August 24, 2018 Service Request No:R1807155

Ms. Alene Onion
New York State DEC
625 Broadway
Albany, NY 12233-3502

Laboratory Results for: LCI 2018

Dear Ms.Onion,

Enclosed are the results of the sample(s) submitted to our laboratory July 31, 2018
For your reference, these analyses have been assigned our service request number **R1807155.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Jason Fagel

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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ALS Environmental

Client: New York State DEC
Project: LCI 2018
Sample Matrix: Water

Service Request: R1807155
Date Received: 07/31/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 07/31/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 08/24/2018

Sample Receipt Information

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1807155-001	18SRB005	7/30/2018	1120
R1807155-002	18SRB005 Diss	7/30/2018	1120
R1807155-003	18SRB006	7/30/2018	1135
R1807155-004	18SRB006 Diss	7/30/2018	1135
R1807155-005	18SRB001	7/30/2018	1315
R1807155-006	18SRB001 Diss	7/30/2018	1315
R1807155-007	18SRB002	7/30/2018	1330
R1807155-008	18SRB002 Diss	7/30/2018	1330
R1807155-009	18SRB003	7/30/2018	1505
R1807155-010	18SRB003 Diss	7/30/2018	1505
R1807155-011	18SRB004	7/30/2018	1510
R1807155-012	18SRB004 Diss	7/30/2018	1510

CHAIN OF CUSTODY

New York State Department of Environmental Conservation – Division of Water

Project Name: LCI	**Project Number:** LCI2018	**NYSDEC SDG:**
Sampler Collector: Sara Gonzalez	**Sampler Signature:** Sara M. Gonzalez	**Sampler Phone No.:** 845-216-9575
Project Manager: Alene Onion	**X Report to Project Manager** **Report to:**	☐ **Bill to Project Manager** **Bill to:** Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	**Address:**	**Address:** 625 Broadway, 4th Floor Albany, NY 12233-3502
Phone: (518) 402-8166	**Phone:**	**Phone:** 518-402-8156
Email: alene.onion@dec.ny.gov	**Email:**	**Email:** Jason.fagel@dec.ny.gov

Matrix Codes:
WW = Wastewater
GW = Groundwater
AW = Ambient Water
SE = Sediment
SL = Sludge
T = Tissue
O = Other _____

Preservative Codes:
0 = Cool to < 6°C
1 = HCL
2 = HNO_3
3 = H_2SO_4
4 = NaOH
5 = Zn. Acetate
6 = MeOH
7 = NaHSO4
8 = Other_____

Analyses Ordered (list)

NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	3: TP, NH4, NOx, TKN	3: TP, NH4, NOx, TKN, NO3 ANC	3: Dissolved TOP4	2: Fe, Mn, As,	2: Ca, Mg, Na, K ANC	2: Fe, Mn, As, Ca, Mg, Na, K	0: Color	3: TOC	3: DOC ANC	0: Alkalinity	0: SO4 & UV-254	0: SO4, Cl ANC	0: SO4, Cl, UV-254	0: Chlorophyll a | Vol (ml)		Location Info
18SRB005	7-30-18	11:20	AW	7	X		X				X		X	X	X			X	1000	Goey - epi
18SRB006	7-30-18	11:35	AW	6	X		X	X			X		X		X					Goey P - hypo
18SRB001	7-30-18	13:15	AW	6	X		X				X	X		X				X	750	Arnold L - epi
18SRB002	7-30-18	13:30	AW	4	X		X				X	X								Arnold L - hypo
18SRB003	7-30-18	15:05	AW	7	X		X				X		X	X	X			X	500	Gilbert L - epi
18SRB004	7-30-18	15:10	AW	6	X		X	X			X		X		X					Gilbert L - hypo

Special Analysis Instructions:

Relinquished by Sampler:	Date:	Time:	Received by:	Date:	Time:
Sara Gonzalez	07/30	5:00 pm			
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Relinquished by:	**Date:**	**Time:**	**Received by Laboratory:**	**Date:** 7/31/18	**Time:** 0925

Laboratory Receipt Notes:

Sample Te
Properly P
Samples I

R1807155 5
New York State DEC
LCI 2018

Cooler Receipt and Preservation Check Form

R1807155 5
New York State DEC
LCI 2018

Project/Client LCI Folder Number

Cooler received on 7/31/18 by: @

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 7/31/18 Time: 0930 ID: (IR#7) IR#9 From: Temp Blank (Sample Bottle)

Observed Temp (°C)	1.3						
Correction Factor (°C)	-						
Corrected Temp (°C)	1.3						
Temp from:Type of bottle	-						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 7/31/18 at 0935
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 7/31/18 Time: 1314 by: @

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	204518	HNO_3	✓		1117092	7/19				
≤2	↓	H_2SO_4	✓		190642, 2418 0071	↓				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 18-06-25, 8-072-001, 812147-01
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: @
PC Secondary Review: MM 8/1/18

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Approved	New Jersey ID # NY004	
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: New York State DEC **Service Request:** R1807155
Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 5910 B	Water	UV254
SM20 10200 H	Water	Chlorophyll A

Client: New York State DEC **Service Request:** R1807155
Project: LCI 2018/LCI2018

Sample Name: 18SRB005 **Date Collected:** 07/30/18
Lab Code: R1807155-001 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5910 B		MROGERSON
SM20 10200 H		GNITAJOUPPI

Sample Name: 18SRB005 Diss **Date Collected:** 07/30/18
Lab Code: R1807155-002 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI
SM 5310 C-2000(2011)		CWOODS

Sample Name: 18SRB006 **Date Collected:** 07/30/18
Lab Code: R1807155-003 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		MROGERSON

Client: New York State DEC **Service Request:** R1807155
Project: LCI 2018/LCI2018

Sample Name: 18SRB006 Diss **Date Collected:** 07/30/18
Lab Code: R1807155-004 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI
SM 5310 C-2000(2011)		CWOODS

Sample Name: 18SRB001 **Date Collected:** 07/30/18
Lab Code: R1807155-005 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS
SM20 10200 H		GNITAJOUPPI

Sample Name: 18SRB001 Diss **Date Collected:** 07/30/18
Lab Code: R1807155-006 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI

Sample Name: 18SRB002 **Date Collected:** 07/30/18
Lab Code: R1807155-007 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI

Client: New York State DEC **Service Request:** R1807155
Project: LCI 2018/LCI2018

Sample Name: 18SRB002 **Date Collected:** 07/30/18
Lab Code: R1807155-007 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5310 C-2000(2011)		CWOODS

Sample Name: 18SRB002 Diss **Date Collected:** 07/30/18
Lab Code: R1807155-008 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI

Sample Name: 18SRB003 **Date Collected:** 07/30/18
Lab Code: R1807155-009 **Date Received:** 07/31/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5910 B		MROGERSON
SM20 10200 H		GNITAJOUPPI

Client: New York State DEC
Project: LCI 2018/LCI2018

Service Request: R1807155

Sample Name: 18SRB003 Diss
Lab Code: R1807155-010
Sample Matrix: Water

Date Collected: 07/30/18
Date Received: 07/31/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI
SM 5310 C-2000(2011)		CWOODS

Sample Name: 18SRB004
Lab Code: R1807155-011
Sample Matrix: Water

Date Collected: 07/30/18
Date Received: 07/31/18

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		MROGERSON

Sample Name: 18SRB004 Diss
Lab Code: R1807155-012
Sample Matrix: Water

Date Collected: 07/30/18
Date Received: 07/31/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	GNITAJOUPPI
SM 5310 C-2000(2011)		CWOODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
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Metals

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METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0723
Project No.:	R1807155	**Date Collected:**	7/30/2018
Project Name:		**Date Received:**	7/31/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18SRB006** **Lab Code:** **R1807155-003**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**1.0**	**U**	
Iron	**200.7**	**100**	**13.0**	**1.0**	**319**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**361**		

% Solids: **0.0**

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0723
Project No.:	R1807155	**Date Collected:**	7/30/2018
Project Name:		**Date Received:**	7/31/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18SRB004** **Lab Code:** **R1807155-011**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**1.0**	**U**	
Iron	**200.7**	**100**	**13.0**	**1.0**	**958**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**668**		

% Solids: **0.0**

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 11:20
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB005	**Basis:**	NA
Lab Code:	R1807155-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**8.0**		mg/L	2.0	1	08/07/18 04:37	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	08/13/18 18:30	NA	
Chlorophyll A	SM20 10200 H	**1.46**		ug/L	0.040	1	08/20/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	**16.0**		ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	08/17/18 16:00	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.26**		mg/L	0.10	1	08/19/18 14:58	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.24**		pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	08/16/18 16:07	08/16/18	
Sulfate	300.0	**3.3**		mg/L	2.0	10	07/31/18 21:28	NA	
UV254	SM 5910 B	**0.0350**		cm-1	-	1	07/31/18 19:21	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 11:20
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB005 Diss	**Basis:**	NA
Lab Code:	R1807155-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**3.0**		mg/L	1.0	1	08/06/18 21:35	NA	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	08/15/18 17:10	08/10/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 11:35
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB006	**Basis:**	NA
Lab Code:	R1807155-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0421**	mg/L	0.0050	1	08/13/18 18:46	NA	
Color, True	SM 2120 B-2001(2011)	**26.0**	ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0093**	mg/L	0.0020	1	08/17/18 16:02	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.43**	mg/L	0.10	1	08/19/18 13:37	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.97**	pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	**0.0167**	mg/L	0.0050	1	08/16/18 16:11	08/16/18	
Sulfate	300.0	**2.7**	mg/L	2.0	10	07/31/18 21:34	NA	
UV254	SM 5910 B	**0.0460**	cm-1	-	1	07/31/18 19:21	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 11:35
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB006 Diss	**Basis:**	NA
Lab Code:	R1807155-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**2.5**		mg/L	1.0	1	08/06/18 21:56	NA	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	08/15/18 17:11	08/10/18	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 13:15
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB001	**Basis:**	NA
Lab Code:	R1807155-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**17.6**		mg/L	2.0	1	08/07/18 04:45	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	08/13/18 19:02	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.3**		mg/L	1.0	1	08/08/18 09:32	NA	
Chlorophyll A	SM20 10200 H	**1.53**		ug/L	0.11	2	08/20/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	**15.0**		ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0038**		mg/L	0.0020	1	08/17/18 16:03	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.23**		mg/L	0.10	1	08/19/18 13:37	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.53**		pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	08/16/18 16:12	08/16/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 13:15
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB001 Diss	**Basis:**	NA
Lab Code:	R1807155-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/15/18 17:12	08/10/18	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 13:30
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB002	**Basis:**	NA
Lab Code:	R1807155-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0485**	mg/L	0.0050	1	08/13/18 19:18	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**2.1**	mg/L	1.0	1	08/08/18 16:59	NA	
Color, True	SM 2120 B-2001(2011)	**38.0**	ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0569**	mg/L	0.0020	1	08/17/18 16:04	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.35**	mg/L	0.10	1	08/19/18 13:38	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.11**	pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	**0.0301**	mg/L	0.0050	1	08/16/18 16:13	08/16/18	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 13:30
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB002 Diss	**Basis:**	NA
Lab Code:	R1807155-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0055**	mg/L	0.0050	1	08/15/18 17:13	08/10/18	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 15:05
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB003	**Basis:**	NA
Lab Code:	R1807155-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**15.6**		mg/L	2.0	1	08/07/18 04:58	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	08/13/18 19:35	NA	
Chlorophyll A	SM20 10200 H	**1.85**		ug/L	0.080	1	08/20/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	**22.0**		ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	08/17/18 16:06	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.39**		mg/L	0.10	1	08/19/18 13:39	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.36**		pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	08/16/18 16:14	08/16/18	
Sulfate	300.0	**3.4**		mg/L	2.0	10	07/31/18 21:40	NA	
UV254	SM 5910 B	**0.0875**		cm-1	-	1	07/31/18 19:21	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 15:05
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB003 Diss	**Basis:**	NA
Lab Code:	R1807155-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.0**		mg/L	1.0	1	08/06/18 22:16	NA	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	08/15/18 17:14	08/10/18	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 15:10
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB004	**Basis:**	NA
Lab Code:	R1807155-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	08/13/18 19:51	NA	
Color, True	SM 2120 B-2001(2011)	**39.0**		ColorUnits	1.0	1	07/31/18 12:10	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	08/17/18 16:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.36**		mg/L	0.10	1	08/19/18 13:39	08/16/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.06**		pH Units	-	1	07/31/18 15:10	NA	
Phosphorus, Total	365.1	**0.0355**		mg/L	0.0050	1	08/16/18 16:17	08/16/18	
Sulfate	300.0	**3.5**		mg/L	2.0	10	07/31/18 21:46	NA	
UV254	SM 5910 B	**0.126**		cm-1	-	1	07/31/18 19:21	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18 15:10
Sample Matrix:	Water	**Date Received:**	07/31/18 09:25
Sample Name:	18SRB004 Diss	**Basis:**	NA
Lab Code:	R1807155-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.1**	mg/L	1.0	1	08/08/18 06:23	NA	
Phosphorus, Dissolved	365.1	**0.0059**	mg/L	0.0050	1	08/15/18 17:15	08/10/18	

QC Summary Forms

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Metals

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METALS

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BLANKS

Contract: R1807155

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0723

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	MS
Iron	13.00	U	13.00	U	13.00	U	13.00	U	13.000	U	P
Manganese	1.70	U	1.70	U	1.70	U	1.70	U	1.700	U	P

Comments:

METALS

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BLANKS

Contract: R1807155

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0723

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			0.39	U	0.39	U	0.39	U			MS
Iron			13.00	U	13.00	U					P
Manganese			1.70	U	1.70	U					P

Comments:

METALS

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BLANKS

Contract: R1807155

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0723

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			0.39	U							MS

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1807155

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0723

Solid LCS Source: _____

Aqueous LCS Source: ACCUSTANDARD

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	20.0	20.1	100					
Iron	1000	1010	101					
Manganese	500	522	104					

Comments: _____

General Chemistry

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Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1807155-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	08/07/18 02:51	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	08/13/18 17:58	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	08/06/18 11:47	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	08/08/18 00:50	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	08/17/18 15:19	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	08/19/18 13:28	08/16/18	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	08/15/18 16:54	08/10/18	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	08/16/18 16:04	08/16/18	
Sulfate	300.0	0.20	U	mg/L	0.20	1	07/31/18 21:05	NA	
UV254	SM 5910 B	**0.00200**		cm-1	-	1	07/31/18 19:21	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1807155-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	08/08/18 10:14	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	08/17/18 16:09	

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	08/16/18
		Date Extracted:	08/16/18

Duplicate Matrix Spike Summary
Phosphorus, Total

Sample Name:	18SRB005	**Units:**	mg/L
Lab Code:	R1807155-001	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike R1807155-001MS			Duplicate Matrix Spike R1807155-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Total	0.0050 U	0.0273	0.0250	109	0.0273	0.0250	109	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	New York State DEC	**Service Request:**	R1807155
Project:	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	08/17/18

Duplicate Matrix Spike Summary
Nitrate+Nitrite as Nitrogen

Sample Name:	18SRB004	**Units:**	mg/L
Lab Code:	R1807155-011	**Basis:**	NA
Analysis Method:	353.2		

		Matrix Spike R1807155-011MS			Duplicate Matrix Spike R1807155-011DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate+Nitrite as Nitrogen	0.0020 U	0.489	0.500	98	0.490	0.500	98	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	New York State DEC	**Service Request:**	R1807155
Project	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	08/07/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18SRB005	**Units:**	mg/L
Lab Code:	R1807155-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1807155-001DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	8.0	8.0	8.00	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	New York State DEC	**Service Request:**	R1807155
Project	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	07/31/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18SRB006	**Units:**	ColorUnits
Lab Code:	R1807155-003	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1807155-003DUP Result	Average	RPD	RPD Limit
Color, True	SM 2120 B-2001(2011)	1.0	26.0	26.0	26.0	<1	5

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	New York State DEC	**Service Request:**	R1807155
Project	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	07/31/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18SRB006	**Units:**	pH Units
Lab Code:	R1807155-003	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1807155-003DUP Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	-	6.97	6.96	6.97	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	New York State DEC	**Service Request:**	R1807155
Project	LCI 2018/LCI2018	**Date Collected:**	07/30/18
Sample Matrix:	Water	**Date Received:**	07/31/18
		Date Analyzed:	07/31/18

Replicate Sample Summary

General Chemistry Parameters

Sample Name:	18SRB003	**Units:**	cm-1
Lab Code:	R1807155-009	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1807155-009DUP Result	Average	RPD	RPD Limit
UV254	SM 5910 B	-	0.0875	0.0890	0.0883	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request: R1807155
Date Analyzed: 07/31/18 - 08/19/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1807155-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	17.6	20.0	88	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.494	0.500	99	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.68	10.0	97	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.2	10.0	102	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.512	0.500	102	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.36	2.50	95	70-130
Phosphorus, Dissolved	365.1	0.0233	0.0250	93	70-130
Phosphorus, Total	365.1	0.0236	0.0250	94	70-130
Sulfate	300.0	2.04	2.00	102	70-130

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request: R1807155
Date Analyzed: 08/08/18 - 08/17/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1807155-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.67	10.0	97	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.515	0.500	103	70-130