



October 02, 2018

Service Request No:R1808929

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 18, 2018
For your reference, these analyses have been assigned our service request number **R1808929**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Jason Fagel

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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
Project: LCI 2018
Sample Matrix: Water

Service Request: R1808929
Date Received: 09/18/2018

CASE NARRATIVE

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

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 09/18/2018. 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.



Approved by _____

Date 10/02/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: 18SRB021	Lab ID: R1808929-001
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	15.2		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	8.3		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	54.4			2.7	ug/L	SM20 10200 H
Color, True	57.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	1.48		0.08	0.10	mg/L	351.2
pH of Color Analysis	7.64				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0880		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18SRB021 Diss	Lab ID: R1808929-002
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Phosphorus, Dissolved	0.0113		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18SRB019	Lab ID: R1808929-003
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	30.4		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	6.7		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	10.3			0.32	ug/L	SM20 10200 H
Color, True	32.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.80		0.08	0.10	mg/L	351.2
pH of Color Analysis	7.49				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0213		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18SRB019 Diss	Lab ID: R1808929-004
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Phosphorus, Dissolved	0.0074		0.0020	0.0050	mg/L	365.1



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

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

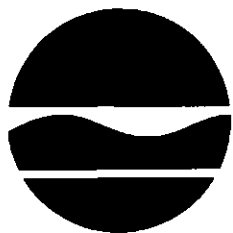
Service Request:R1808929

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1808929-001	18SRB021	9/17/2018	1215
R1808929-002	18SRB021 Diss	9/17/2018	1215
R1808929-003	18SRB019	9/17/2018	1100
R1808929-004	18SRB019 Diss	9/17/2018	1100

CHAIN OF CUSTODY

Page 1 of 1



New York State Department of
Environmental Conservation –
Division of Water

Project Name: LCI

Project Number: LCI2018

NYSDEC SDG:

Sampler Collector:

Alene Onion

Sampler Signature:

Alene Onion

Sampler Phone No.:

518 402 8166

Project Manager: Alene Onion

X Report to Project Manager

☐ **Bill to Project Manager**

Report to:

Bill to: Jason Fagel

Address: 625 Broadway, 4th Floor
Albany, NY 12233-3502

Address:

Address: 625 Broadway, 4th Floor
Albany, NY 12233-3502

Phone: (518) 402-8166

Phone:

Phone: 518-402-8156

Email: alene.onion@dec.ny.gov

Email:

Email: Jason.fagel@dec.ny.gov

Matrix Codes:

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

Analyses Ordered (list)

Preservative Codes:

0 = Cool to < 6°C
1 = HCL
2 = HNO₃
3 = H₂SO₄
4 = NaOH
5 = Zn. Acetate
6 = MeOH
7 = NaHSO₄
8 = Other _____

**NYSDEC
LCI Sample ID**

Collection Date

Collection Time

Matrix Code

No. of Containers

3

ANC

TP, NH₄, NO_x, TKN

TP, NH₄, NO_x, TKN, NO₃

Dissolved TOP4

Fe, Mn, As,

2

ANC

Ca, Mg, Na, K

Fe, Mn, As, Ca, Mg, Na, K

0

ANC

Color

TOC

3

ANC

DOC

0

ANC

Alkalinity

0

ANC

SO₄ & UV-254

0

ANC

SO₄, Cl, UV-254

Chlorophyll a |
Vol (ml)

Location Info

18 SRB 021

9/17/18

12:15

AW

6

X

X

X

X

X

X

X

X

X

X

X

X

X

X

150

Source Pond

18 SRB 019

9/17/18

11:00

AW

6

X

X

X

X

X

X

X

X

X

X

X

X

X

250

Shackham Pond

Special Analysis Instructions:

Relinquished by Sampler:

Alene Onion

Date:

9/17/18

Time:

3pm

Received by:

Alene Onion

Date:

9/18/18

Time:

0930

Laboratory Receipt Notes:

Relinquished by:

Date:

Time:

Received by:

Alene Onion

Date:

9/18/18

Time:

0930

Sample Temp.:

Properly Preserved:

Samples Intact:

R1808929

New York State DEC
LCI 2018

5





Cooler Receipt and Preservation Check Form

R1808929

5

New York State DEC
LCI 2018Project/Client LCT Folder Number _____Cooler received on 9/18/18 by: e COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials <u>Alk</u> or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 9/18/18 Time: 1002 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.4</u>						
Correction Factor (°C)	<u>-10.4</u>						
Corrected Temp (°C)	<u>3.8</u>						
Temp from: Type of bottle	<u>cert tube</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: R-002 by e on 9/18/18 at 1010
5035 samples placed in storage location: _____ by _____ on _____ at _____Cooler Breakdown/Preservation Check**: Date: 9/18/18 Time: 1448 by: SW

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

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>209318</u>	H ₂ SO ₄	<u>✓</u>		<u>192169</u>	<u>8/19</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3 day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 8-072-001, 81217-01, 07028-2AAC

Explain all Discrepancies/ Other Comments:

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

Labels secondary reviewed by: SWPC Secondary Review: SW 9/20/18 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	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	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

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

ALS Laboratory Group

Acronyms

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

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

Service Request: R1808929

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM20 10200 H	Water	Chlorophyll A

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1808929

Sample Name: 18SRB021
Lab Code: R1808929-001
Sample Matrix: Water

Date Collected: 09/17/18
Date Received: 09/18/18

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

Sample Name: 18SRB021 Diss
Lab Code: R1808929-002
Sample Matrix: Water

Date Collected: 09/17/18
Date Received: 09/18/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	GNITAJOUPPI

Sample Name: 18SRB019
Lab Code: R1808929-003
Sample Matrix: Water

Date Collected: 09/17/18
Date Received: 09/18/18

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

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

Service Request: R1808929

Sample Name: 18SRB019 Diss
Lab Code: R1808929-004
Sample Matrix: Water

Date Collected: 09/17/18
Date Received: 09/18/18

Analysis Method
365.1

Extracted/Digested By
KWONG

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

Solid/Soil/Non-Aqueous Matrix

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

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



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18SRB021
Lab Code: R1808929-001

Service Request: R1808929
Date Collected: 09/17/18 12:15
Date Received: 09/18/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	15.2	mg/L	2.0	1	09/25/18 04:17	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/21/18 18:39	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.3	mg/L	1.0	1	09/19/18 13:52	NA	
Chlorophyll A	SM20 10200 H	54.4	ug/L	2.7	10	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	57.0	ColorUnits	1.0	1	09/18/18 22:16	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.48	mg/L	0.10	1	09/27/18 11:54	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.64	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0880	mg/L	0.0050	1	09/28/18 18:24	09/27/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18SRB021 Diss
Lab Code: R1808929-002

Service Request: R1808929
Date Collected: 09/17/18 12:15
Date Received: 09/18/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0113	mg/L	0.0050	1	09/28/18 16:30	09/27/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water
Sample Name: 18SRB019
Lab Code: R1808929-003

Service Request: R1808929
Date Collected: 09/17/18 11:00
Date Received: 09/18/18 09:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	30.4	mg/L	2.0	1	09/25/18 04:22	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/21/18 18:55	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.7	mg/L	1.0	1	09/19/18 14:13	NA	
Chlorophyll A	SM20 10200 H	10.3	ug/L	0.32	2	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	32.0	ColorUnits	1.0	1	09/18/18 22:16	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:19	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.80	mg/L	0.10	1	09/27/18 11:55	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.49	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0213	mg/L	0.0050	1	09/28/18 18:28	09/27/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18SRB019 Diss
Lab Code: R1808929-004

Service Request: R1808929
Date Collected: 09/17/18 11:00
Date Received: 09/18/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0074	mg/L	0.0050	1	09/28/18 16:31	09/27/18	



QC Summary 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



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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1808929-MB

Service Request: R1808929
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/25/18 02:01	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/21/18 17:32	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/19/18 13:11	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/27/18 11:45	09/26/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:27	09/27/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:15	09/27/18	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1808929
Date Collected: 09/17/18
Date Received: 09/18/18
Date Analyzed: 09/27/18

Duplicate Matrix Spike Summary
Nitrate+Nitrite as Nitrogen

Sample Name: 18SRB021
Lab Code: R1808929-001
Analysis Method: 353.2

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1808929-001MS			Duplicate Matrix Spike R1808929-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrate+Nitrite as Nitrogen	0.0020 U	0.489	0.500	98	0.491	0.500	98	75-125	<1	20

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1808929
Date Collected: 09/17/18
Date Received: 09/18/18
Date Analyzed: 09/27/18
Date Extracted: 09/26/18

Duplicate Matrix Spike Summary
Nitrogen, Total Kjeldahl (TKN)

Sample Name: 18SRB019
Lab Code: R1808929-003
Analysis Method: 351.2
Prep Method: Method

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1808929-003MS			Duplicate Matrix Spike R1808929-003DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrogen, Total Kjeldahl (TKN)	0.80	3.23	2.50	97	3.28	2.50	99	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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1808929
Date Collected: 09/17/18
Date Received: 09/18/18
Date Analyzed: 09/28/18
Date Extracted: 09/27/18

Duplicate Matrix Spike Summary
Phosphorus, Dissolved

Sample Name: 18SRB019 Diss
Lab Code: R1808929-004
Analysis Method: 365.1
Prep Method: Method

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1808929-004MS			Duplicate Matrix Spike R1808929-004DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Phosphorus, Dissolved	0.0074	0.0299	0.0250	90	0.0296	0.0250	89	75-125	1	20

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1808929
Date Analyzed: 09/19/18 - 09/28/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1808929-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	21.2	20.0	106	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.488	0.500	98	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.8	10.0	108	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.516	0.500	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.26	2.50	90	70-130
Phosphorus, Dissolved	365.1	0.0242	0.0250	97	70-130
Phosphorus, Total	365.1	0.0231	0.0250	92	70-130