

Service Request No:R1808613

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 September 07, 2018 For your reference, these analyses have been assigned our service request number **R1808613**.

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 DECService Request: R1808613Project:LCI 2018Date Received: 09/07/2018

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 09/07/2018. 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.

General Chemistry:

No significant anomalies were noted with this analysis.

	Jaman Sax
Approved by	

D-1-	09/27/2018
Date	114/2//2018



SAMPLE DETECTION SUMMARY

CLIENT ID: 18SRB009	NT ID: 18SRB009 Lab ID: R1808613-001						
Analyte	Results	Flag	MDL	MRL	Units	Method	
Alkalinity, Total as CaCO3	10.4		1.0	2.0	mg/L	SM 2320 B-1997 (2011)	
Ammonia as Nitrogen, undistilled	0.0280		0.0008	0.0050	mg/L	ASTM D6919-09	
Carbon, Total Organic (TOC)	9.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)	
Chlorophyll A	35.7			1.6	ug/L	SM20 10200 H	
Color, True	56.0			1.0	ColorUnits	SM 2120 B-2001 (2011)	
Nitrate+Nitrite as Nitrogen	0.0128		0.0007	0.0020	mg/L	353.2	
Nitrogen, Total Kjeldahl (TKN)	1.11		0.08	0.10	mg/L	351.2	
pH of Color Analysis	7.12				pH Units	SM 2120 B-2001 (2011)	
Phosphorus, Total	0.0333		0.0020	0.0050	mg/L	365.1	
CLIENT ID: 18SRB009 Diss		Lal	D: R1808	8613-002			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Phosphorus, Dissolved	0.0102		0.0020	0.0050	mg/L	365.1	
CLIENT ID: 18SRB011		Lal	D: R1808	8613-003			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Alkalinity, Total as CaCO3	20.8		1.0	2.0	mg/L	SM 2320 B-1997 (2011)	
Ammonia as Nitrogen, undistilled	0.0073		0.0008	0.0050	mg/L	ASTM D6919-09	
Carbon, Total Organic (TOC)	6.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)	
Chlorophyll A	13.6			0.80	ug/L	SM20 10200 H	
Color, True	31.0			1.0	ColorUnits	SM 2120 B-2001 (2011)	
Nitrate+Nitrite as Nitrogen	0.0025		0.0007	0.0020	mg/L	353.2	
Nitrogen, Total Kjeldahl (TKN)	0.70		0.08	0.10	mg/L	351.2	
pH of Color Analysis	7.32				pH Units	SM 2120 B-2001 (2011)	
Phosphorus, Total	0.0190		0.0020	0.0050	mg/L	365.1	
CLIENT ID: 18SRB011 Diss		Lal	D: R1808	8613-004			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Phosphorus, Dissolved	0.0078		0.0020	0.0050	mg/L	365.1	
CLIENT ID: 18SRB023		Lal	D: R1808	8613-005			
Analyte	Results	Flag	MDL	MRL	Units	Method	
Alkalinity, Total as CaCO3	12.8		1.0	2.0	mg/L	SM 2320 B-1997 (2011)	
Ammonia as Nitrogen, undistilled	0.0209		0.0008	0.0050	mg/L	ASTM D6919-09	
Carbon, Total Organic (TOC)	11.2		0.05	1.0	mg/L	SM 5310 C-2000 (2011)	
Chlorophyll A	10.0			0.53	ug/L	SM20 10200 H	
Color, True	110	~f 20		5.0	ColorUnits	SM 2120 B-2001 (2011)	



SAMPLE DETECTION SUMMARY

CLIENT ID: 18SRB023		Lab ID: R1808613-005									
Analyte	Results	Flag	MDL	MRL	Units	Method					
Nitrate+Nitrite as Nitrogen	0.0100		0.0007	0.0020	mg/L	353.2					
Nitrogen, Total Kjeldahl (TKN)	0.81		0.08	0.10	mg/L	351.2					
pH of Color Analysis	6.81				pH Units SM 2120 B-20 (2011)						
Phosphorus, Total	0.0247		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18SRB023 Diss		Lal	D: R1808	8613-006							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Phosphorus, Dissolved	0.0068		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18SRB018		Lal	D: R1808	8613-007							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Alkalinity, Total as CaCO3	8.0		1.0	2.0	mg/L	SM 2320 B-1997 (2011)					
Ammonia as Nitrogen, undistilled	0.0078		0.0008	0.0050	mg/L	ASTM D6919-09					
Carbon, Total Organic (TOC)	10.6		0.05	1.0	mg/L	SM 5310 C-2000 (2011)					
Chlorophyll A	12.6			0.80	ug/L	SM20 10200 H					
Color, True	110			5.0	ColorUnits	SM 2120 B-2001 (2011)					
Nitrogen, Total Kjeldahl (TKN)	0.62		0.08	0.10	mg/L	351.2					
pH of Color Analysis	7.30				pH Units	SM 2120 B-2001 (2011)					
Phosphorus, Total	0.0120		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18SRB097		Lal	D: R1808	8613-009							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Alkalinity, Total as CaCO3	7.6		1.0	2.0	mg/L	SM 2320 B-1997 (2011)					
Ammonia as Nitrogen, undistilled	0.0076		0.0008	0.0050	mg/L	ASTM D6919-09					
Carbon, Total Organic (TOC)	10.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)					
Chlorophyll A	7.60			0.80	ug/L	SM20 10200 H					
Color, True	105			5.0	ColorUnits	SM 2120 B-2001 (2011)					
Nitrate+Nitrite as Nitrogen	0.0022		0.0007	0.0020	mg/L	353.2					
Nitrogen, Total Kjeldahl (TKN)	0.67		0.08	0.10	mg/L	351.2					
pH of Color Analysis	7.11				pH Units	SM 2120 B-2001 (2011)					
Dhaankamia Tatal	0.0404		0.0000	0.0050		005.4					

0.0020

0.0050

mg/L

365.1

0.0101

Phosphorus, Total



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:R1808613

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1808613-001	18SRB009	9/5/2018	1600
R1808613-002	18SRB009 Diss	9/5/2018	1600
R1808613-003	18SRB011	9/6/2018	0825
R1808613-004	18SRB011 Diss	9/6/2018	0825
R1808613-005	18SRB023	9/6/2018	0952
R1808613-006	18SRB023 Diss	9/6/2018	0952
R1808613-007	18SRB018	9/6/2018	1110
R1808613-008	18SRB018 Diss	9/6/2018	1110
R1808613-009	18SRB097	9/6/2018	1110
R1808613-010	18SRB097 Diss	9/6/2018	1110

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Project Manager Alene Onion X Report to Project Manager Bill to Jason Fagel Address: 625 Broadway, 4th Floor Albany, NY 12233-3502 Andress: 625 Broadway, 4th Floor Albany, NY 12233-3502 Albany, NY 12233-3502 Phone: 518-402-4156 Phone: 518-402-4156 Phone: 518-402-4156 Phone: 518-402-4156 Email: Email: Email: Sanningel@dec.nygov Matrix Codes:		Sampler Collector:												7	Sam	npler Phon	e No.: 5ーとし	- 95	<u>ス</u>				
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Phone: (318) 402-8166 Phone: (318) 402-8166 Phone: (318) 402-8166 Email: alene.onion@dec.ny.gov Email: Disconfage@dec.my.gov Email: Disconfage@dec.my.gov Email: Disconfage@dec.my.gov Disconfage@dec.my					•				1	Addre	ss:		•						Addı		, ,		
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185 RB O O O O O O O O O	GW = Groundwater AW = Ambient Water SE = Sediment SL = Sludge T = Tissue O = Other NYSDEC		collection Time		of o	, NH4, NOx, TKN		ssolved TOP4	, Mn, As,		Mn, As, Ca, Mg, Na,	olor			kalinity	04 & UV-254	CI	04, Cl, UV-254		Chlorophyll a Vol (ml)	2 = HNO ₃ 3 = H ₂ SO ₄ 4 = NaOH 5 = Zn. Acet 6 = MeOH 7 = NaHSO ₄ 8 = Other	4	
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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: R1808613

Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

MethodMatrixAnalyteSM20 10200 HWaterChlorophyll A

Analyst Summary report

Client: New York State DEC Service Request: R1808613

Project: LCI 2018/LCI2018

 Sample Name:
 18SRB009
 Date Collected:
 09/5/18

 Lab Code:
 R1808613-001
 Date Received:
 09/7/18

Sample Matrix: Water

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

 Sample Name:
 18SRB009 Diss
 Date Collected: 09/5/18

 Lab Code:
 R1808613-002
 Date Received: 09/7/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18SRB011
 Date Collected:
 09/6/18

 Lab Code:
 R1808613-003
 Date Received:
 09/7/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1808613

Project: LCI 2018/LCI2018

 Sample Name:
 18SRB011 Diss
 Date Collected:
 09/6/18

 Lab Code:
 R1808613-004
 Date Received:
 09/7/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18SRB023 Date Collected: 09/6/18

Lab Code: R1808613-005 **Date Received:** 09/7/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 MROGERSON MROGERSON

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011) SCYMBAL

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

SM20 10200 H JQUACKENBUSH

Sample Name: 18SRB023 Diss Date Collected: 09/6/18

Lab Code: R1808613-006 **Date Received:** 09/7/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18SRB018 Date Collected: 09/6/18

Lab Code: R1808613-007 **Date Received:** 09/7/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 MROGERSON MROGERSON

Printed 9/27/2018 7:06:38 AM Superset Reference:18-0000479928 rev 00

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1808613

Sample Name: 18SRB018 Date Collected: 09/6/18

Lab Code: R1808613-007 **Date Received:** 09/7/18

Sample Matrix: Water

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

 Sample Name:
 18SRB018 Diss
 Date Collected: 09/6/18

 Lab Code:
 R1808613-008
 Date Received: 09/7/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18SRB097
 Date Collected:
 09/6/18

 Lab Code:
 R1808613-009
 Date Received:
 09/7/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1808613

Sample Name: 18SRB097 Diss Lab Code: R1808613-010

Sample Matrix: Water

Date Collected: 09/6/18

Date Received: 09/7/18

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI



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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General Chemistry

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Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18SRB009 Basis: NA

Lab Code: R1808613-001

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	10.4	mg/L	2.0	1	09/11/18 00:34	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0280	mg/L	0.0050	1	09/14/18 00:50	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.4	mg/L	1.0	1	09/12/18 14:52	NA	
Chlorophyll A	SM20 10200 H	35.7	ug/L	1.6	10	09/19/18 18:10	NA	
Color, True	SM 2120 B-2001(2011)	56.0	ColorUnits	1.0	1	09/07/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0128	mg/L	0.0020	1	09/13/18 17:25	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.11	mg/L	0.10	1	09/20/18 12:02	09/19/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.12	pH Units	-	1	09/08/18 08:30	NA	*
Phosphorus, Total	365.1	0.0333	mg/L	0.0050	1	09/21/18 15:29	09/19/18	

Service Request: R1808613 **Date Collected:** 09/05/18 16:00

Date Received: 09/07/18 09:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: V

Water

Service Request: R1808613

Date Collected: 09/05/18 16:00

Date Received: 09/07/18 09:00

Sample Name: 18SRB009 Diss Basis: NA

Lab Code: R1808613-002

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0102	mg/L	0.0050	1	09/17/18 10:14	09/14/18	

Analytical Report

Client: New York State DEC

Project:

Water

LCI 2018/LCI2018

18SRB011 Basis: NA

Lab Code: R1808613-003

Sample Matrix:

Sample Name:

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	mg/L	2.0	1	09/11/18 00:38	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0073	mg/L	0.0050	1	09/14/18 01:06	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.9	mg/L	1.0	1	09/13/18 15:24	NA	
Chlorophyll A	SM20 10200 H	13.6	ug/L	0.80	10	09/19/18 18:10	NA	
Color, True	SM 2120 B-2001(2011)	31.0	ColorUnits	1.0	1	09/07/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0025	mg/L	0.0020	1	09/13/18 17:27	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.70	mg/L	0.10	1	09/20/18 12:44	09/19/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.32	pH Units	-	1	09/08/18 08:30	NA	*
Phosphorus, Total	365.1	0.0190	mg/L	0.0050	1	09/21/18 15:30	09/19/18	

Service Request: R1808613 **Date Collected:** 09/06/18 08:25

Date Received: 09/07/18 09:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: W

Water

Service Request: R1808613

Date Collected: 09/06/18 08:25

Date Received: 09/07/18 09:00

Sample Name: 18SRB011 Diss Basis: NA

Lab Code: R1808613-004

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0078	mg/L	0.0050	1	09/17/18 10:15	09/14/18	

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

Date Received: 09/07/18 09:00

Service Request: R1808613 **Date Collected:** 09/06/18 09:52

18SRB023 Basis: NA

Lab Code: R1808613-005

						Date	
Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
SM 2320 B-1997(2011)	12.8	mg/L	2.0	1	09/11/18 00:42	NA	
ASTM D6919-09	0.0209	mg/L	0.0050	1	09/14/18 01:22	NA	
SM 5310 C-2000(2011)	11.2	mg/L	1.0	1	09/13/18 19:22	NA	
SM20 10200 H	10.0	ug/L	0.53	10	09/19/18 18:10	NA	
SM 2120 B-2001(2011)	110	ColorUnits	5.0	5	09/07/18 11:30	NA	
353.2	0.0100	mg/L	0.0020	1	09/13/18 17:28	NA	
351.2	0.81	mg/L	0.10	1	09/20/18 12:04	09/19/18	
SM 2120 B-2001(2011)	6.81	pH Units	-	5	09/08/18 08:30	NA	
365.1	0.0247	mg/L	0.0050	1	09/21/18 15:31	09/19/18	
	SM 2320 B-1997(2011) ASTM D6919-09 SM 5310 C-2000(2011) SM20 10200 H SM 2120 B-2001(2011) 353.2 351.2 SM 2120 B-2001(2011)	SM 2320 B-1997(2011) 12.8 ASTM D6919-09 0.0209 SM 5310 C-2000(2011) 11.2 SM20 10200 H 10.0 SM 2120 B-2001(2011) 110 353.2 0.0100 351.2 0.81 SM 2120 B-2001(2011) 6.81	SM 2320 B-1997(2011) 12.8 mg/L ASTM D6919-09 0.0209 mg/L SM 5310 C-2000(2011) 11.2 mg/L SM20 10200 H 10.0 ug/L SM 2120 B-2001(2011) 110 ColorUnits 353.2 0.0100 mg/L 351.2 0.81 mg/L SM 2120 B-2001(2011) 6.81 pH Units	SM 2320 B-1997(2011) 12.8 mg/L 2.0 ASTM D6919-09 0.0209 mg/L 0.0050 SM 5310 C-2000(2011) 11.2 mg/L 1.0 SM20 10200 H 10.0 ug/L 0.53 SM 2120 B-2001(2011) 110 ColorUnits 5.0 353.2 0.0100 mg/L 0.0020 351.2 0.81 mg/L 0.10 SM 2120 B-2001(2011) 6.81 pH Units -	SM 2320 B-1997(2011) 12.8 mg/L 2.0 1 ASTM D6919-09 0.0209 mg/L 0.0050 1 SM 5310 C-2000(2011) 11.2 mg/L 1.0 1 SM 20 10200 H 10.0 ug/L 0.53 10 SM 2120 B-2001(2011) 110 ColorUnits 5.0 5 353.2 0.0100 mg/L 0.0020 1 351.2 0.81 mg/L 0.10 1 SM 2120 B-2001(2011) 6.81 pH Units - 5	SM 2320 B-1997(2011) 12.8 mg/L 2.0 1 09/11/18 00:42 ASTM D6919-09 0.0209 mg/L 0.0050 1 09/14/18 01:22 SM 5310 C-2000(2011) 11.2 mg/L 1.0 1 09/13/18 19:22 SM20 10200 H 10.0 ug/L 0.53 10 09/19/18 18:10 SM 2120 B-2001(2011) 110 ColorUnits 5.0 5 09/07/18 11:30 353.2 0.0100 mg/L 0.0020 1 09/13/18 17:28 351.2 0.81 mg/L 0.10 1 09/20/18 12:04 SM 2120 B-2001(2011) 6.81 pH Units - 5 09/08/18 08:30	Analysis Method Result Units MRL Dil. Date Analyzed Extracted SM 2320 B-1997(2011) 12.8 mg/L 2.0 1 09/11/18 00:42 NA ASTM D6919-09 0.0209 mg/L 0.0050 1 09/14/18 01:22 NA SM 5310 C-2000(2011) 11.2 mg/L 1.0 1 09/13/18 19:22 NA SM20 10200 H 10.0 ug/L 0.53 10 09/19/18 18:10 NA SM 2120 B-2001(2011) 110 ColorUnits 5.0 5 09/07/18 11:30 NA 353.2 0.0100 mg/L 0.0020 1 09/13/18 17:28 NA 351.2 0.81 mg/L 0.10 1 09/20/18 12:04 09/19/18 SM 2120 B-2001(2011) 6.81 pH Units - 5 09/08/18 08:30 NA

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808613

Date Collected: 09/06/18 09:52

Date Received: 09/07/18 09:00

Sample Name: 18SRB023 Diss

Lab Code: R1808613-006

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0068	mg/L	0.0050	1	09/17/18 10:16	09/14/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

Service Request: R1808613 **Date Collected:** 09/06/18 11:10

Date Received: 09/07/18 09:00

Sample Name: 18SRB018 Basis: NA

Lab Code: R1808613-007

Sample Matrix:

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	8.0	mg/L	2.0	1	09/11/18 00:46	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0078	mg/L	0.0050	1	09/14/18 01:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.6	mg/L	1.0	1	09/13/18 19:43	NA	
Chlorophyll A	SM20 10200 H	12.6	ug/L	0.80	10	09/19/18 18:10	NA	
Color, True	SM 2120 B-2001(2011)	110	ColorUnits	5.0	5	09/07/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 17:29	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.62	mg/L	0.10	1	09/20/18 12:05	09/19/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.30	pH Units	-	5	09/08/18 08:30	NA	
Phosphorus, Total	365.1	0.0120	mg/L	0.0050	1	09/21/18 15:32	09/19/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: W

Water

Service Request: R1808613

Date Collected: 09/06/18 11:10

Date Received: 09/07/18 09:00

Sample Name: 18SRB018 Diss

Lab Code: R1808613-008

Basis: NA

Analysis
1 111111 510

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/17/18 10:23	09/14/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18SRB097 Basis: NA

Lab Code: R1808613-009

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	09/11/18 01:08	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0076	mg/L	0.0050	1	09/14/18 01:54	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.9	mg/L	1.0	1	09/13/18 20:45	NA	
Chlorophyll A	SM20 10200 H	7.60	ug/L	0.80	10	09/19/18 18:10	NA	
Color, True	SM 2120 B-2001(2011)	105	ColorUnits	5.0	5	09/07/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0022	mg/L	0.0020	1	09/13/18 17:31	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.67	mg/L	0.10	1	09/20/18 12:07	09/19/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.11	pH Units	-	5	09/08/18 08:30	NA	
Phosphorus, Total	365.1	0.0101	mg/L	0.0050	1	09/21/18 15:39	09/19/18	

Service Request: R1808613 **Date Collected:** 09/06/18 11:10

Date Received: 09/07/18 09:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808613

Date Collected: 09/06/18 11:10

Basis: NA

Date Received: 09/07/18 09:00

Sample Name: 18SRB097 Diss

Lab Code: R1808613-010

Inorganic Parameters

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/17/18 10:26	09/14/18	



QC Summary Forms

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General Chemistry

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Analytical Report

Client: New York State DEC Service Request: R1808613

Project:LCI 2018/LCI2018Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name: Method Blank Basis: NA

Lab Code: R1808613-MB1

							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	09/10/18 22:53	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/14/18 00:18	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/12/18 11:15	NA	
Chlorophyll A	SM20 10200 H	4.0 U	ug/L	4.0	1	09/19/18 18:10	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	09/07/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 17:05	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/20/18 11:55	09/19/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/17/18 09:43	09/14/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/21/18 14:59	09/19/18	

Analytical Report

Client: New York State DEC Service Request: R1808613

Project:LCI 2018/LCI2018Date Collected:NASample Matrix:WaterDate Received:NA

Sample Name: Method Blank Basis: NA

Lab Code: R1808613-MB2

							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	09/11/18 00:54	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/13/18 13:39	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/17/18 10:17	09/14/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/21/18 15:34	09/19/18	

QA/QC Report

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

Water

LCI 2018/LCI2018

Service Request:

R1808613

Date Collected: Date Received:

09/06/18 09/07/18

Date Analyzed:

09/13/18

Duplicate Matrix Spike Summary

Carbon, Total Organic (TOC)

Sample Name: 18SRB018 **Units:**

mg/L

Lab Code:

R1808613-007

Basis:

NA

Analysis Method:

Sample Matrix:

SM 5310 C-2000(2011)

Matrix Spike

Duplicate Matrix Spike

R1808613-007MS

R1808613-007DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic (TOC)	10.6	21.8	10.0	111	21.2	10.0	106	75-125	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.

QA/QC Report

Client: New York State DEC **Service Request:** R1808613 **Project:** LCI 2018/LCI2018 **Date Collected:** 09/06/18 **Sample Matrix:** Water **Date Received:** 09/07/18 Date Analyzed: 09/17/18 **Date Extracted:**

> **Duplicate Matrix Spike Summary** Phosphorus, Dissolved

Sample Name: 18SRB018 Diss **Units:** mg/L Lab Code: R1808613-008 **Basis:** NA

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

> **Matrix Spike Duplicate Matrix Spike** R1808613-008MS R1808613-008DMS

RPD Sample Spike Spike % Rec Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Phosphorus, Dissolved 0.0050 U 0.0273 0.0250 0.0268 0.0250 107 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.

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

09/14/18

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Service Request: R1808613

Project LCI 2018/LCI2018

Date Collected: 09/06/18 **Date Received:** 09/07/18

Sample Matrix: Water

Date Analyzed: 09/11/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18SRB097

Units: mg/L

Lab Code: R1808613-009

Basis: NA

Duplicate

Sample R1808613-

1808613 009DUP

Analyte Name Analysis Method

Sample Result

Result Average RPD

RPD Limit

Alkalinity, Total as CaCO3

SM 2320 B-1997(2011)

MRL 2.0

7.6

8

8.0

7.80

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.

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808613

Date Analyzed: 09/10/18 - 09/21/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1808613-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	0.512	0.500	102	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.90	10.0	99	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.530	0.500	106	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.26	2.50	90	70-130
Phosphorus, Dissolved	365.1	0.0241	0.0250	97	70-130
Phosphorus, Total	365.1	0.0239	0.0250	96	70-130

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808613

Date Analyzed: 09/11/18 - 09/21/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1808613-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	17.2	20.0	86	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Phosphorus, Dissolved	365.1	0.0241	0.0250	96	70-130
Phosphorus, Total	365.1	0.0247	0.0250	99	70-130