

Service Request No:R1807212

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 August 01, 2018 For your reference, these analyses have been assigned our service request number **R1807212**.

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

Jamansto

CC: Jason Fagel



Narrative Documents

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



Client: New York State DEC Service Request: R1807212

Project: LCI 2018 Date Received: 08/01/2018 - 08/02/2018

Sample Matrix: Water

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:

Sixteen water samples were received for analysis at ALS Environmental on 08/01/2018 - 08/02/2018. 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.

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Date	08/29/2018
Daic	00/23/2010



Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Service Request:R1807212

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1807212-001	18LIS009	7/31/2018	0955
R1807212-002	18LIS009 Diss	7/31/2018	0955
R1807212-003	18LIS010	7/31/2018	1000
R1807212-004	18LIS010 Diss	7/31/2018	1000
R1807212-005	18LIS047	7/31/2018	1225
R1807212-006	18LIS047 Diss	7/31/2018	1225
R1807212-007	18LIS053	7/31/2018	1345
R1807212-008	18LIS053 Diss	7/31/2018	1345
R1807212-009	18LIS023	8/1/2018	0848
R1807212-010	18LIS023 Diss	8/1/2018	0848
R1807212-011	18LIS041	8/1/2018	1016
R1807212-012	18LIS041 Diss	8/1/2018	1016
R1807212-013	18LIS019	8/1/2018	1120
R1807212-014	18LIS019 Diss	8/1/2018	1120
R1807212-015	18LIS020	8/1/2018	1130
R1807212-016	18LIS020 Diss	8/1/2018	1130

CHAIN OF CUSTODY Page $\frac{1}{2}$ of $\frac{1}{2}$

New York State Department of Environmental Conservation -

Project Name: LCI	Project Number: LCI2018	NYSDEC SDG:
Sampler Collector:	Sampler Signature:	Sampler Phone No.: 945-716-9575
Project Manager: Alene Onion	X Report to Project Manage Report to:	Bill to Project Manager Bill to: Jason Fagel
Address: 625 Broadway, 4 th Floor Albany, NY 12233-3502	Address:	Address: 625 Broadway, 4 th 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.my.gov
	Analyses Ordered (lis	Preservative Codes:
		0 0 = Cool to < 6°C

Division of water	E	maii: alene	.onion@c	dec.n	y.gov			E	Email	:								Email: Jason.fagel@dec.ny.gov			
1									: <i>I</i>	Ana	lyse	s 0	rde	red	(list	:)				Preservative Codes:	
Matrix Codes:						3			2		0		3		0		0		0	0 = Cool to < 6°C 1 = HCL	
WW = Wastewater • GW = Groundwater						ANC	一		ANC			Ì	ANC			ANC				2 = HNO ₃	
AW = Ambient Water		61		ŗrs		ğ				а, К										3 = H₂SO₄ 4 = NaOH	
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O = Other	Collection	Collection	ပိ	Containers	TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3	Q.		Α,	Ca,					UV-254		CI, UV-254	,	Chlorophyll a Vol (ml)	8 = Other	
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6 of 55



Cooler Receipt and Preservation Check Form

Project/Clie	ent <i>LC</i>	I			Folde	r Number_				- <u>' ' (1881</u>	Biille (B)	an in in a buille		
Cooler receiv	ed on 8/	1/18	by:_ _€	GD.	_	COURIER	: ALS	(UPS)	FEDE:					
1 Were Cu	ustody seals or	n outside of coole			Y N	5a Perc	hlorate	samples F	nave rec	quired he	adspac	xe?	YN	(A)
2 Custody	papers prope	erly completed (ir	ık, sign	ed)?	ÝN	5b Did	VOA via	ls, Alk, br	Sulfid	e have si	g* bub	obles?	7 (Ñ) NA
3 Did all b	ottles arrive in	good condition	(unbro	ken)?	(Y) N	6 When	re did the	e bottles of	originat	e?	ÁLŚ/	ROD (CLIEN	T
4 Circle:	Wet'lce Dr	y Ice Gel packs	pres	sent?	N (V	7 Soil	VOA rec	eived as:	Ві	ılk E	ncore	5035se	t N	A
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Corrected Te	emp (°C)	10.0												
Temp from:	Type of bottle	Bula	e.											
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If out of I	Temnerature	, note packing/io	e cond	ition:		dce me	ted &	oorly Pac	ckedYd	escribed	helow) Sa	me D:	ay Rule
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Labels secondary reviewed by: Dh.

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

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r16.doc 7 of 55 3/12/18



Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



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 õNotesö 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 õimmediateö 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 (×100% 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 Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
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 laboratory 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.alselobal.com/locations/americas/north-america/usa/new-vork/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: R1807212

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

Analyst Summary report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

 Sample Name:
 18LIS009
 Date Collected: 07/31/18

 Lab Code:
 R1807212-001
 Date Received: 08/1/18

Sample Matrix: Water

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

 Sample Name:
 18LIS009 Diss
 Date Collected: 07/31/18

 Lab Code:
 R1807212-002
 Date Received: 08/1/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPISM 5310 C-2000(2011)CWOODS

 Sample Name:
 18LIS010
 Date Collected:
 07/31/18

 Lab Code:
 R1807212-003
 Date Received:
 08/1/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1807212

 Sample Name:
 18LIS010 Diss
 Date Collected: 07/31/18

 Lab Code:
 R1807212-004
 Date Received: 08/1/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LIS047 Date Collected: 07/31/18

Lab Code: R1807212-005 **Date Received:** 08/1/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By
300.0 AMOSES

NSMITH GNITAJOUPPI

353.2 GNITAJOUPPI

365.1 GNITAJOUPPI GNITAJOUPPI ASTM D6919-09 CWOODS

SM 2120 B-2001(2011)

SCYMBAL

SM 2320 B-1997(2011) CWOODS SM 5310 C-2000(2011) CWOODS

SM 5910 B MROGERSON SM20 10200 H NSMITH

 Sample Name:
 18LIS047 Diss
 Date Collected:
 07/31/18

 Lab Code:
 R1807212-006
 Date Received:
 08/1/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Analyst Summary report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

 Sample Name:
 18LIS053
 Date Collected: 07/31/18

 Lab Code:
 R1807212-007
 Date Received: 08/1/18

Sample Matrix: Water

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

 Sample Name:
 18LIS053 Diss
 Date Collected: 07/31/18

 Lab Code:
 R1807212-008
 Date Received: 08/1/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18LIS023
 Date Collected: 08/1/18

 Lab Code:
 R1807212-009
 Date Received: 08/2/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

 Sample Name:
 18LIS023 Diss
 Date Collected: 08/1/18

 Lab Code:
 R1807212-010
 Date Received: 08/2/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LIS041 Date Collected: 08/1/18

Lab Code: R1807212-011 **Date Received:** 08/2/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

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 NSMITH

Sample Name: 18LIS041 Diss Date Collected: 08/1/18

Lab Code: R1807212-012 **Date Received:** 08/2/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LIS019 Date Collected: 08/1/18

Lab Code: R1807212-013 **Date Received:** 08/2/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

Nowith Gill Adolf I

353.2 GNITAJOUPPI

365.1 GNITAJOUPPI GNITAJOUPPI

Printed 8/29/2018 1:38:09 PM Superset Reference:18-0000475664 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

Water

Sample Name: 18LIS019 **Date Collected:** 08/1/18

Lab Code: R1807212-013 **Date Received:** 08/2/18

Sample Matrix: Water

Analyzed By Extracted/Digested By Analysis Method

ASTM D6919-09 **AMOSES** SM 2320 B-1997(2011) **CWOODS**

SM 5310 C-2000(2011) **CWOODS**

SM20 10200 H **NSMITH**

Sample Name: 18LIS019 Diss **Date Collected:** 08/1/18

Lab Code: R1807212-014 Date Received: 08/2/18 Sample Matrix: Water

Analyzed By Analysis Method Extracted/Digested By

365.1 **KWONG GNITAJOUPPI**

Sample Name: 18LIS020 **Date Collected:** 08/1/18

Lab Code: R1807212-015 **Date Received:** 08/2/18 Sample Matrix:

Analyzed By

Analysis Method Extracted/Digested By 351.2 **NSMITH GNITAJOUPPI** 353.2 **GNITAJOUPPI**

365.1 **GNITAJOUPPI GNITAJOUPPI**

AMOSES ASTM D6919-09

SM 2120 B-2001(2011) **SCYMBAL**

SM 5310 C-2000(2011) **CWOODS**

Sample Name: 18LIS020 Diss **Date Collected:** 08/1/18 Lab Code: R1807212-016

Date Received: 08/2/18 Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 **GNITAJOUPPI KWONG**

Printed 8/29/2018 1:38:09 PM Superset Reference:18-0000475664 rev 00



INORGANIC PREPARATION METHODS

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	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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

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



Sample Results

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Metals

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METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0730

Project No.: R1807212 Date Collected: 7/31/2018

Project Name: Date Received: 8/1/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LIS010 Lab Code: R1807212-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	Ū	
Iron	200.7	100	13.0	1.0	42.6	J	
Manganese	200.7	10.0	1.7	1.0	117		

% Solids: 0.0

Comments:



General Chemistry

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Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LIS009

Lab Code: R1807212-001

Service Request: R1807212

Date Collected: 07/31/18 09:55

Date Received: 08/01/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	42.8	mg/L	2.0	1	08/07/18 07:58	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	08/15/18 12:58	NA	
Chlorophyll A	SM20 10200 H	1.90	ug/L	0.053	1	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	22.0	ColorUnits	1.0	1	08/02/18 09:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/17/18 16:29	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.55	mg/L	0.10	1	08/22/18 12:20	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.30	pH Units	-	1	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.0091	mg/L	0.0050	1	08/16/18 16:24	08/16/18	
Sulfate	300.0	8.6	mg/L	2.0	10	08/15/18 21:36	NA	
UV254	SM 5910 B	0.0535	cm-1	-	1	08/01/18 18:45	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1807212

Date Collected: 07/31/18 09:55

Date Received: 08/01/18 09:30

Sample Name: 18LIS009 Diss Basis: NA

Lab Code: R1807212-002

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	3.7	mg/L	1.0	1	08/11/18 00:24	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/27/18 11:58	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LIS010 Basis: NA

Lab Code: R1807212-003

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	08/15/18 15:06	NA	
Color, True	SM 2120 B-2001(2011)	21.0	ColorUnits	1.0	1	08/02/18 09:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/17/18 16:30	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.37	mg/L	0.10	1	08/22/18 12:21	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.09	pH Units	-	1	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.0162	mg/L	0.0050	1	08/16/18 16:27	08/16/18	
Sulfate	300.0	8.2	mg/L	2.0	10	08/15/18 21:42	NA	
UV254	SM 5910 B	0.0490	cm-1	-	1	08/01/18 18:45	NA	

Service Request: R1807212 **Date Collected:** 07/31/18 10:00

Date Received: 08/01/18 09:30

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

Service Request: R1807212

Date Collected: 07/31/18 10:00

Date Received: 08/01/18 09:30

Sample Name: 18LIS010 Diss Basis: NA

Lab Code: R1807212-004

Sample Matrix:

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	2.9	mg/L	1.0	1	08/11/18 00:45	NA	
Phosphorus, Dissolved	365.1	0.0054	mg/L	0.0050	1	08/27/18 12:01	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LIS047

Lab Code: R1807212-005

Service Request: R1807212

Date Collected: 07/31/18 12:25

Date Received: 08/01/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	73.6	mg/L	2.0	1	08/07/18 08:22	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0310	mg/L	0.0050	1	08/15/18 15:22	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.2	mg/L	1.0	1	08/11/18 15:10	NA	
Chlorophyll A	SM20 10200 H	89.7	ug/L	3.2	20	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	42.0	ColorUnits	1.0	1	08/02/18 09:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0664	mg/L	0.0020	1	08/17/18 16:39	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.51	mg/L	0.10	1	08/22/18 12:22	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.20	pH Units	-	1	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.0734	mg/L	0.0050	1	08/16/18 16:31	08/16/18	
Sulfate	300.0	9.0	mg/L	2.0	10	08/15/18 21:59	NA	
UV254	SM 5910 B	0.189	cm-1	-	1	08/01/18 18:45	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Wa

Water

Service Request: R1807212

Date Collected: 07/31/18 12:25

Date Received: 08/01/18 09:30

Sample Name: 18LIS047 Diss Basis: NA

Lab Code: R1807212-006

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus Dissolved	365.1	0.0116	mg/I	0.0050	1	08/27/18 12:02	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Date Received: 08/01/18 09:30

Service Request: R1807212 **Date Collected:** 07/31/18 13:45

Sample Name: 18LIS053 Basis: NA

Lab Code: R1807212-007

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	78.0	mg/L	2.0	1	08/07/18 08:33	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0255	mg/L	0.0050	1	08/15/18 15:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.2	mg/L	1.0	1	08/11/18 15:31	NA	
Chlorophyll A	SM20 10200 H	27.0	ug/L	3.2	20	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	180	ColorUnits	10	10	08/02/18 09:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0628	mg/L	0.0020	1	08/23/18 16:39	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.26	mg/L	0.10	1	08/22/18 12:23	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.04	pH Units	-	10	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.0783	mg/L	0.0050	1	08/16/18 16:32	08/16/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1807212

Date Collected: 07/31/18 13:45

Date Received: 08/01/18 09:30

Sample Name: 18LIS053 Diss Basis: NA

Lab Code: R1807212-008

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0144	mg/L	0.0050	1	08/27/18 12:04	08/21/18	

Analytical Report

Client: New York State DEC **Project:**

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LIS023

Lab Code: R1807212-009 **Service Request:** R1807212

Date Collected: 08/01/18 08:48

Date Received: 08/02/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	116	mg/L	2.0	1	08/07/18 08:38	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0318	mg/L	0.0050	1	08/15/18 00:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	16.3	mg/L	1.0	1	08/13/18 14:04	NA	
Chlorophyll A	SM20 10200 H	175	ug/L	5.3	20	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	95.0	ColorUnits	5.0	5	08/02/18 13:20	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0065	mg/L	0.0020	1	08/17/18 16:32	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	4.56	mg/L	0.10	1	08/22/18 12:23	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.01	pH Units	-	5	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.473	mg/L	0.050	10	08/16/18 16:51	08/16/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: V

Lab Code:

Water

R1807212-010

Service Request: R1807212

Date Collected: 08/01/18 08:48

Date Received: 08/02/18 09:30

Sample Name: 18LIS023 Diss

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0298	mg/L	0.0050	1	08/27/18 12:05	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LIS041

Lab Code: R1807212-011

Service Request: R1807212

Date Collected: 08/01/18 10:16

Date Received: 08/02/18 09:30

Basis: NA

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	0
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	105	mg/L	2.0	1	08/07/18 08:45	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0528	mg/L	0.0050	1	08/15/18 00:23	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.3	mg/L	1.0	1	08/13/18 14:25	NA	
Chlorophyll A	SM20 10200 H	16.3	ug/L	0.64	4	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	42.0	ColorUnits	1.0	1	08/02/18 13:20	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.504	mg/L	0.0020	1	08/17/18 16:33	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.83	mg/L	0.10	1	08/22/18 12:24	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.98	pH Units	-	1	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.0874	mg/L	0.0050	1	08/16/18 16:34	08/16/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1807212

Date Collected: 08/01/18 10:16

Date Received: 08/02/18 09:30

Sample Name: 18LIS041 Diss Basis: NA

Lab Code: R1807212-012

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0223	mg/L	0.0050	1	08/27/18 12:08	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

LCI 2018/LCI2018

Date Received: 08/02/18 09:30

Service Request: R1807212 **Date Collected:** 08/01/18 11:20

Basis: NA

Sample Name: 18LIS019

Lab Code: R1807212-013

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	50.4	mg/L	2.0	1	08/07/18 08:50	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.179	mg/L	0.0050	1	08/15/18 00:39	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.8	mg/L	1.0	1	08/13/18 18:00	NA	
Chlorophyll A	SM20 10200 H	18.3	ug/L	0.64	4	08/25/18 12:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0197	mg/L	0.0020	1	08/17/18 16:35	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.18	mg/L	0.10	1	08/22/18 12:25	08/21/18	
Phosphorus, Total	365.1	0.178	mg/L	0.025	5	08/16/18 16:45	08/16/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1807212

Date Collected: 08/01/18 11:20

Date Received: 08/02/18 09:30

Sample Name: 18LIS019 Diss Basis: NA

Lab Code: R1807212-014

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0772	mg/L	0.0050	1	08/27/18 12:09	08/21/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18LIS020

Lab Code: R1807212-015

Service Request: R1807212

Date Collected: 08/01/18 11:30

Date Received: 08/02/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.194	mg/L	0.0050	1	08/15/18 00:55	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.8	mg/L	1.0	1	08/13/18 18:29	NA	
Color, True	SM 2120 B-2001(2011)	100	ColorUnits	5.0	5	08/02/18 13:20	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0191	mg/L	0.0020	1	08/17/18 16:36	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.00	mg/L	0.10	1	08/22/18 12:29	08/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	8.12	pH Units	-	5	08/04/18 10:00	NA	*
Phosphorus, Total	365.1	0.143	mg/L	0.025	5	08/16/18 16:50	08/16/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

18LIS020 Diss **Sample Name:** Lab Code: R1807212-016

Service Request: R1807212 **Date Collected:** 08/01/18 11:30

Date Received: 08/02/18 09:30

Basis: NA

Date Extracted

08/21/18

Inorganic Parameters

Analysis Analyte Name Method Result Units MRL Dil. **Date Analyzed** 0.0780 08/27/18 12:10 Phosphorus, Dissolved 365.1 mg/L 0.0050



QC Summary Forms

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-3-

BLANKS

Contract:	R1807212			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0730
Preparation	Blank Matrix (soil/water):	WATER	_	
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): UG/1	_	

	Continuing Calibration Blank ug/L							Preparation Blank					
Analyte	ug/L	С	1	С	2	С	3	С			С		M
Arsenic	0.39	Ū	0.39	Ū	0.39	U	0.39	Ū		0.39	Ū		MS
Iron	13.00	Ū	13.00	Ū	13.00	U	13.00	ŭ		13.000	U	Ī	P
Manganese	1.70	Ū	1.70	Ū	1.70	U	1.70	Ū		1.700	Ū	Ī	P

-3-

BLANKS

Contract:	R1807212					
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0730
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concen	tration Units (ug/l	L, ppt, or mg/kg):	UG/L		

	Initial Calib. Blank		Continuing Calibration Blank ug/L							Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С			С		M
Arsenic			0.39	ŭ	0.39	ŭ	0.39	Ū				I	MS
Iron	1	ĺĺ	13.00	Ū	13.00	Ū	13.00	Ū				I	₽
Manganese			1.70	Ū	1.70	U	1.70	Ū				I	P

-3-

BLANKS

Contract:	R1807212			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0730
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Cont	inui	.ng Calibr	ation 1	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		M
Iron	İ		13.00	ַ								P
Manganese			1.70	Ū]	P

-7-

LABORATORY CONTROL SAMPLE

Contract: R	1807212				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	LCI0730
Solid LCS So	urce:				
Aqueous LCS	Source:	ACCUSTANDARD			

	Aqueou	ıs (ug/L			(mg/K			
Analyte	True	Found	%R	True	Found	С	Limits	%R
Arsenic	20.0	20.4	102					
Iron	1000	946	95					
Manganese	500	475	95					



General Chemistry

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Analytical Report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

Date Collected: NA

Pote Project: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

Lab Code: R1807212-MB1

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	08/07/18 04:54	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	08/14/18 20:38	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	08/10/18 13:45	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	08/10/18 23:44	NA	
Chlorophyll A	SM20 10200 H	0.40 U	ug/L	0.40	1	08/25/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	08/02/18 09:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/17/18 16:09	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	08/22/18 12:03	08/21/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/27/18 11:55	08/21/18	
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	08/15/18 20:43	NA	
UV254	SM 5910 B	0.0100	cm-1	-	1	08/01/18 18:45	NA	

Analytical Report

Client: New York State DEC Service Request: R1807212

Project: LCI 2018/LCI2018

Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

Lab Code: R1807212-MB2

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	08/07/18 08:12	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	08/15/18 11:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	08/13/18 10:46	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/23/18 16:21	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	08/22/18 12:25	08/21/18	

QA/QC Report

Client:New York State DECService Request:R1807212Project:LCI 2018/LCI2018Date Collected:07/31/18Sample Matrix:WaterDate Received:08/01/18Date Analyzed:08/16/18

Duplicate Matrix Spike Summary Phosphorus, Total

 Sample Name:
 18LIS009
 Units:
 mg/L

 Lab Code:
 R1807212-001
 Basis:
 NA

Analysis Method: 365.1 **Prep Method:** Method

Matrix SpikeDuplicate Matrix SpikeR1807212-001MSR1807212-001DMS

Date Extracted:

08/16/18

% Rec **RPD** Sample Spike Spike Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Phosphorus, Total 0.0091 0.0344 0.0250 101 0.0337 0.0250 75-125 20

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

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

QA/QC Report

Client:New York State DECService Request:R1807212Project:LCI 2018/LCI2018Date Collected:07/31/18Sample Matrix:WaterDate Received:08/01/18Date Analyzed:08/27/18

Date Extracted: 08/21/18

Duplicate Matrix Spike Summary Phosphorus, Dissolved

 Sample Name:
 18LIS009 Diss
 Units:
 mg/L

 Lab Code:
 R1807212-002
 Basis:
 NA

Analysis Method: 365.1 **Prep Method:** Method

Matrix SpikeDuplicate Matrix SpikeR1807212-002MSR1807212-002DMS

RPD Sample Spike Spike % Rec Analyte Name Result Result **Amount** % Rec Amount % Rec Limits **RPD** Limit Result Phosphorus, Dissolved 0.0050 U 0.0246 0.0250 98 0.0242 0.0250 20 75-125

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

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

QA/QC Report

Client: New York State DEC **Project:**

Water

LCI 2018/LCI2018

Service Request: Date Collected:

R1807212 07/31/18

Date Received:

08/01/18 08/15/18

Date Analyzed:

Duplicate Matrix Spike Summary

Sulfate

Sample Name: 18LIS047 **Units:**

mg/L

Lab Code:

Sample Matrix:

R1807212-005

Basis:

NA

Analysis Method:

300.0

Matrix Spike

Duplicate Matrix Spike

R1807212-005MS

R1807212-005DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Sulfate	9.0	31.3	20.0	112	30.5	20.0	107	75-125	3	20

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

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

QA/QC Report

Client: New York State DEC **Service Request:** R1807212 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/01/18 **Sample Matrix:** Water **Date Received:** 08/02/18 **Date Analyzed:** 08/22/18 **Date Extracted:** 08/21/18

Duplicate Matrix Spike Summary

Nitrogen, Total Kjeldahl (TKN)

 Sample Name:
 18LIS020
 Units:
 mg/L

 Lab Code:
 R1807212-015
 Basis:
 NA

Analysis Method: 351.2 **Prep Method:** Method

Matrix Spike Duplicate Matrix Spike

R1807212-015MS R1807212-015DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrogen, Total Kjeldahl (TKN)	1.00	3.32	2.50	93	2.60	2.50	64 *	75-125	24*	20

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

R1807212-001

LCI 2018/LCI2018

Sample Matrix: Water

Project

Lab Code:

Service Request: R1807212

Date Collected: 07/31/18

Date Received: 08/01/18 **Date Analyzed:** 08/07/18

Replicate Sample Summary

General Chemistry Parameters

Sample Name: 18LIS009

Units: mg/L

Basis: NA

Duplicate

Sample R1807212-

Sample **001DUP**

Analyte Name **Analysis Method** Result **MRL** Result **RPD** Limit Average Alkalinity, Total as CaCO3 SM 2320 B-1997(2011) 2.0 42.8 42.0 42.4

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Project LCI 2018/LCI2018

Water

Service Request: R1807212

Date Collected: 07/31/18

Date Received: 08/01/18 **Date Analyzed:** 08/01/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LIS010

Units: cm-1

Basis: NA

ne.

Sample Matrix:

Lab Code:

R1807212-003

Duplicate

Sample R1807212-

le.

Sample

003DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitUV254SM 5910 B-0.04900.0490<1</td>20

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC Service Request: R1807212

Project LCI 2018/LCI2018

Lab Code:

Date Collected: 07/31/18

Date Received: 08/01/18 Sample Matrix: Water

Date Analyzed: 08/07/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LIS047

Units: mg/L

R1807212-005

Basis: NA

Duplicate Sample

R1807212-

005DUP

Sample Analyte Name **Analysis Method** Result **RPD Limit MRL** Result Average Alkalinity, Total as CaCO3 SM 2320 B-1997(2011) 2.0 73.6 73.6 73.6

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

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

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1807212

Date Analyzed: 08/07/18 - 08/27/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1807212-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.0	20.0	100	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.487	0.500	97	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.3	10.0	103	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.85	10.0	98	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.515	0.500	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.32	2.50	93	70-130
Phosphorus, Dissolved	365.1	0.0241	0.0250	96	70-130
Phosphorus, Total	365.1	0.0236	0.0250	94	70-130
Sulfate	300.0	2.04	2.00	102	70-130

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1807212

Date Analyzed: 08/07/18 - 08/23/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1807212-LCS2

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	0.498	0.500	100	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.88	10.0	99	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.507	0.500	101	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.34	2.50	94	70-130