

Service Request No:R1808263

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 29, 2018 For your reference, these analyses have been assigned our service request number **R1808263**.

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

Jamanks

CC: Jason Fagel



## **Narrative Documents**



Client:New York State DECService Request: R1808263Project:LCI 2018Date Received: 08/29/2018

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:**

Ten water samples were received for analysis at ALS Environmental on 08/29/2018. 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.

	Jaman Sox
Approved by	<u> </u>

Date 09/20	)/2018



# Sample Receipt Information

Service Request:R1808263

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

### **SAMPLE CROSS-REFERENCE**

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1808263-001	18LCB021	8/28/2018	1300
R1808263-002	18LCB021 Diss	8/28/2018	1300
R1808263-003	18LCB022	8/28/2018	1305
R1808263-004	18LCB022 Diss	8/28/2018	1305
R1808263-005	18LCB007	8/28/2018	1123
R1808263-006	18LCB007 Diss	8/28/2018	1123
R1808263-007	18LCB017	8/28/2018	1512
R1808263-008	18LCB017 Diss	8/28/2018	1512
R1808263-009	18LCB018	8/28/2018	1517
R1808263-010	18LCB018 Diss	8/28/2018	1517

#### **CHAIN OF CUSTODY** Page \_\_\_\_ of \_\_\_ Project Number: LCI2018 **NYSDEC SDG:** Project Name: LCI Sampler Collector: Sampler Signature: Sampler Phone No.: Project Manager: Alene Onion X Report to Project Manager ☐ Bill to Project Manager Bill to: Jason Fagel Report to: Address: 625 Broadway, 4th Floor Address: 625 Broadway, 4th Floor Address: Albany, NY 12233-3502 Albany, NY 12233-3502 New York State Department of **Environmental Conservation –** Phone: 518-402-8156 Phone: (518) 402-8166 Phone: Division of Water Email: alene.onion@dec.ny.gov Email: Email: Jason.fagel@dec.ny.gov **Analyses Ordered (list) Preservative Codes: Matrix Codes:** 0 = Cool to < 6°C 3 3 1 = HCL WW = Wastewater ANC 2 = HNO<sub>3</sub> **GW** = Groundwater TP, NH4, NOx, TKN, NO3 3 = H<sub>2</sub>SO<sub>4</sub> of Containers AW = Ambient Water ğ 4 = NaOH **Collection Time** SE = Sediment 5 = Zn. Acetate Chlorophyll a | Vol (ml) TP, NH4, NOx, TKN Mg, 6 = MeOH Code SL = Sludge 7 = NaHSO4 T = Tissue SO4, CI, UV-254 Collection Dissolved TOP4 Ça, 8 = Other SO4 & UV-254 **o** = Other \_\_\_\_\_ Ca, Mg, Na, As, atrix Alkalinity Fc, Mn, / NYSDEC Color DOC TOC Ë **LCI Sample ID Location Info** チ Ø X X 756 Wose Pend-Epi 8-28-18 13:00 AW 18LCB021 Moose Pand- Hupo 13:05 6 Ø X X V 18 LCB027 8-28-18 AW 500 V Franklin Falls OFOI 8-28-18 11:23 Ø 18 CCBCW7 AW 1 Ø D D D 10wer Scranac - Epi 7 V 750 15:12 × IF LCBOIT 8-28-18 AW X N 18LC3018 15:17 AW Ø X Lower Saranac-Hopo 878-18 5 Special Analysis Instructions: R1808263 Received by: Date: Time: Relinguished by Sampler: p Time: Laborato E 20:15 Electronie Inc 8-28-18 Rolinguished by: Time: Received by: Sample Temp.: Properly Preserved: Y / N Received by Laboratory: Time:

6 of 48

8/29/18

0940

Samples Intact: Y / N

Relinquished by:

Date:



### Cooler Receipt and Preservation Check Form

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Project/Clie	ent	E,			Folc	ler Number_								
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1 Were Cu	stody seals or	outside of coole	er?			5a Perch	lorate s	amples	have rec	uired he	adspac	ce? Y	N (	NA)
2 Custody	papers prope	rly completed (ir	ık, sign	ed)? <b>(</b>	Y) N	5b Did V	OA via	ls (Alk.)	or Sulfide	e have s	ig* bul	bbles? Y		NA
3 Did all b	ottles arrive in	good condition	(unbrol	(en)?	Ý N	6 Where	e did the	bottles	originat	e?	ALS	/ROO C	LIENT	•
4 Circle:	Wet lce Dry	Ice Gel packs	pres	ent?	N	7 Soil V	OA rec	eived a	s: Bı	ılk E	ncore	5035set	MA	<b>&gt;</b>
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7 of 48<sup>==</sup>

3/12/18



## Miscellaneous Forms



### 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 Certifications<sup>1</sup>

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 <a href="https://www.alsglobal.com/locations/americas/north-

### **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: R1808263

**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: R1808263

Project: LCI 2018/LCI2018

 Sample Name:
 18LCB021
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-001
 Date Received:
 08/29/18

Sample Matrix: Water

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

 Sample Name:
 18LCB021 Diss
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-002
 Date Received:
 08/29/18

Sample Matrix: Water

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

 Sample Name:
 18LCB022
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-003
 Date Received:
 08/29/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1808263

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB022 Diss
 Date Collected: 08/28/18

 Lab Code:
 R1808263-004
 Date Received: 08/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LCB007 Date Collected: 08/28/18

**Lab Code:** R1808263-005 **Date Received:** 08/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011) BKALKMAN

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

SM20 10200 H GNITAJOUPPI

Sample Name: 18LCB007 Diss Date Collected: 08/28/18

**Lab Code:** R1808263-006 **Date Received:** 08/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB017 Date Collected: 08/28/18

**Lab Code:** R1808263-007 **Date Received:** 08/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH GNITAJOUPPI

Printed 9/20/2018 9:45:41 AM Superset Reference:18-0000478646 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1808263

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB017
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-007
 Date Received:
 08/29/18

Sample Matrix: Water

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

 Sample Name:
 18LCB017 Diss
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-008
 Date Received:
 08/29/18

Sample Matrix: Water

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

 Sample Name:
 18LCB018
 Date Collected:
 08/28/18

 Lab Code:
 R1808263-009
 Date Received:
 08/29/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Service Request: R1808263

Sample Name: 18LCB018 Diss Lab Code: R1808263-010

Sample Matrix: Water

**Date Collected:** 08/28/18

**Date Received:** 08/29/18

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS



### **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/ 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



# Metals

### METALS - 1 -

### INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808263 **Date Collected:** 8/28/2018

Project Name: Date Received: 8/29/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB022 Lab Code: R1808263-003

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	316		
Manganese	200.7	10.0	1.7	1.0	22.7		

% Solids: 0.0

Comments:

### METALS - 1 -

### INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808263 **Date Collected:** 8/28/2018

Project Name: Date Received: 8/29/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB018 Lab Code: R1808263-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	υ	
Iron	200.7	100	13.0	1.0	1120		
Manganese	200.7	10.0	1.7	1.0	519		

% Solids: 0.0

Comments:



# **General Chemistry**

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

Water **Date Received:** 08/29/18 09:40

18LCB021 **Basis:** NA

**Lab Code:** R1808263-001

### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	7.6	mg/L	2.0	1	09/05/18 01:23	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0101	mg/L	0.0050	1	09/11/18 18:17	NA	
Chlorophyll A	SM20 10200 H	1.66	ug/L	0.053	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	24.0	ColorUnits	1.0	1	08/29/18 13:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0349	mg/L	0.0020	1	09/13/18 13:33	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.45	mg/L	0.10	1	09/19/18 12:46	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.32	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0063	mg/L	0.0050	1	09/14/18 11:58	09/11/18	
Sulfate	300.0	2.8	mg/L	2.0	10	09/06/18 18:36	NA	
UV254	SM 5910 B	0.149	cm-1	-	1	08/29/18 16:21	NA	

Service Request: R1808263

Date Collected: 08/28/18 13:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808263

**Date Collected:** 08/28/18 13:00

**Date Received:** 08/29/18 09:40

Sample Name: 18LCB021 Diss Basis: NA

**Lab Code:** R1808263-002

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.5	mg/L	1.0	1	09/10/18 07:14	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 10:52	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808263

**Date Collected:** 08/28/18 13:05

**Date Received:** 08/29/18 09:40

Sample Name: 18LCB022 Basis: NA

**Lab Code:** R1808263-003

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0134	mg/L	0.0050	1	09/11/18 18:33	NA	
Color, True	SM 2120 B-2001(2011)	43.0	ColorUnits	1.0	1	08/29/18 13:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.416	mg/L	0.0020	1	09/13/18 13:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.25	mg/L	0.10	1	09/19/18 12:48	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.67	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0069	mg/L	0.0050	1	09/14/18 11:59	09/11/18	
Sulfate	300.0	2.5	mg/L	2.0	10	09/06/18 18:41	NA	
UV254	SM 5910 B	0.186	cm-1	-	1	08/29/18 16:21	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808263

**Date Collected:** 08/28/18 13:05

**Date Received:** 08/29/18 09:40

Sample Name: 18LCB022 Diss Basis: NA

**Lab Code:** R1808263-004

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.9	mg/L	1.0	1	09/10/18 09:13	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 10:55	09/11/18	

### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB007 Basis: NA

**Lab Code:** R1808263-005

### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	22.8	mg/L	2.0	1	09/05/18 01:28	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0251	mg/L	0.0050	1	09/11/18 18:49	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.4	mg/L	1.0	1	09/10/18 13:03	NA	
Chlorophyll A	SM20 10200 H	7.66	ug/L	0.80	10	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	46.0	ColorUnits	1.0	1	08/29/18 13:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0427	mg/L	0.0020	1	09/13/18 13:35	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.45	mg/L	0.10	1	09/19/18 12:49	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.19	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0178	mg/L	0.0050	1	09/14/18 12:03	09/11/18	

**Service Request:** R1808263 **Date Collected:** 08/28/18 11:23

**Date Received:** 08/29/18 09:40

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808263

**Date Collected:** 08/28/18 11:23

**Date Received:** 08/29/18 09:40

Sample Name: 18LCB007 Diss Basis: NA

**Lab Code:** R1808263-006

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0071	mg/L	0.0050	1	09/14/18 10:56	09/11/18	

### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB017

**Lab Code:** R1808263-007

Service Request: R1808263

**Date Collected:** 08/28/18 15:12

**Date Received:** 08/29/18 09:40

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	11.2	mg/L	2.0	1	09/05/18 01:36	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0079	mg/L	0.0050	1	09/11/18 19:05	NA	
Chlorophyll A	SM20 10200 H	2.48	ug/L	0.21	4	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	27.0	ColorUnits	1.0	1	08/29/18 13:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0025	mg/L	0.0020	1	09/13/18 13:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.40	mg/L	0.10	1	09/19/18 13:46	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.83	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0079	mg/L	0.0050	1	09/14/18 12:09	09/11/18	
Sulfate	300.0	3.1	mg/L	2.0	10	09/06/18 18:46	NA	
UV254	SM 5910 B	0.160	cm-1	-	1	08/29/18 16:21	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

Water

 Water
 Date Received: 08/29/18 09:40

 18LCB017 Diss
 Basis: NA

**Lab Code:** R1808263-008

### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	6.0	mg/L	1.0	1	09/10/18 09:34	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 10:58	09/11/18	

**Service Request:** R1808263 **Date Collected:** 08/28/18 15:12

Analytical Report

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

LCI 2018/LCI2018

Service Request: R1808263

**Date Collected:** 08/28/18 15:17 **Date Received:** 08/29/18 09:40

**Sample Matrix:** 

Water

Basis: NA

**Sample Name:** 18LCB018 Lab Code: R1808263-009

						Date	
Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
ASTM D6919-09	0.0329	mg/L	0.0050	1	09/11/18 19:21	NA	
SM 2120 B-2001(2011)	85.0	ColorUnits	5.0	5	08/29/18 13:30	NA	
353.2	0.102	mg/L	0.0020	1	09/13/18 13:38	NA	
351.2	0.35	mg/L	0.10	1	09/19/18 12:50	09/18/18	
SM 2120 B-2001(2011)	7.02	pH Units	-	5	09/01/18 08:30	NA	*
365.1	0.0208	mg/L	0.0050	1	09/14/18 12:54	09/11/18	
300.0	2.8	mg/L	2.0	10	09/06/18 18:51	NA	
SM 5910 B	0.231	cm-1	-	1	08/29/18 16:21	NA	
	ASTM D6919-09 SM 2120 B-2001(2011) 353.2 351.2 SM 2120 B-2001(2011) 365.1 300.0	ASTM D6919-09 0.0329 SM 2120 B-2001(2011) 85.0 353.2 0.102 351.2 0.35 SM 2120 B-2001(2011) 7.02 365.1 0.0208 300.0 2.8	ASTM D6919-09 0.0329 mg/L SM 2120 B-2001(2011) 85.0 ColorUnits 353.2 0.102 mg/L 351.2 0.35 mg/L SM 2120 B-2001(2011) 7.02 pH Units 365.1 0.0208 mg/L 300.0 2.8 mg/L	ASTM D6919-09         0.0329         mg/L         0.0050           SM 2120 B-2001(2011)         85.0         ColorUnits         5.0           353.2         0.102         mg/L         0.0020           351.2         0.35         mg/L         0.10           SM 2120 B-2001(2011)         7.02         pH Units         -           365.1         0.0208         mg/L         0.0050           300.0         2.8         mg/L         2.0	ASTM D6919-09	ASTM D6919-09         0.0329         mg/L         0.0050         1         09/11/18 19:21           SM 2120 B-2001(2011)         85.0         ColorUnits         5.0         5         08/29/18 13:30           353.2         0.102         mg/L         0.0020         1         09/13/18 13:38           351.2         0.35         mg/L         0.10         1         09/19/18 12:50           SM 2120 B-2001(2011)         7.02         pH Units         -         5         09/01/18 08:30           365.1         0.0208         mg/L         0.0050         1         09/14/18 12:54           300.0         2.8         mg/L         2.0         10         09/06/18 18:51	Analysis Method         Result         Units         MRL         Dil.         Date Analyzed         Extracted           ASTM D6919-09         0.0329         mg/L         0.0050         1         09/11/18 19:21         NA           SM 2120 B-2001(2011)         85.0         ColorUnits         5.0         5         08/29/18 13:30         NA           353.2         0.102         mg/L         0.0020         1         09/13/18 13:38         NA           351.2         0.35         mg/L         0.10         1         09/19/18 12:50         09/18/18           SM 2120 B-2001(2011)         7.02         pH Units         -         5         09/01/18 08:30         NA           365.1         0.0208         mg/L         0.0050         1         09/14/18 12:54         09/11/18           300.0         2.8         mg/L         2.0         10         09/06/18 18:51         NA

Analytical Report

**Client:** New York State DEC

Service Request: R1808263 **Date Collected:** 08/28/18 15:17 **Project:** LCI 2018/LCI2018

**Date Received:** 08/29/18 09:40 **Sample Matrix:** Water

**Sample Name:** 18LCB018 Diss Basis: NA

Lab Code: R1808263-010

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.8	mg/L	1.0	1	09/10/18 09:55	NA	
Phosphorus, Dissolved	365.1	0.0101	mg/L	0.0050	1	09/14/18 10:59	09/11/18	



# **QC Summary Forms**



# Metals

### **METALS**

-3-

#### **BLANKS**

Contract:	R1808263			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0827
Preparation	Blank Matrix (soil/water):	WATER	_	
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): UG/	L	

	Initial Calib. Blank		Conti	inu	ing Calibrati	on	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		M
Arsenic	0.39	U	0.39	Ū	0.39	U	0.39	Ū	0.39	U		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

Comments:

### **METALS**

-3-

**BLANKS** 

Contract:	R1808263					
Lab Code:	Ca:	ase No.:	SAS No.:		SDG NO.:	LCI0827
Preparation	Blank Matrix (soi	il/water):	WATER			
Preparation	Blank Concentrati	ion Units (ug/L, p	opt, or mg/kg):	UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrati	ion	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		M
Arsenic	İ		0.39	υ	0.39	U	0.39	Ū			1	MS
Iron			13.00	U	13.00	U	13.00	U				P
Manganese			1.70	ŭ	1.70	Ū	1.70	Ū				P

Comments:

### METALS

-5A-

### SPIKE SAMPLE RECOVERY

SAMPLE NO.

Contract:	R1808263				18LCB022S	
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0827
Matrix (so	il/water):	WATER		Level	(low/med):	LOW
% Solids fo	or Sample:	0.0				

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R Q	М
Iron	70 - 130	1270.00	316.00	1000.0	95	P
Manganese	70 - 130	525.00	22.70	500.0	100	P

Comments:		

### METALS

-5A-

#### SPIKE SAMPLE RECOVERY

SAMPLE NO.

Contract: R180	08263			18LCB022SD		
Lab Code:	Case No.:	SAS No.:		SDG NO.:	LCI0827	
Matrix (soil/wa	ter): WATER	_	Level (lo	ow/med):	LOW	
% Solids for San	mple: 0.0					

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R Q	М
Iron	70 - 130	1270.00	316.00	1000.0	95	P
Manganese	70 - 130	524.00	22.70	500.0	100	P

Comments:		
•		

#### METALS -6-DUPLICATES

SAMPLE NO	٠.
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Contract: R1808263			18LCB022	2SD	
Lab Code:	Case No.:	SAS No.:	SDG NO.	: LCI0827	
Matrix (soil/water):	WATER	Lev	rel (low/med):	LOW	
Solids for Sample:	0.0	% Solids fo	or Duplicate:	0.0	

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	м
Iron	l	1270.00	)	1270.	00	0		P
Manganese	l	525.00	)	524.	00	0		P

Comments:

#### **METALS**

-7-

### LABORATORY CONTROL SAMPLE

Contract:	R1808263				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	LCI0827
Solid LCS	Source:				
Aqueous LC	S Source:	ACCUSTANDARD			

	Aqueou	ıs (ug/L		Solid (mg/K					
Analyte	True	Found	%R	True	Found	С	Limits	%R	
Arsenic	20.0	21.4	107						
Iron	1000	969	97		]				
Manganese	500	499	100		]				

Comments:



# **General Chemistry**

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

#### Analytical Report

**Client:** New York State DEC Service Request: R1808263

Date Collected: NA **Project:** LCI 2018/LCI2018 Date Received: NA Water

**Sample Matrix:** 

Basis: NA **Sample Name:** Method Blank

Lab Code: R1808263-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	09/04/18 22:51	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/11/18 13:45	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/09/18 21:50	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/10/18 07:56	NA	
Chlorophyll A	SM20 10200 H	0.16 U	ug/L	0.16	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	08/29/18 13:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/19/18 12:42	09/18/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 10:49	09/11/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:23	09/11/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/06/18 15:53	NA	
UV254	SM 5910 B	0.00100	cm-1	-	1	08/29/18 16:21	NA	

Analytical Report

Client: New York State DEC Service Request: R1808263

Project: LCI 2018/LCI2018

Date Collected: NA

Pote Project: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1808263-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	09/05/18 00:57	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/10/18 19:02	NA	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 12:00	09/11/18	

QA/QC Report

**Client:** New York State DEC **Service Request:** R1808263 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/28/18 **Sample Matrix:** Water **Date Received:** 08/29/18 **Date Analyzed:** 09/19/18 **Date Extracted:** 09/18/18

**Duplicate Matrix Spike Summary** 

Nitrogen, Total Kjeldahl (TKN)

 Sample Name:
 18LCB021
 Units: mg/L

 Lab Code:
 R1808263-001
 Basis: NA

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

Matrix Spike Duplicate Matrix Spike

R1808263-001MS R1808263-001DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrogen, Total Kjeldahl (TKN)	0.45	2.76	2.50	92	2.74	2.50	92	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.

QA/QC Report

**Client:** New York State DEC **Service Request:** R1808263 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/28/18 **Sample Matrix:** Water **Date Received:** 08/29/18 **Date Analyzed:** 09/14/18 **Date Extracted:** 09/11/18

> Duplicate Matrix Spike Summary Phosphorus, Dissolved

 Sample Name:
 18LCB021 Diss
 Units:
 mg/L

 Lab Code:
 R1808263-002
 Basis:
 NA

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

Matrix Spike Duplicate Matrix Spike

R1808263-002MS R1808263-002DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Phosphorus, Dissolved	0.0050 U	0.0252	0.0250	101	0.0252	0.0250	101	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.

QA/QC Report

Client: New York State DEC **Service Request:** R1808263 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/28/18 **Sample Matrix:** Water **Date Received:** 08/29/18 Date Analyzed: 09/14/18 **Date Extracted:** 09/11/18

> Duplicate Matrix Spike Summary Phosphorus, Total

 Sample Name:
 18LCB007
 Units:
 mg/L

 Lab Code:
 R1808263-005
 Basis:
 NA

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

Matrix SpikeDuplicate Matrix SpikeR1808263-005MSR1808263-005DMS

**RPD** Sample Spike **Spike** % Rec Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Phosphorus, Total 0.0178 0.0406 0.0250 0.0468 0.0250 116 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.

#### ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

**Project** 

**Sample Matrix:** 

ew York State DEC

Service Request: R1808263

LCI 2018/LCI2018

Water

Date Collected: 08/28/18

Date Received: 08/29/18

**Date Analyzed:** 08/29/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LCB022 Units: cm-1

**Lab Code:** R1808263-003 **Basis:** NA

Duplicate Sample R1808263-

Sample 003DUP
Analyte Name Analysis Method MRL Result Result Average RPD RPD Limit

UV254 SM 5910 B - 0.186 0.188 0.187 1 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

**Project:** LCI 2018/LCI2018

**Sample Matrix:** Water

Service Request: R1808263

**Date Analyzed:** 09/04/18 - 09/19/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

### **Lab Control Sample**

R1808263-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.2	20.0	106	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.503	0.500	101	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.12	10.0	91	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.520	0.500	104	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.38	2.50	95	70-130
Phosphorus, Dissolved	365.1	0.0229	0.0250	92	70-130
Phosphorus, Total	365.1	0.0245	0.0250	98	70-130
Sulfate	300.0	1.98	2.00	99	70-130

QA/QC Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** Water

Service Request: R1808263

**Date Analyzed:** 09/05/18 - 09/14/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

#### **Lab Control Sample**

R1808263-LCS2

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.6	20.0	108	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.5	10.0	105	70-130
Phosphorus, Total	365.1	0.0245	0.0250	98	70-130