	<0.005	0.0308	0.047	--	0.0233	< 0.010	0.0322
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	0.0246	< 0.010	< 0.010
BLT-11	<0.007	0.019	0.041	0.033	0.014	0.0251	0.021	0.013	0.0194	0.0195	< 0.010
BLT-12	<0.007	--	0.015	--	0.023	--	--	--	--	--	--

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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.

Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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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.

Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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For NYSDEC Class A surface waters, Nitrate must be below 10.0 mg/L.

Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 25
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Nitrate (mg/L)										
	Fall	**Summer**	**Fall**	**Spring**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**
	Dry	*Dry*	*Dry*	*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**	**6/10/2020**	**8/17/2020**	**10/27/2020**
BLT-1	< 0.5	--	< 0.5	<0.5	<0.5	<0.5	<0.5	--	0.54	< 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	0.50	<0.5	<0.5
BLT-5	< 0.5	< 0.5	< 0.5	0.53	<0.5	0.54	<0.5	<0.5	< 0.5	<0.5	<0.5
BLT-6	0.51	0.53	< 0.5	0.77	0.57	0.79	<0.5	<0.5	0.98	0.50	<0.5
BLT-7	0.55	< 0.5	0.75	0.68	0.57	0.66	<0.5	<0.5	0.72	<0.5	<0.5
BLT-8	0.49	0.59	1.01	0.66	0.53	0.68	1.06	--	0.70	< 0.5	0.50
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	0.59	0.60	<0.5
BLT-11	< 0.5	< 0.5	< 0.5	0.57	<0.5	0.70	<0.5	<0.5	0.65	<0.5	<0.5
BLT-12	1.3	--	1.70	--	3.2	--	--	--	--	--	--

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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	--

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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Appendix D, Table 26
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Total Kjeldahl Nitrogen (mg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	1.33	--	1.67	1.36	1.83	<1.0	<1.0	--	0.64	0.84	0.68
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	< 0.6	< 0.6	< 0.6
BLT-5	1.24	1.64	1.71	1.13	1.62	<1.0	<1.0	<0.6	< 0.6	< 0.6	< 0.6
BLT-6	1.27	1.58	1.74	1.22	1.04	<1.0	<1.0	<0.6	0.60	0.70	< 0.6
BLT-7	1.38	1.68	1.68	1.14	1.05	<1.0	<1.0	<0.6	< 0.6	< 0.6	< 0.6
BLT-8	1.55	1.53	1.74	1.21	1.35	<1.0	<1.0	--	0.62	< 0.6	--
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	< 0.6	< 0.6	< 0.6
BLT-11	1.50	1.55	1.62	1.19	1.14	0.65	<1.0	<0.6	< 0.6	< 0.6	< 0.6
BLT-12	1.97	--	1.76	--	2.06	--	--	--	--	--	--

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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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**

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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.

Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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**	--

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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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**

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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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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.

Appendix D, Table 27
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Total Phosphorus (µg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	**48.5**	--	19.5	**33.6**	**27.2**	**84.7**	**73.0**	--	**45.1**	**315.0**	16.8
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**	**31.5**	**40.4**	**24.4**
BLT-5	15.1	16.7	19.2	17.9	19.5	**22.8**	**20.3**	**75.1**	17.9	**22.9**	**25.2**
BLT-6	9.6	16.4	10	15.1	**22**	**89.7**	**29.5**	**76.5**	**25.7**	**21.4**	**25.0**
BLT-7	12.2	**29**	5.5	8.3	13.2	16.8	11.1	**65.5**	11.2	7.1	**10.8**
BLT-8	10.9	14.7	7.1	11.3	15.6	15.8	**22.3**	--	**26.5**	**44.6**	19.0
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**	**32.4**	**20.1**	18.0
BLT-11	18.1	**26**	7.1	**23.7**	14.5	**24.0**	20.0	**59.4**	14.3	**32.1**	10.5
BLT-12	**43.8**	--	14.3	--	**31.2**	--	--	--	--	--	--

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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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**

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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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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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.

Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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

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Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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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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).
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Appendix D, Table 28
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Soluble Reactive Phosphorus (µg/L)										
	Summer	Fall	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	19.4	--	14.6	**21.6**	**24.7**	**37.7**	**44.3**	--	**36.3**	**152.0**	**37.2**
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**	**27.2**	**34.2**	**21.0**
BLT-5	15.1	12	11.7	12.4	18.3	18.3	**32.9**	**71.7**	14.5	**21.7**	**20.9**
BLT-6	5.3	13.7	7.1	10.7	17	18.9	**21.0**	**68.4**	15.2	19.5	**20.2**
BLT-7	5	4.4	3.2	5	13.2	11.8	8.1	**51.6**	4.7	6.6	6.5
BLT-8	5.7	14	4.5	8.6	17.7	13.9	**20.1**	--	13.2	16.4	15.6
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**	**28.6**	19.7	9.8
BLT-11	4	11.4	3.2	8.9	10.3	13.4	13.7	**54.7**	8.7	16.4	7.6
BLT-12	19.7	--	12.6	--	**24.2**	--	--	--	--	--	--

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 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 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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).

Appendix D, Table 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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).

Appendix D, Table 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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).

Appendix D, Table 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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:
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).

Appendix D, Table 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 29
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Total Petroleum Hydrocarbons - TPH (mg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	< 1.0	--	< 1.0	<1	1.8	<1	<1	--	< 1	1.0	< 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	2.52	< 1	< 1
BLT-5	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	<1	< 1	< 1	< 1
BLT-6	< 1.0	< 1.0	< 1.0	<1	1.0	<1	<1	<1	< 1	< 1	< 1
BLT-7	< 1.0	< 1.0	< 1.0	<1	1.1	<1	<1	<1	< 1	< 1	< 1
BLT-8	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	--	1.41	< 1	< 1
BLT-9	< 1.0	--	--	<1	<1	--	--	--	--	--	--
BLT-10	< 1.0	< 1.0	< 1.0	1.24	<1	<1	<1	<1	< 1	< 1	< 1
BLT-11	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1	<1	< 1	< 1	1.25
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).

Appendix D, Table 30
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 30
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 30
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 30
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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.

Appendix D, Table 30
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Chloride (mg/L)										
	Spring	**Summer**	**Fall**	**Spring**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**	**Fall**
	Dry	*Dry*	*Dry*	*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**	**6/10/2020**	**8/17/2020**	**10/27/2020**
BLT-1	39.2	--	19.6	29.1	28.0	34.5	11.6	--	16.9	9.7	28.7
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	160.7	137.5	130.7
BLT-5	**466.0**	**504.0**	**502.3**	**588.9**	**611.5**	**500.2**	23.6	**502.2**	**447.9**	**444.7**	**426.5**
BLT-6	81.0	189.3	159.2	119.3	83.3	92.3	127.7	246.6	101	174.5	169.6
BLT-7	143.3	208.4	162.2	**260.6**	138.3	157.2	15.2	224.9	171.6	170.7	168.1
BLT-8	**334.3**	**286.0**	205.9	220.9	147.7	**273.3**	175.4	--	218.6	188.5	145.3
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	18.8	37.0	73.6
BLT-11	135.2	147.0	145.9	141.1	106.1	110.9	122.0	129.2	112.4	107.6	114.4
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.

Appendix D, Table 31
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 31
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 31
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 31
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

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).

Appendix D, Table 31
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Alkalinity (mg/L)										
	Spring	Summer	Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	Dry	*Dry*	*Dry*	*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	6/10/2020	8/17/2020	10/27/2020
BLT-1	40	--	48	54	56	60	58	--	56	78	86
BLT-2	48	162	150	103	56	80	178	--	--	--	--
BLT-3	48	--	--	--	--	--	--	--	--	--	--
BLT-4	78	144	114	94	80	110	138	158	126	146	144
BLT-5	106	124	122	103	132	138	154	150	142	146	158
BLT-6	40	102	94	54	46	62	94	122	78	108	124
BLT-7	44	88	56	52	56	66	88	98	76	90	92
BLT-8	82	128	126	88	108	112	164	--	122	134	158
BLT-9	64	--	--	21	80	--	--	--	--	--	--
BLT-10	<20	34	36	22	20	24	30	40	26	30	40
BLT-11	50	82	80	64	48	66	74	92	66	84	88
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).

Appendix D, Table 32
Byram Lake
Tributary Analytical Parameters
Complete Data Record (2002-2019)

Location Name	Calcium (mg/L)							
	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall
	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
BLT-1	19.4	17.9	17.9	15.6	--	17.8	24.8	24.9
BLT-2	60.6	28.8	48.1	82.6	--	--	--	--
BLT-3	--	---	--	--	--	--	--	--
BLT-4	60.9	37.2	44.2	60.9	81.7	60.6	63.8	63.2
BLT-5	148.6	138.5	137	124.6	122.1	129.2	115.8	111.3
BLT-6	40.4	28.9	34.1	51.6	71.7	42.5	66.8	64.8
BLT-7	59.0	37.8	41.6	51.9	68.9	50.8	54.6	55.1
BLT-8	67.3	31.5	46.3	36.2	--	45.5	37.6	34.8
BLT-9	56.9	15.6	--	--	--	--	--	--
BLT-10	11.0	9.4	9.3	11.9	16.6	10.5	15.2	21.0
BLT-11	58.0	46.7	50.6	57.3	64.2	52.0	60.1	61.4
BLT-12	--	56.9	--	--	--	--	--	--

NOTES:
1. -- = no available data.

APPENDIX E:

ZOOPLANKTON DATA

Appendix E, Table 1
Densities and Biomass of Zooplankton Identified in Byram Lake (2008-2020)

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	10/10/2018	10/7/2019	8/17/2020
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
	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
	Chydorus sphaericus	--	--	--	--	--	--	--	--	--	--	2.89	--	--
	Daphnia ambigua	0.40	0.35	--	--	--	--	--	--	--	--	--	--	--
	Diaphanosoma sp.	--	0.21	--	3.97	6.12	1.35	--	--	--	3.05	--	--	4.08
	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	--	--	--	--	--	--	--	--
Copepods	*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
	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
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
Rotifera	*Ascomorpha sp.*	--	--	--	--	--	--	--	--	--	--	--	--	--
	Asplanchna sp.	--	--	5.44	0.79	0.92	--	--	--	33.65	--	0.76	1.36	--
	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
	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
	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
	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
	Total Biomass													

Appendix E, Table 1
Densities and Biomass of Zooplankton Identified in Byram Lake (2008-2020)

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	10/10/2018	10/7/2019	8/17/2020
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
	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
	Chydorus sphaericus	--	--	--	--	--	--	--	--	--	--	2.89	--	--
	Daphnia ambigua	3.64	3.18	--	--	--	--	--	--	--	--	--	--	--
	Diaphanosoma sp.	--	0.40	--	7.51	11.56	2.60	--	--	--	5.78	--	--	7.71
	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	--	--	--	--	--	--	--	--
Copepods	*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
	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
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
Rotifera	*Ascomorpha sp.*	--	--	--	--	--	--	--	--	--	--	--	--	--
	Asplanchna sp.	--	--	1.15	0.17	0.19	--	--	--	7.13	--	0.16	0.29	--
	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
	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
	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
	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***

Appendix E, Table 2
Zooplankton Taxa Identified in Byram Lake

Order	Species	2002	2008	2009	2010	2012	2013	2014	2015	2016	2018	2019	2020
Cladocera	*Bosmina sp.*	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
	Chydorus sphaericus										x		
	Daphnia ambigua		x										
	Diaphanosoma sp.		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
	Mesocyclops edax	x	x	x	x				x			x	x
	Tropocyclops sp.									x			
	Cyclopoid copepodid								x	x	x	x	x
Nauplii	*Nauplii*	x	x	x	x	x	x	x	x	x	x	x	x
Rotifera	*Ascomorpha sp.*												
	Asplanchna sp.	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
	Keratella quadrangula		x	x	x	x		x		x			
	Lecane sp.												
	Lepadella sp.												
	Miscellaneous rotifers						x	x	x				x
	Monostyla sp.												
	Notholca sp.												
	Polyarthra sp.		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
	Total	**7**	**14**	**17**	**18**	**10**	**13**	**8**	**17**	**10**	**11**	**10**	**13**

APPENDIX F:

2020 LABORATORY ANALYTICAL REPORTS

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: 6/10/2020 11:45 AM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 6/24/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247744
Sample Type: Test
Sample Source: BL-35
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	44	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	25.1	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	79.3	mg/L	250	EPA 300.0	1	6/11/2020
Sodium	37.8	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	6/22/2020
Oxygen Demand						
Biochemical Oxygen Demand	2.6	mg/L	No Limit Set	SM5210B-22	1	6/12/2020
Physical						
Turbidity	0.7	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 11:55 AM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 6/24/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247745
Sample Type: Test
Sample Source: BL - 3M
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	48	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	25.4	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	79.0	mg/L	250	EPA 300.0	1	6/11/2020
Sodium	38.0	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	1.23	mg/L	No Limit Set	I4500NH3C-	0.6	6/22/2020
Oxygen Demand						
Biochemical Oxygen Demand	2.4	mg/L	No Limit Set	SM5210B-22	1	6/12/2020
Physical						
Turbidity	0.9	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 1:15 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247746
Sample Type: Test
Sample Source: BLT - 1
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	56	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	17.8	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	16.9	mg/L	250	EPA 300.0	1	6/11/2020
Sodium	12.1	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.54	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	0.64	mg/L	No Limit Set	I4500NH3C-	0.6	6/22/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	1.3	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 1:50 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247747
Sample Type: Test
Sample Source: BLT - 4
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	126	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	60.6	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	160.7	mg/L	250	EPA 300.0	1	6/12/2020
Sodium	82.4	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.50	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	6/22/2020
Organic Compounds						
Total Petroleum Hydrocarbons	2.52	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	0.8	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 2:05 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247748
Sample Type: Test
Sample Source: BLT - 5
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	142	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	129.2	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	447.9 *	mg/L	250	EPA 300.0	1	6/12/2020
Sodium	196.2	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	1.0	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 2:25 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247749
Sample Type: Test
Sample Source: BLT - 6
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	78	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	42.5	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	101.0	mg/L	250	EPA 300.0	1	6/11/2020
Sodium	44.9	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.98	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	0.6	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	2.1	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 2:40 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247750
Sample Type: Test
Sample Source: BLT - 7
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	76	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	50.8	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	171.6	mg/L	250	EPA 300.0	1	6/15/2020
Sodium	90.1	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.72	mg/L	10	EPA 300.0	0	6/11/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	2.9	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 3:00 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247751
Sample Type: Test
Sample Source: BLT - 8
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	122	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	45.5	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	218.6	mg/L	250	EPA 300.0	1	6/15/2020
Sodium	165.3	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.70	mg/L	10	EPA 300.0	0	6/12/2020
Total Kjeldahl Nitrogen as N	0.62	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	1.41	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	9.7 *	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 3:15 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247752
Sample Type: Test
Sample Source: BLT - 10
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	26	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	10.5	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	18.8	mg/L	250	EPA 300.0	1	6/12/2020
Sodium	13.3	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.59	mg/L	10	EPA 300.0	0	6/12/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	3.9	NTU	5	EPA 180.1	0.05	6/12/2020

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: 6/10/2020 3:44 PM
Receipt Date: 6/11/2020 1:15 PM
Report Date: 7/23/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 247753
Sample Type: Test
Sample Source: BLT - 11
Sampler: MO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	66	mg/L	No Limit Set	EPA 310.1	5	6/16/2020
Calcium	52.0	mg/L	No Limit Set	EPA 200.5	0.01	6/12/2020
Chloride	112.4	mg/L	250	EPA 300.0	1	6/15/2020
Sodium	34.8	mg/L	No Limit Set	EPA 200.5	1	6/12/2020
Nutrient						
Nitrate as N	0.65	mg/L	10	EPA 300.0	0	6/12/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	7/6/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	7/22/2020
Physical						
Turbidity	1.3	NTU	5	EPA 180.1	0.05	6/12/2020

ND = Not Detected
* = Above Specified Limit

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

Data Report Number: CHM2020_044
Byram Lake -Spring 2020
Sampling Date: 6/10/20
Submission Date: 7/16/20

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)
200611001-001	BL-3S	Byram Lake	BL	SW	6/10/20	11:45	6/11/20	10:05	20.2	F16	10.6		8.6		2.3	
200611001-002	BL-3M	Byram Lake	BL	SW	6/10/20	11:55	6/11/20	10:05	<LOD	F22	13.5		4.6		2.8	
200611001-003	BLT-1	Byram Lake	BLT	SW	6/10/20	13:15	6/11/20	10:05	48.8		45.1		36.3			
200611001-004	BLT-4	Byram Lake	BLT	SW	6/10/20	13:50	6/11/20	10:05	31.9		31.5		27.2			
200611001-005	BLT-5	Byram Lake	BLT	SW	6/10/20	14:05	6/11/20	10:05	15.2	F16	17.9		14.5			
200611001-006	BLT-6	Byram Lake	BLT	SW	6/10/20	14:25	6/11/20	10:05	10.9	F16	25.7		15.2			
200611001-007	BLT-7	Byram Lake	BLT	SW	6/10/20	14:40	6/11/20	10:05	19.1	F16	11.2		4.7			
200611001-008	BLT-8	Byram Lake	BLT	SW	6/10/20	15:00	6/11/20	10:05	23.3	F16	26.5		13.2			
200611001-009	BLT-10	Byram Lake	BLT	SW	6/10/20	15:15	6/11/20	10:05	24.6	F16	32.4		28.6			
200611001-010	BLT-11	Byram Lake	BLT	SW	6/10/20	15:45	6/11/20	10:05	19.4	F16	14.3		8.7			

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	30 µgN/L	10 µgN/L	5/26/2020	SM 4500-NH3 H, 2011	Yes
*TP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	Yes
TP prep method			5/14/2020	SM 4500-P B(5), 2011	Yes
*TDP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.4 µgChl/L	0.2 µgChl/L	1/6/2020	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: CHM2020_044
UFI Contract Number: 513 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: 7/16/20

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: 8/17/2020 10:40 AM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 8/25/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251776
Sample Type: Test
Sample Source: BL-3S
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	44	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	24.4	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	76.6	mg/L	250	EPA 300.0	1	8/19/2020
Sodium	36.9	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Oxygen Demand						
Biochemical Oxygen Demand	1.39	mg/L	No Limit Set	SM5210B-22	1	8/19/2020
Physical						
Turbidity	1.2	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 10:50 AM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 8/25/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251777
Sample Type: Test
Sample Source: BL-3M
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	46	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	24.4	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	76.7	mg/L	250	EPA 300.0	1	8/19/2020
Sodium	36.6	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Oxygen Demand						
Biochemical Oxygen Demand	1.77	mg/L	No Limit Set	SM5210B-22	1	8/19/2020
Physical						
Turbidity	1.3	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 2:10 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251778
Sample Type: Test
Sample Source: BLT - 1
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	78	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	24.8	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	9.7	mg/L	250	EPA 300.0	1	8/19/2020
Sodium	6.5	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	0.84	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Organic Compounds						
Total Petroleum Hydrocarbons	1.0	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	2.2	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 1:40 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251779
Sample Type: Test
Sample Source: BLT - 4
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	146	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	63.8	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	137.5	mg/L	250	EPA 300.0	1	8/21/2020
Sodium	78.9	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	1.4	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 1:30 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251780
Sample Type: Test
Sample Source: BLT - 5
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	146	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	115.8	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	444.7 *	mg/L	250	EPA 300.0	1	8/22/2020
Sodium	186.4	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	1.2	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 1:20 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251781
Sample Type: Test
Sample Source: BLT - 6
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	108	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	66.8	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	174.5	mg/L	250	EPA 300.0	1	8/21/2020
Sodium	89.0	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	0.70	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	0.1	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 1:05 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251782
Sample Type: Test
Sample Source: BLT - 7
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	90	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	54.6	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	170.7	mg/L	250	EPA 300.0	1	8/21/2020
Sodium	88.8	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	8/24/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	1.3	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 12:25 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251783
Sample Type: Test
Sample Source: BLT - 8
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	134	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	37.6	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	188.5	mg/L	250	EPA 300.0	1	8/21/2020
Sodium	165.3	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	9/8/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	6.9 *	NTU	5	EPA 180.1	0.05	8/18/2020

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

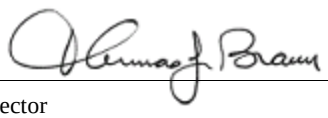
Report of Analysis

Name: Chazen Environmental Services, Inc
Attn: Russell Urban-Mead
21 Fox Street
Poughkeepsie, NY 12601
Sample Date: 8/17/2020 12:10 PM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251784
Sample Type: Test
Sample Source: BLT-10
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	30	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	15.2	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	37.0	mg/L	250	EPA 300.0	1	8/19/2020
Sodium	22.7	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	0.60	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	9/8/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	0.4	NTU	5	EPA 180.1	0.05	8/18/2020

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: 8/17/2020 11:55 AM
Receipt Date: 8/18/2020 11:30 AM
Report Date: 9/18/2020
Sample Site: Byram Lake - Mt. Kisco, NY

Sample ID#: 251785
Sample Type: Test
Sample Source: BLT-11
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	84	mg/L	No Limit Set	EPA 310.1	5	8/24/2020
Calcium	60.1	mg/L	No Limit Set	EPA 200.5	0.01	8/19/2020
Chloride	107.6	mg/L	250	EPA 300.0	1	8/21/2020
Sodium	29.4	mg/L	No Limit Set	EPA 200.5	1	8/19/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	8/19/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	9/8/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	9/17/2020
Physical						
Turbidity	3.1	NTU	5	EPA 180.1	0.05	8/18/2020

ND = Not Detected
* = Above Specified Limit

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

Data Report Number: CHM2020_081
Byram Lake -Summer 2020
Sampling Date: 8/16/20
Submission Date: 9/14/20

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)
200818005-002	BL-3S	Byram Lake	BL	SW	8/17/20	10:40	8/18/20	10:58	35.2		13.3		6.6		5.2	
200818005-003	BL-3M	Byram Lake	BL	SW	8/17/20	10:50	8/18/20	10:58	26.2	F16	16.2		3.5		5.1	
200818005-004	BLT-1	Byram Lake	BLT	SW	8/17/20	14:10	8/18/20	10:58	353		315.0		152.0			
200818005-005	BLT-4	Byram Lake	BLT	SW	8/17/20	13:40	8/18/20	10:58	<lod	F22	40.4		34.2			
200818005-006	BLT-5	Byram Lake	BLT	SW	8/17/20	13:30	8/18/20	10:58	<lod	F22	22.9		21.7			
200818005-007	BLT-6	Byram Lake	BLT	SW	8/17/20	13:20	8/18/20	10:58	<lod	F22	21.4		19.5			
200818005-008	BLT-7	Byram Lake	BLT	SW	8/17/20	13:05	8/18/20	10:58	<lod	F22	7.1		6.6			
200818005-009	BLT-8	Byram Lake	BLT	SW	8/17/20	12:25	8/18/20	10:58	<lod	F22	44.6		16.4			
200818005-010	BLT-10	Byram Lake	BLT	SW	8/17/20	12:10	8/18/20	10:58	<lod	F22	20.1		19.7			
200818005-011	BLT-11	Byram Lake	BLT	SW	8/17/20	11:55	8/18/20	10:58	19.5	F16	32.1		16.4			

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

Upstate Freshwater Institute
Byram Lake, Armonk N 2020
Dry weight = ug / individual
Biomass = ug / Liter
Concentration (Conc.) = indivduals / Liter

8/17/2020

Dilution (ml) 5./50

		Raw count	Conc.	dry weight	biomass
Cladocera	Bosmina l.	3	4.079327005	0.54	2.202836583
	Cercopagis p.	0	0	0.6	0
	Ceriodaphnia sp	42	57.11057807	1.25	71.38822258
	Chydorus s.	0	0	1	0
	Daphnia sp.	0	0	9	0
	Diaphanosoma l.	3	4.079327005	1.89	7.709928039
	Eubosmina c.	0	0	0.54	0
	Leptodora kindtii	0	0	36.6	0
Calanoid	Calanoid copepod	3	4.079327005	11.12	45.36211629
	calanoid copepodid	0	0	1.5	0
Cyclopoid copepod	Cyclopoid copepod	0	0	4.85	0
	Acanthocyclops vernalis	17	23.11618636	0.4	9.246474544
	Mesocyclops edax	2	2.719551337	0.07	0.190368594
	Tropocyclops sp.	0	0	0.7	0
	Cyclopoid copepodid	18	24.47596203	1.5	36.71394304
Nauplii	Nauplii	28	38.07371871	0.11	4.188109058
Rotifera	Ascomorpha sp.	0	0		0
	Asplanchna sp.	0	0	0.212	0
	Brachionus sp.	0	0	0.125	0
	Collotheca sp.	0	0	0.06	0
	Conochilus sp.	0	0	0.06	0
	Euchlanis sp.	0	0		0
	Filinia sp.	6	8.15865401	0.07	0.571105781
	Gastropus sp.	0	0		0
	Kellicotia sp.	0	0	0.045	0
	Keratella cochlearis	110	149.5753235	0.07	10.47027265
	Keratella quadrangula	0	0	0.1	0
	Lecane sp.	0	0	0.06	0
	Lepadella sp.	0	0		0
	Misc. rotifer	5	6.798878341		0
	Monostyla sp.	0	0		0
	Notholca sp.	0	0	0.09	0
	Polyarthra sp.	20	27.19551337	0.06	1.631730802
	Pompholyx sp.	0	0	0.06	0
	Synchaeta sp.	0	0	0.09	0
	Trichocera sp.	17	23.11618636	0.075	1.733713977
	Date				**8/17/2020**
	Herbivore biomass				**179.667159**
	Carnivore biomass				**11.7416629**
	Cladocera biomass				**81.30098721**
	Calanoid copepod biomass				**45.36211629**
	Cyclopoid copepod biomass				**9.436843138**
	Calanoid copepodid biomass				**0**
	Cylopoid copepodid biomass				**36.71394304**
	Nauplii biomass				**4.188109058**
	Rotifer biomass				**14.40682321**
	Total biomass				**191.4088219**
	Daphnid biomass				**0**

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	30 µgN/L	10 µgN/L	5/26/2020	SM 4500-NH3 H, 2011	Yes
*TP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	Yes
TP prep method			5/14/2020	SM 4500-P B(5), 2011	Yes
*TDP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.4 µgChl/L	0.2 µgChl/L	1/6/2020	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: CHM2020_081
UFI Contract Number: 513 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: 9/14/20

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: 10/27/2020 9:50 AM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 11/5/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256043
Sample Type: Test
Sample Source: BL-3S
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	50	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	24.9	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	88.7	mg/L	250	EPA 300.0	1	10/29/2020
Sodium	37.7	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Oxygen Demand						
Biochemical Oxygen Demand	3.42	mg/L	No Limit Set	SM5210B-22	1	10/28/2020
Physical						
Turbidity	0.9	NTU	5	EPA 180.1	0.05	10/28/2020

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: 10/27/2020 10:00 AM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 11/5/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256044
Sample Type: Test
Sample Source: BL-3M
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	46	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	25.2	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	85.0	mg/L	250	EPA 300.0	1	10/29/2020
Sodium	37.9	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Oxygen Demand						
Biochemical Oxygen Demand	1.78	mg/L	No Limit Set	SM5210B-22	1	10/28/2020
Physical						
Turbidity	1.4	NTU	5	EPA 180.1	0.05	10/28/2020

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: 10/27/2020 1:10 PM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256045
Sample Type: Test
Sample Source: BLT-1
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	86	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	24.9	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	28.7	mg/L	250	EPA 300.0	1	10/29/2020
Sodium	13.4	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	0.68	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.6	NTU	5	EPA 180.1	0.05	10/28/2020

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: 10/27/2020 12:50 PM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256046
Sample Type: Test
Sample Source: BLT-4
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	144	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	63.2	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	130.7	mg/L	250	EPA 300.0	1	10/31/2020
Sodium	67.9	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.3	NTU	5	EPA 180.1	0.05	10/28/2020

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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: 10/27/2020 12:30 PM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256047
Sample Type: Test
Sample Source: BLT-5
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	158	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	111.3	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	426.5 *	mg/L	250	EPA 300.0	1	10/31/2020
Sodium	189.5	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.5	NTU	5	EPA 180.1	0.05	10/28/2020

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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: 10/27/2020 12:20 PM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256048
Sample Type: Test
Sample Source: BLT-6
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	124	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	64.8	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	169.6	mg/L	250	EPA 300.0	1	10/31/2020
Sodium	82.4	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/29/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.6	NTU	5	EPA 180.1	0.05	10/28/2020

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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: 10/27/2020 12:05 PM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256049
Sample Type: Test
Sample Source: BLT-7
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	92	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	55.1	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	168.1	mg/L	250	EPA 300.0	1	10/30/2020
Sodium	79.6	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/30/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	1.0	NTU	5	EPA 180.1	0.05	10/28/2020

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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: 10/27/2020 11:55 AM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256050
Sample Type: Test
Sample Source: BLT-8
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	158	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	34.8	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	145.3	mg/L	250	EPA 300.0	1	10/30/2020
Sodium	137.6	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	0.5	mg/L	10	EPA 300.0	0	10/30/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.9	NTU	5	EPA 180.1	0.05	10/28/2020

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* = Above Specified Limit

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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: 10/27/2020 11:40 AM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256051
Sample Type: Test
Sample Source: BLT-10
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	40	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	21.0	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	73.6	mg/L	250	EPA 300.0	1	10/30/2020
Sodium	30.4	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/30/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	<1	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.6	NTU	5	EPA 180.1	0.05	10/28/2020

ND = Not Detected
* = Above Specified Limit

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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: 10/27/2020 11:20 AM
Receipt Date: 10/28/2020 10:00 AM
Report Date: 12/1/2020
Sample Site: Byram Lake Trib., Mount Kisco, NY

Sample ID#: 256052
Sample Type: Test
Sample Source: BLT-11
Sampler: EO

Parameter	Sample Result	Units	Limits	Method	MDL	Analysis Date
Minerals						
Alkalinity	88	mg/L	No Limit Set	EPA 310.1	5	10/30/2020
Calcium	61.4	mg/L	No Limit Set	EPA 200.5	0.01	10/29/2020
Chloride	114.4	mg/L	250	EPA 300.0	1	10/30/2020
Sodium	28.4	mg/L	No Limit Set	EPA 200.5	1	10/29/2020
Nutrient						
Nitrate as N	<0.5	mg/L	10	EPA 300.0	0	10/30/2020
Total Kjeldahl Nitrogen as N	<0.6	mg/L	No Limit Set	I4500NH3C-	0.6	11/4/2020
Organic Compounds						
Total Petroleum Hydrocarbons	1.25	mg/L	No Limit Set	1664A	1	11/25/2020
Physical						
Turbidity	0.6	NTU	5	EPA 180.1	0.05	10/28/2020

ND = Not Detected
* = Above Specified Limit

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

Data Report Number: CHM2020_133
Byram Lake -Fall 2020
Sampling Date: 8/16/20
Submission Date: 11/17/20

Prepared for:

Eric Orlowski
Water Resource & Sustainability Projects
The Chazen Companies
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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)
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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)
201028004-001	BL-3S	Byram Lake	BL	SW	10/27/20	9:50	10/28/20	10:46	14	F16	12.3		6.6		3.6	F13
201028004-002	BL-3M	Byram Lake	BL	SW	10/27/20	10:00	10/28/20	10:46	10.3	F16	11.6		6.3		4.6	F13
201028004-003	BLT-1	Byram Lake	BLT	SW	10/27/20	13:10	10/28/20	10:46	<lod	F22	168		372.0	F2		
201028004-004	BLT-4	Byram Lake	BLT	SW	10/27/20	12:50	10/28/20	10:46	15.1	F16	24.4		21.0			
201028004-005	BLT-5	Byram Lake	BLT	SW	10/27/20	12:30	10/28/20	10:46	<lod	F22	25.2		20.9			
201028004-006	BLT-6	Byram Lake	BLT	SW	10/27/20	12:20	10/28/20	10:46	<lod	F22	25		20.2			
201028004-007	BLT-7	Byram Lake	BLT	SW	10/27/20	12:05	10/28/20	10:46	<lod	F22	10.8		6.5			
201028004-008	BLT-8	Byram Lake	BLT	SW	10/27/20	11:55	10/28/20	10:46	33.2		19		15.6			
201028004-009	BLT-10	Byram Lake	BLT	SW	10/27/20	11:40	10/28/20	10:46	<lod	F22	18		9.8			
201028004-010	BLT-11	Byram Lake	BLT	SW	10/27/20	11:20	10/28/20	10:46	<lod	F22	10.5		7.6			

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	30 µgN/L	10 µgN/L	5/26/2020	SM 4500-NH3 H, 2011	Yes
*TP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	Yes
TP prep method			5/14/2020	SM 4500-P B(5), 2011	Yes
*TDP	3.0 µgP/L	1.0 µgP/L	5/14/2020	SM 4500-P F-H, 2011	No
*Chla_fl	0.4 µgChl/L	0.2 µgChl/L	1/6/2020	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: CHM2020_133
UFI Contract Number: 554 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: 11/17/20