



June 24, 2021

Service Request No:R2105522

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

**Laboratory Results for: LCI**

Dear Ms.Onion,

Enclosed are the results of the sample(s) submitted to our laboratory June 03, 2021  
For your reference, these analyses have been assigned our service request number **R2105522**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, 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), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

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

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

CC: RIBS Reporting

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](http://www.alsglobal.com)



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

**Service Request:** R2105522  
**Date Received:** 06/03/2021

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

#### **Sample Receipt:**

Twelve water samples were received for analysis at ALS Environmental on 06/03/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

#### **Metals:**

No significant anomalies were noted with this analysis.

#### **General Chemistry:**

Method 353.2, One or more samples were received past the recommended holding time. The customer was notified when the discrepancy was found and instructed the laboratory to proceed with processing. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time exceedance.

A handwritten signature in black ink, appearing to read "Samanta", written over a horizontal line.

Approved by \_\_\_\_\_

Date 06/24/2021

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: 21L0139</b>	<b>Lab ID: R2105522-001</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	31.0			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.128			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	4.2			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	57.2			2.0	mg/L	300.0
Chlorophyll A	6.97			0.32	ug/L	SM20 10200 H
Color, True	30.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO <sub>3</sub>	45.2			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.861			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	0.885			0.0020	mg/L	353.2
Nitrite as Nitrogen	0.023			0.010	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.69			0.10	mg/L	351.2
pH of Color Analysis	7.35				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0448			0.0050	mg/L	365.1
Sulfate	11.0			2.0	mg/L	300.0

<b>CLIENT ID: 21L0139 Diss</b>	<b>Lab ID: R2105522-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	4.2			1.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0165			0.0050	mg/L	365.1

<b>CLIENT ID: 21L0140</b>	<b>Lab ID: R2105522-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	21.0			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.073			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	3.4			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	66.5			2.0	mg/L	300.0
Chlorophyll A	3.24			0.080	ug/L	SM20 10200 H
Color, True	27.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO <sub>3</sub>	34.3			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.812			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	0.823			0.0020	mg/L	353.2
Nitrite as Nitrogen	0.011			0.010	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.51			0.10	mg/L	351.2
pH of Color Analysis	7.12				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0251			0.0050	mg/L	365.1
Sulfate	10.2			2.0	mg/L	300.0

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: 21L0140 Diss</b>	<b>Lab ID: R2105522-004</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	3.5			1.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0094			0.0050	mg/L	365.1

<b>CLIENT ID: 21L0081</b>	<b>Lab ID: R2105522-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	30.5			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.621			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	4.7			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	57.0			2.0	mg/L	300.0
Chlorophyll A	0.54			0.16	ug/L	SM20 10200 H
Color, True	40.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO <sub>3</sub>	57.5			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	3.49			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	3.51			0.010	mg/L	353.2
Nitrite as Nitrogen	0.025			0.010	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	1.04			0.10	mg/L	351.2
pH of Color Analysis	7.92				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0193			0.0050	mg/L	365.1
Sulfate	17.2			2.0	mg/L	300.0

<b>CLIENT ID: 21L0081 Diss</b>	<b>Lab ID: R2105522-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	4.8			1.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0083			0.0050	mg/L	365.1

<b>CLIENT ID: 21L0141</b>	<b>Lab ID: R2105522-007</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	54.9			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.166			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	4.9			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	176			4.0	mg/L	300.0
Chlorophyll A	29.3			2.7	ug/L	SM20 10200 H
Color, True	10.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO <sub>3</sub>	105			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.666			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	0.723			0.0020	mg/L	353.2
Nitrite as Nitrogen	0.057			0.010	mg/L	353.2

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: 21L0141</b>	<b>Lab ID: R2105522-007</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Nitrogen, Total Kjeldahl (TKN)	2.01			0.10	mg/L	351.2
pH of Color Analysis	8.62				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0918			0.0050	mg/L	365.1
Sulfate	36.3			2.0	mg/L	300.0

<b>CLIENT ID: 21L0141 Diss</b>	<b>Lab ID: R2105522-008</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	4.2			1.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0064			0.0050	mg/L	365.1

<b>CLIENT ID: 21L0142</b>	<b>Lab ID: R2105522-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	56.2			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.174			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	4.7			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	179			4.0	mg/L	300.0
Chlorophyll A	34.1			3.2	ug/L	SM20 10200 H
Color, True	35.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO <sub>3</sub>	104			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.654			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	0.706			0.0020	mg/L	353.2
Nitrite as Nitrogen	0.053			0.010	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	1.62			0.10	mg/L	351.2
pH of Color Analysis	8.72				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0696			0.0050	mg/L	365.1
Sulfate	36.7			2.0	mg/L	300.0

<b>CLIENT ID: 21L0142 Diss</b>	<b>Lab ID: R2105522-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	3.8			2.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0077			0.0050	mg/L	365.1

<b>CLIENT ID: 21L0143</b>	<b>Lab ID: R2105522-011</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	56.2			2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen	0.217			0.010	mg/L	350.1
Carbon, Total Organic (TOC)	4.6			1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	179			4.0	mg/L	300.0

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: 21L0143</b>			<b>Lab ID: R2105522-011</b>			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Chlorophyll A	23.2			3.2	ug/L	SM20 10200 H
Color, True	11.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Hardness, Total as CaCO3	103			6.62	mg/L	SM 2340 B-1997 (2011)
Nitrate as Nitrogen	0.646			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	0.704			0.0020	mg/L	353.2
Nitrite as Nitrogen	0.057			0.010	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	1.55			0.10	mg/L	351.2
pH of Color Analysis	8.62				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0694			0.0050	mg/L	365.1
Sulfate	36.3			2.0	mg/L	300.0

<b>CLIENT ID: 21L0143 Diss</b>			<b>Lab ID: R2105522-012</b>			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Dissolved Organic (DOC)	4.2			1.0	mg/L	SM 5310 C-2000 (2011)
Phosphorus, Dissolved	0.0064			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](http://www.alsglobal.com)



**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:**R2105522

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2105522-001	21L0139	6/1/2021	1330
R2105522-002	21L0139 Diss	6/1/2021	1330
R2105522-003	21L0140	6/1/2021	1045
R2105522-004	21L0140 Diss	6/1/2021	1045
R2105522-005	21L0081	6/2/2021	1200
R2105522-006	21L0081 Diss	6/2/2021	1200
R2105522-007	21L0141	6/2/2021	0815
R2105522-008	21L0141 Diss	6/2/2021	0815
R2105522-009	21L0142	6/2/2021	0830
R2105522-010	21L0142 Diss	6/2/2021	0830
R2105522-011	21L0143	6/2/2021	0845
R2105522-012	21L0143 Diss	6/2/2021	0845

# CHAIN OF CUSTODY – ALS Rochester

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Department of  
Environmental  
Conservation

## Division of Water

(This COC for use with ALS  
Rochester only)

Project Name: LCI

Sampler Collector: *Alene Oni*

Project Manager: Alene Oni

Address: 625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3502

Phone: (518) 402-8166

Email: alene.onion@dec.ny.gov

Project Number: LCI21

Sampler Signature: *Alene Oni*

X Report to Project Manager

Report to:

Address:

Phone:

Email:

NYSDEC SDG:

Sampler Phone No.:

Bill to Project Manager:

Jason Fagel

Address: 625 Broadway, 4<sup>th</sup> Fl  
Albany, NY 12233-3502

Phone: 518-402-8156

Email: jason.fagel@dec.ny.gov

### Matrix Codes:

WW = Wastewater  
GW = Groundwater  
W = Ambient Water  
SE = Sediment  
SL = Sludge  
T = Tissue  
O = Other DI WATER

Collection  
Date  
(MM/DD/YY)

Collection  
Time  
(HH:MM)

Matrix Code

MS/MSD

# Containers

### Analyses Ordered (list)

### Preservative Codes:

(Please include in ( ) on "Analyses Ordered" line):

1 = Cool to < 6°C  
2 = 0.008% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
3 = H<sub>2</sub>SO<sub>4</sub> to pH < 2  
4 = HNO<sub>3</sub> to pH < 2  
5 = NaOH to pH > 12  
6 = 5 mL/L 12N HCl  
7 = 5 mL/L BrCl  
8 = HCl to pH < 2  
9 = H<sub>3</sub>PO<sub>4</sub> to pH < 2  
10 = Protect from light  
11 = Freeze to < -10°C  
12 = Other

### Sample Key

Chl A Volume  
(ml)

NYSDEC Sample ID

21L0139	06/1/2021	1330	W							X		500	1702NEW0292_DH_N_OW_B
21L0140	06/1/2021	1045	W							X		500	1702UWB0159_DH_N_OW_B

### Special Analysis Instructions:

Relinquished by Sampler: <i>Alene Oni</i>	Date: 6/2/21	Time: 1836	Received by: <i>Daniel Hager ALS</i>	Date: 6/2/21	Time: 1836	Laboratory Receipt Notes:
Relinquished by: <i>Daniel Hager ALS</i>	Date: 6/3/21	Time: 1633	Received by: <i>ahm</i>	Date: 6/3/21	Time: 1633	Sample Temp.: _____ °C Properly Preserved: Y / N Samples Intact: Y / N

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New York State DEC  
LCI



# CHAIN OF CUSTODY – ALS Rochester

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Department of  
Environmental  
Conservation

## Division of Water

(This COC for use with ALS  
Rochester only)

Project Name: LCI

Project Number: LCI21

NYSDEC SDG:

Sampler Collector: *Alene Onion*

Sampler Signature: *Alene Onion*

Sampler Phone No.:

Project Manager: Alene Onion

X Report to Project Manager

Bill to Project Manager:

Address: 625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3502

Report to:

Jason Fagel

Address:

Address: 625 Broadway, 4<sup>th</sup> Fl  
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  
W = Ambient Water  
SE = Sediment  
SL = Sludge  
T = Tissue  
O = Other DI WATER

### Sample Key

Collection  
Date  
(MM/DD/YY)

Collection  
Time  
(HH:MM)

Matrix Code

MS/MSD

# Containers

A Epi

A Hypo

B Epi

B Hvno

### Analyses Ordered (list)

### Preservative Codes:

(Please include in ( ) on "Analyses Ordered" line):

1 = Cool to < 6°C  
2 = 0.008% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
3 = H<sub>2</sub>SO<sub>4</sub> to pH < 2  
4 = HNO<sub>3</sub> to pH < 2  
5 = NaOH to pH > 12  
6 = 5 mL/L 12N HCl  
7 = 5 mL/L BrCl  
8 = HCl to pH < 2  
9 = H<sub>3</sub>PO<sub>4</sub> to pH < 2  
10 = Protect from light  
11 = Freeze to < -10°C  
12 = Other

Chl A Volume  
(ml)  
250

NYSDEC Sample ID

1701CAN0889\_N\_OW\_B

21L0081

06/ 2 /2021

12

W

X

### Special Analysis Instructions:

Relinquished by Sampler:

Date:

Time:

Received by:

Date:

Time:

Laboratory Receipt Notes:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Sample Temp.: \_\_\_\_\_°C

Properly Preserved: Y / N

Samples Intact: Y / N

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New York State DEC  
LCI



# CHAIN OF CUSTODY – ALS Rochester

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Department of  
Environmental  
Conservation

## Division of Water

(This COC for use with ALS  
Rochester only)

Project Name: LCI

Project Number: LCI21

NYSDEC SDG:

Sampler Collector:

*Alene Oni*

Sampler Signature:

*Alene Oni*

Sampler Phone No.:

Project Manager: Alene Oni

X Report to Project Manager

Bill to Project Manager:

Jason Fagel

Address: 625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3502

Address:

Address: 625 Broadway, 4<sup>th</sup> Fl  
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  
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W = Ambient Water  
SE = Sediment  
SL = Sludge  
T = Tissue  
O = Other DI WATER

### Sample Key

Collection  
Date  
(MM/DD/YY)

Collection  
Time  
(HH:MM)

Matrix Code

MS/MSD

# Containers

A Epi

A Hypo

B Epi

B Hvnn

### Analyses Ordered (list)

### Preservative Codes:

(Please include in ( ) on "Analyses Ordered" line):

1 = Cool to < 6°C  
2 = 0.008% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
3 = H<sub>2</sub>SO<sub>4</sub> to pH < 2  
4 = HNO<sub>3</sub> to pH < 2  
5 = NaOH to pH > 12  
6 = 5 mL/L 12N HCl  
7 = 5 mL/L BrCl  
8 = HCl to pH < 2  
9 = H<sub>3</sub>PO<sub>4</sub> to pH < 2  
10 = Protect from light  
11 = Freeze to < -10°C  
12 = Other

Chl A Volume  
(ml)

NYSDEC Sample ID

21L0141	06/ 2 /2021	815	W					X		300	1701AGA0815_US1_N_OW_B
21L0142	06/ 2 /2021	830	W					X		250	1701AGA0815_US2_N_OW_B
21L0143	06/ 2 /2021	845	W					X		250	1701AGA0815_US3_N_OW_B

### Special Analysis Instructions:

Relinquished by Sampler:	Date:	Time:	Received by:	Date:	Time:	Laboratory Receipt Notes:
<i>Alene Oni</i>	6/2/21	1836	<i>Samuel Hagan ALS</i>	6/2/21	1836	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Sample Temp.: °C
<i>Samuel Hagan ALS</i>	6/3/21	1633	<i>Samuel Hagan ALS</i>	6/3/21	1633	Properly Preserved: Y / N
						Samples Intact: Y / N

R2105522

New York State DEC  
LCI



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# Cooler Receipt and Preservation Check Form

R2105522

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New York State DEC  
LCI



Project/Client NYSDEC Folder Number \_\_\_\_\_

Cooler received on 6/13/21 by: ohw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

3. Temperature Readings Date: 6/13/21 Time: 1650 ID: IR#7 IR#1P From: Temp Blank Sample Bottle

Observed Temp (°C)							
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: Room by ohw on 6/13/21 at 1650  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 6/4/21 Time: 1245 by: ohw

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  
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH							
≤2	<u>223419</u>	HNO <sub>3</sub>	<input checked="" type="checkbox"/>	<u>1120092</u>					
≤2	<u>↓</u>	H <sub>2</sub> SO <sub>4</sub>	<input checked="" type="checkbox"/>	<u>16121-25 2410227</u>					
<4		NaHSO <sub>4</sub>							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>							
		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: 20411-24 albany  
Explain all Discrepancies/ Other Comments: \_\_\_\_\_

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ohw  
PC Secondary Review: ohw 6/9/21

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

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R2105522-001.01</b>	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-001.02</b>		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-001.03</b>		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-001.04</b>	SM20 10200 H	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-F01 / GLAFORCE	
<b>R2105522-001.05</b>	SM 2320 B-1997(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
<b>R2105522-001.06</b>	353.2,350.1,351.2,365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-001.07</b>	200.7,200.7,200.7,200.7,200.8	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
<b>R2105522-001.08</b>	300.0,300.0,353.2	6/4/2021	1243	SMO / GLAFORCE	

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	300.0,300.0,353.2	6/7/2021	1322	R-017 / GLAFORCE	
		6/7/2021	1327	RT000520 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-001.09</b>					
	SM 2120 B-2001(2011)	6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-002.01</b>					
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-002.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-002.03</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-002.04</b>					
	365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1325	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-003.01</b>					
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-003.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R2105522-003.03</b>		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-003.04</b>	SM20 10200 H	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-003.05</b>	SM 2320 B-1997(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
<b>R2105522-003.06</b>	353.2,350.1,351.2,365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-003.07</b>	200.7,200.7,200.7,200.7,200.8	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
<b>R2105522-003.08</b>	300.0,300.0,353.2	6/4/2021	1243	SMO / GLAFORCE	
		6/7/2021	1322	R-017 / GLAFORCE	
		6/7/2021	1327	RT000520 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-003.09</b>	SM 2120 B-2001(2011)	6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-004.01</b>	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	



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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	SM 5310 C-2000(2011)	6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-004.02					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-004.03					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-004.04					
	365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
R2105522-005.01					
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-005.02					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-005.03					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
R2105522-005.04					
	SM20 10200 H	6/4/2021	1243	SMO / GLAFORCE	

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	SM20 10200 H	6/4/2021	1250	R-F01 / GLAFORCE	
<b>R2105522-005.05</b>	SM 2320 B-1997(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
<b>R2105522-005.06</b>	353.2,350.1,351.2,365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-005.07</b>	200.7,200.7,200.7,200.7,200.8	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
<b>R2105522-005.08</b>	300.0,300.0,353.2	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1257	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-005.09</b>	SM 2120 B-2001(2011)	6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-006.01</b>	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-006.02</b>		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-006.03</b>					

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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-006.04</b>					
	365.1				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-007.01</b>					
	SM 5310 C-2000(2011)				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-007.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-007.03</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-007.04</b>					
	SM20 10200 H				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-F01 / GLAFORCE	
<b>R2105522-007.05</b>					
	SM 2320 B-1997(2011)				
		6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
<b>R2105522-007.06</b>					
	353.2,350.1,351.2,365.1				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	353.2,350.1,351.2,365.1	6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-007.07</b>	200.7,200.7,200.7,200.7,200.8	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
<b>R2105522-007.08</b>	300.0,300.0,353.2	6/4/2021	1243	SMO / GLAFORCE	
		6/7/2021	1322	R-017 / GLAFORCE	
		6/7/2021	1327	RT000520 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-007.09</b>	SM 2120 B-2001(2011)	6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-008.01</b>	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-008.02</b>		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-008.03</b>		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-008.04</b>	365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-009.01</b>					

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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
		R2105522-009.02			
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
		R2105522-009.03			
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
		R2105522-009.04			
	SM20 10200 H	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-F01 / GLAFORCE	
		R2105522-009.05			
	SM 2320 B-1997(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
		R2105522-009.06			
	353.2,350.1,351.2,365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
		R2105522-009.07			
	200.7,200.7,200.7,200.7,200.8	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
		R2105522-009.08			
	300.0,300.0,353.2	6/4/2021	1243	SMO / GLAFORCE	
		6/7/2021	1322	R-017 / GLAFORCE	

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**Internal Chain of Custody Report**

**Client:** New York State DEC  
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**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	300.0,300.0,353.2	6/7/2021	1327	RT000520 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-009.09</b>					
	SM 2120 B-2001(2011)	6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-010.01</b>					
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-010.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-010.03</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-010.04</b>					
	365.1	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-011.01</b>					
	SM 5310 C-2000(2011)	6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-011.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	

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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R2105522-011.03</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-011.04</b>					
	SM20 10200 H				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-F01 / GLAFORCE	
<b>R2105522-011.05</b>					
	SM 2320 B-1997(2011)				
		6/4/2021	1243	SMO / GLAFORCE	
		6/9/2021	1457	R-014 / GLAFORCE	
		6/9/2021	1502	RT000524 / GLAFORCE	
<b>R2105522-011.06</b>					
	353.2,350.1,351.2,365.1				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	
<b>R2105522-011.07</b>					
	200.7,200.7,200.7,200.7,200.8				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1250	R-A01 / GLAFORCE	
		6/7/2021	1036	In Lab / NMANSEN	
		6/7/2021	1153	R-A01 / NMANSEN	
<b>R2105522-011.08</b>					
	300.0,300.0,353.2				
		6/4/2021	1243	SMO / GLAFORCE	
		6/7/2021	1322	R-017 / GLAFORCE	
		6/7/2021	1327	RT000520 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-011.09</b>					
	SM 2120 B-2001(2011)				
		6/4/2021	1243	SMO / GLAFORCE	
<b>R2105522-012.01</b>					
	SM 5310 C-2000(2011)				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R2105522-012.02</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-012.03</b>					
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1258	RT000128 / GLAFORCE	
		6/4/2021	1259	R-017 / GLAFORCE	
		6/17/2021	1934	R-002 / GLAFORCE	
<b>R2105522-012.04</b>					
	365.1				
		6/4/2021	1243	SMO / GLAFORCE	
		6/4/2021	1324	RT000554 / GLAFORCE	
		6/4/2021	1325	R-016 / GLAFORCE	





## Miscellaneous Forms

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

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

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## REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	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 Certifications<sup>1</sup>

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	

<sup>1</sup> 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

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## 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.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

**Sample Name:** 21L0139  
**Lab Code:** R2105522-001  
**Sample Matrix:** Water

**Date Collected:** 06/1/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
200.7	NMANSEN	KMCLAEN
200.8	NMANSEN	KMCLAEN
300.0		KWONG
350.1		MROGERSON
351.2	CWOODS	GNITAJOUPPI
353.2		GNITAJOUPPI
353.2		SMEDBURY
365.1	GNITAJOUPPI	GNITAJOUPPI
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY
SM20 10200 H		NSMITH

**Sample Name:** 21L0139 Diss  
**Lab Code:** R2105522-002  
**Sample Matrix:** Water

**Date Collected:** 06/1/21  
**Date Received:** 06/3/21

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

**Sample Name:** 21L0140  
**Lab Code:** R2105522-003  
**Sample Matrix:** Water

**Date Collected:** 06/1/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
200.7	NMANSEN	KMCLAEN
200.8	NMANSEN	KMCLAEN
300.0		KWONG
350.1		MROGERSON
351.2	CWOODS	GNITAJOUPPI
353.2		SMEDBURY

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

**Sample Name:** 21L0140  
**Lab Code:** R2105522-003  
**Sample Matrix:** Water

**Date Collected:** 06/1/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY
SM20 10200 H		NSMITH

**Sample Name:** 21L0140 Diss  
**Lab Code:** R2105522-004  
**Sample Matrix:** Water

**Date Collected:** 06/1/21  
**Date Received:** 06/3/21

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

**Sample Name:** 21L0081  
**Lab Code:** R2105522-005  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
200.7	NMANSEN	KMCLAEN
200.8	NMANSEN	KMCLAEN
300.0		KWONG
350.1		MROGERSON
351.2	CWOODS	GNITAJOUPPI
353.2		SMEDBURY
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY
SM20 10200 H		NSMITH

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

**Sample Name:** 21L0081 Diss  
**Lab Code:** R2105522-006  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

**Analysis Method**

365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**

GNITAJOUPPI

**Analyzed By**

GNITAJOUPPI  
SMEDBURY

**Sample Name:** 21L0141  
**Lab Code:** R2105522-007  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

**Analysis Method**

200.7  
200.8  
300.0  
350.1  
351.2  
353.2  
353.2  
365.1  
SM 2120 B-2001(2011)  
SM 2320 B-1997(2011)  
SM 5310 C-2000(2011)  
SM20 10200 H

**Extracted/Digested By**

NMANSEN  
NMANSEN  
  
CWOODS

**Analyzed By**

KMCLAEN  
KMCLAEN  
KWONG  
MROGERSON  
GNITAJOUPPI  
GNITAJOUPPI  
SMEDBURY  
GNITAJOUPPI  
STALARICO  
KAWONG  
SMEDBURY  
NSMITH

**Sample Name:** 21L0141 Diss  
**Lab Code:** R2105522-008  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

**Analysis Method**

365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**

GNITAJOUPPI

**Analyzed By**

GNITAJOUPPI  
SMEDBURY

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

**Sample Name:** 21L0142  
**Lab Code:** R2105522-009  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
200.7	NMANSEN	KMCLAEN
200.8	NMANSEN	KMCLAEN
300.0		KWONG
350.1		MROGERSON
351.2	CWOODS	GNITAJOUPPI
353.2		SMEDBURY
353.2		GNITAJOUPPI
365.1	GNITAJOUPPI	GNITAJOUPPI
SM 2120 B-2001(2011)		STALARICO
SM 2320 B-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY
SM20 10200 H		NSMITH

**Sample Name:** 21L0142 Diss  
**Lab Code:** R2105522-010  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

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

**Sample Name:** 21L0143  
**Lab Code:** R2105522-011  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

Analysis Method	Extracted/Digested By	Analyzed By
200.7	NMANSEN	KMCLAEN
200.8	NMANSEN	KMCLAEN
300.0		KWONG
350.1		MROGERSON
351.2	CWOODS	GNITAJOUPPI
353.2		SMEDBURY

**ALS Group USA, Corp.**

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## Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI/LCI21

**Service Request:** R2105522

**Sample Name:** 21L0143  
**Lab Code:** R2105522-011  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

**Analysis Method**

353.2

365.1

SM 2120 B-2001(2011)

SM 2320 B-1997(2011)

SM 5310 C-2000(2011)

SM20 10200 H

**Extracted/Digested By**

GNITAJOUPPI

**Analyzed By**

GNITAJOUPPI

GNITAJOUPPI

STALARICO

KAWONG

SMEDBURY

NSMITH

**Sample Name:** 21L0143 Diss  
**Lab Code:** R2105522-012  
**Sample Matrix:** Water

**Date Collected:** 06/2/21  
**Date Received:** 06/3/21

**Analysis Method**

365.1

SM 5310 C-2000(2011)

**Extracted/Digested By**

GNITAJOUPPI

**Analyzed By**

GNITAJOUPPI

SMEDBURY





## 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
9034 Sulfide Acid Soluble	9030B
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
7199	3060A
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

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## Metals

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**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC

**Service Request:** 21L0139

**Project No.:** R2105522

**Date Collected:** 6/1/2021

**Project Name:**

**Date Received:** 6/3/2021

**Matrix:** WATER

**Units:** ug/L

**Basis:**

**Sample Name:** 21L0139

**Lab Code:** R2105522-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	1.0	U	
Calcium	200.7	1000	110	1.0	12200		
Iron	200.7	100	20.0	1.0	557		
Magnesium	200.7	1000	68.0	1.0	3580		
Manganese	200.7	10.0	1.7	1.0	545		

**% Solids:** 0.0

**Comments:**

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC

**Service Request:** 21L0139

**Project No.:** R2105522

**Date Collected:** 6/1/2021

**Project Name:**

**Date Received:** 6/3/2021

**Matrix:** WATER

**Units:** ug/L

**Basis:**

**Sample Name:** 21L0140

**Lab Code:** R2105522-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	0.37	J	
Calcium	200.7	1000	110	1.0	8120		
Iron	200.7	100	20.0	1.0	398		
Magnesium	200.7	1000	68.0	1.0	3400		
Manganese	200.7	10.0	1.7	1.0	23.8		

**% Solids:** 0.0

**Comments:**

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC

**Service Request:** 21L0139

**Project No.:** R2105522

**Date Collected:** 6/2/2021

**Project Name:**

**Date Received:** 6/3/2021

**Matrix:** WATER

**Units:** ug/L

**Basis:**

**Sample Name:** 21L0081

**Lab Code:** R2105522-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	1.0	U	
Calcium	200.7	1000	110	1.0	15300		
Iron	200.7	100	20.0	1.0	678		
Magnesium	200.7	1000	68.0	1.0	4700		
Manganese	200.7	10.0	1.7	1.0	670		

**% Solids:** 0.0

**Comments:**

---

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC**Service Request:** 21L0139**Project No.:** R2105522**Date Collected:** 6/2/2021**Project Name:****Date Received:** 6/3/2021**Matrix:** WATER**Units:** ug/L**Basis:**

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**Sample Name:** 21L0141**Lab Code:** R2105522-007

---

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	0.97	J	
Calcium	200.7	1000	110	1.0	24400		
Iron	200.7	100	20.0	1.0	462		
Magnesium	200.7	1000	68.0	1.0	10600		
Manganese	200.7	10.0	1.7	1.0	191		

**% Solids:** 0.0**Comments:**

---

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC**Service Request:** 21L0139**Project No.:** R2105522**Date Collected:** 6/2/2021**Project Name:****Date Received:** 6/3/2021**Matrix:** WATER**Units:** ug/L**Basis:**

---

**Sample Name:** 21L0142**Lab Code:** R2105522-009

---

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	0.89	J	
Calcium	200.7	1000	110	1.0	24100		
Iron	200.7	100	20.0	1.0	340		
Magnesium	200.7	1000	68.0	1.0	10600		
Manganese	200.7	10.0	1.7	1.0	144		

**% Solids:** 0.0**Comments:**



**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC **Service Request:** 21L0139  
**Project No.:** R2105522 **Date Collected:** 6/2/2021  
**Project Name:** **Date Received:** 6/3/2021  
**Matrix:** WATER **Units:** ug/L  
**Basis:**

**Sample Name:** 21L0143 **Lab Code:** R2105522-011

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.32	1.0	0.94	J	
Calcium	200.7	1000	110	1.0	23900		
Iron	200.7	100	20.0	1.0	309		
Magnesium	200.7	1000	68.0	1.0	10500		
Manganese	200.7	10.0	1.7	1.0	145		

% Solids: 0.0

Comments:



## General Chemistry

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0139  
**Lab Code:** R2105522-001

**Service Request:** R2105522  
**Date Collected:** 06/01/21 13:30  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	<b>31.0</b>	mg/L	2.0	1	06/11/21 12:29	NA	
Ammonia as Nitrogen	350.1	<b>0.128</b>	mg/L	0.010	1	06/15/21 19:40	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>4.2</b>	mg/L	1.0	1	06/16/21 09:06	NA	
Chloride	300.0	<b>57.2</b>	mg/L	2.0	10	06/12/21 19:26	NA	
Chlorophyll A	SM20 10200 H	<b>6.97</b>	ug/L	0.32	4	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>30.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	*
Hardness, Total as CaCO <sub>3</sub>	SM 2340 B-1997(2011)	<b>45.2</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>0.861</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>0.885</b>	mg/L	0.0020	1	06/08/21 16:01	NA	
Nitrite as Nitrogen	353.2	<b>0.023</b>	mg/L	0.010	1	06/03/21 18:50	NA	*
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>0.69</b>	mg/L	0.10	1	06/08/21 12:50	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>7.35</b>	pH Units	-	1	06/03/21 18:15	NA	*
Phosphorus, Total	365.1	<b>0.0448</b>	mg/L	0.0050	1	06/07/21 15:02	06/05/21	
Sulfate	300.0	<b>11.0</b>	mg/L	2.0	10	06/12/21 19:26	NA	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0139 Diss  
**Lab Code:** R2105522-002

**Service Request:** R2105522  
**Date Collected:** 06/01/21 13:30  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	06/16/21 03:11	NA	
Phosphorus, Dissolved	365.1	0.0165	mg/L	0.0050	1	06/07/21 15:03	06/05/21	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0140  
**Lab Code:** R2105522-003

**Service Request:** R2105522  
**Date Collected:** 06/01/21 10:45  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	<b>21.0</b>	mg/L	2.0	1	06/11/21 12:38	NA	
Ammonia as Nitrogen	350.1	<b>0.073</b>	mg/L	0.010	1	06/15/21 19:41	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>3.4</b>	mg/L	1.0	1	06/16/21 09:27	NA	
Chloride	300.0	<b>66.5</b>	mg/L	2.0	10	06/12/21 19:33	NA	
Chlorophyll A	SM20 10200 H	<b>3.24</b>	ug/L	0.080	1	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>27.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	*
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	<b>34.3</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>0.812</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>0.823</b>	mg/L	0.0020	1	06/08/21 16:02	NA	
Nitrite as Nitrogen	353.2	<b>0.011</b>	mg/L	0.010	1	06/03/21 18:50	NA	*
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>0.51</b>	mg/L	0.10	1	06/08/21 12:51	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>7.12</b>	pH Units	-	1	06/03/21 18:15	NA	*
Phosphorus, Total	365.1	<b>0.0251</b>	mg/L	0.0050	1	06/07/21 15:04	06/05/21	
Sulfate	300.0	<b>10.2</b>	mg/L	2.0	10	06/12/21 19:33	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0140 Diss  
**Lab Code:** R2105522-004

**Service Request:** R2105522  
**Date Collected:** 06/01/21 10:45  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	3.5	mg/L	1.0	1	06/16/21 04:14	NA	
Phosphorus, Dissolved	365.1	0.0094	mg/L	0.0050	1	06/07/21 15:05	06/05/21	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0081  
**Lab Code:** R2105522-005

**Service Request:** R2105522  
**Date Collected:** 06/02/21 12:00  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	<b>30.5</b>	mg/L	2.0	1	06/11/21 12:45	NA	
Ammonia as Nitrogen	350.1	<b>0.621</b>	mg/L	0.010	1	06/15/21 19:42	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>4.7</b>	mg/L	1.0	1	06/16/21 09:48	NA	
Chloride	300.0	<b>57.0</b>	mg/L	2.0	10	06/12/21 19:41	NA	
Chlorophyll A	SM20 10200 H	<b>0.54</b>	ug/L	0.16	1	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>40.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	
Hardness, Total as CaCO <sub>3</sub>	SM 2340 B-1997(2011)	<b>57.5</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>3.49</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>3.51</b>	mg/L	0.010	5	06/08/21 16:32	NA	
Nitrite as Nitrogen	353.2	<b>0.025</b>	mg/L	0.010	1	06/03/21 18:49	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>1.04</b>	mg/L	0.10	1	06/08/21 12:51	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>7.92</b>	pH Units	-	1	06/03/21 18:15	NA	
Phosphorus, Total	365.1	<b>0.0193</b>	mg/L	0.0050	1	06/07/21 15:06	06/05/21	
Sulfate	300.0	<b>17.2</b>	mg/L	2.0	10	06/12/21 19:41	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
**Sample Name:** 21L0081 Diss  
**Lab Code:** R2105522-006

**Service Request:** R2105522  
**Date Collected:** 06/02/21 12:00  
**Date Received:** 06/03/21 16:33  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.8	mg/L	1.0	1	06/16/21 04:34	NA	
Phosphorus, Dissolved	365.1	0.0083	mg/L	0.0050	1	06/07/21 15:07	06/05/21	



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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0141  
**Lab Code:** R2105522-007

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:15  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	<b>54.9</b>	mg/L	2.0	1	06/11/21 12:53	NA	
Ammonia as Nitrogen	350.1	<b>0.166</b>	mg/L	0.010	1	06/15/21 19:44	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>4.9</b>	mg/L	1.0	1	06/16/21 10:09	NA	
Chloride	300.0	<b>176</b>	mg/L	4.0	20	06/14/21 15:36	NA	
Chlorophyll A	SM20 10200 H	<b>29.3</b>	ug/L	2.7	20	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>10.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	<b>105</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>0.666</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>0.723</b>	mg/L	0.0020	1	06/08/21 16:05	NA	
Nitrite as Nitrogen	353.2	<b>0.057</b>	mg/L	0.010	1	06/03/21 18:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>2.01</b>	mg/L	0.10	1	06/08/21 12:54	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>8.62</b>	pH Units	-	1	06/03/21 18:15	NA	
Phosphorus, Total	365.1	<b>0.0918</b>	mg/L	0.0050	1	06/07/21 15:09	06/05/21	
Sulfate	300.0	<b>36.3</b>	mg/L	2.0	10	06/12/21 19:48	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
**Sample Name:** 21L0141 Diss  
**Lab Code:** R2105522-008

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:15  
**Date Received:** 06/03/21 16:33  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	06/16/21 04:55	NA	
Phosphorus, Dissolved	365.1	0.0064	mg/L	0.0050	1	06/07/21 15:10	06/05/21	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0142  
**Lab Code:** R2105522-009

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:30  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	<b>56.2</b>	mg/L	2.0	1	06/11/21 13:00	NA	
Ammonia as Nitrogen	350.1	<b>0.174</b>	mg/L	0.010	1	06/15/21 19:45	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>4.7</b>	mg/L	1.0	1	06/16/21 10:30	NA	
Chloride	300.0	<b>179</b>	mg/L	4.0	20	06/14/21 15:44	NA	
Chlorophyll A	SM20 10200 H	<b>34.1</b>	ug/L	3.2	20	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>35.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	<b>104</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>0.654</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>0.706</b>	mg/L	0.0020	1	06/08/21 16:06	NA	
Nitrite as Nitrogen	353.2	<b>0.053</b>	mg/L	0.010	1	06/03/21 18:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>1.62</b>	mg/L	0.10	1	06/08/21 12:55	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>8.72</b>	pH Units	-	1	06/03/21 18:15	NA	
Phosphorus, Total	365.1	<b>0.0696</b>	mg/L	0.0050	1	06/07/21 15:11	06/05/21	
Sulfate	300.0	<b>36.7</b>	mg/L	2.0	10	06/12/21 20:11	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0142 Diss  
**Lab Code:** R2105522-010

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:30  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	3.8	mg/L	2.0	2	06/18/21 18:28	NA	
Phosphorus, Dissolved	365.1	0.0077	mg/L	0.0050	1	06/07/21 15:14	06/05/21	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0143  
**Lab Code:** R2105522-011

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:45  
**Date Received:** 06/03/21 16:33

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	<b>56.2</b>	mg/L	2.0	1	06/11/21 13:07	NA	
Ammonia as Nitrogen	350.1	<b>0.217</b>	mg/L	0.010	1	06/15/21 19:46	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>4.6</b>	mg/L	1.0	1	06/16/21 10:51	NA	
Chloride	300.0	<b>179</b>	mg/L	4.0	20	06/14/21 15:51	NA	
Chlorophyll A	SM20 10200 H	<b>23.2</b>	ug/L	3.2	20	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	<b>11.0</b>	ColorUnits	5.0	1	06/03/21 18:15	NA	
Hardness, Total as CaCO <sub>3</sub>	SM 2340 B-1997(2011)	<b>103</b>	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	<b>0.646</b>	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	<b>0.704</b>	mg/L	0.0020	1	06/08/21 16:08	NA	
Nitrite as Nitrogen	353.2	<b>0.057</b>	mg/L	0.010	1	06/03/21 18:53	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	<b>1.55</b>	mg/L	0.10	1	06/08/21 12:56	06/07/21	
pH of Color Analysis	SM 2120 B-2001(2011)	<b>8.62</b>	pH Units	-	1	06/03/21 18:15	NA	
Phosphorus, Total	365.1	<b>0.0694</b>	mg/L	0.0050	1	06/07/21 15:15	06/05/21	
Sulfate	300.0	<b>36.3</b>	mg/L	2.0	10	06/12/21 20:18	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** 21L0143 Diss  
**Lab Code:** R2105522-012

**Service Request:** R2105522  
**Date Collected:** 06/02/21 08:45  
**Date Received:** 06/03/21 16:33  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	06/16/21 05:37	NA	
Phosphorus, Dissolved	365.1	0.0064	mg/L	0.0050	1	06/07/21 15:16	06/05/21	



## 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](http://www.alsglobal.com)



## Metals

**ALS Environmental—Rochester Laboratory**

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

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**METALS**

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**BLANKS**Contract: R2105522Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: 21L0139Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank			
	C	1	C	2	C	3	C	C		M	
Arsenic	0.32 U	0.32	U	0.32	U	-0.33	J	-0.37	J	MS	
Calcium	110.00 U	110.00	U	110.00	U	110.00	U	110.000	U	P	
Iron	20.00 U	20.00	U	20.00	U	20.00	U	20.000	U	P	
Magnesium	68.00 U	68.00	U	68.00	U	68.00	U	68.000	U	P	
Manganese	1.70 U	1.70	U	1.70	U	1.70	U	1.700	U	P	

Comments:

**METALS**

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**BLANKS**Contract: R2105522Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: 21L0139Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Arsenic		0.32	0.32							MS
Calcium		110.00	110.00	110.00						P
Iron		20.00	20.00	20.00						P
Magnesium		68.00	68.00	68.00						P
Manganese		1.70	1.70	1.70						P

Comments:

METALS

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BLANKS

Contract: R2105522

Lab Code:                      Case No.:                      SAS No.:                      SDG NO.: 21L0139

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		
		1	2	3						
Calcium		110.00								P
Iron		20.00								P
Magnesium		68.00								P
Manganese		1.70								P

Comments:

**METALS**

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**LABORATORY CONTROL SAMPLE**

Contract: **R2105522**

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: **21L0139**

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: **ACCUSTANDARD**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Arsenic	20.0	21.4	107						
Calcium	2000	1990	100						
Iron	1000	970	97						
Magnesium	2000	1910	96						
Manganese	500	480	96						

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

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
  
**Sample Name:** Method Blank  
**Lab Code:** R2105522-MB1

**Service Request:** R2105522  
**Date Collected:** NA  
**Date Received:** NA  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/11/21 10:07	NA	
Ammonia as Nitrogen	350.1	0.010 U	mg/L	0.010	1	06/15/21 19:24	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	06/15/21 09:29	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	06/16/21 03:53	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/12/21 18:39	NA	
Chlorophyll A	SM20 10200 H	0.40 U	ug/L	0.40	1	06/08/21 07:00	NA	
Color, True	SM 2120 B-2001(2011)	5.0 U	ColorUnits	5.0	1	06/03/21 18:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	06/08/21 15:39	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	06/03/21 18:47	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	06/08/21 12:39	06/07/21	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	06/07/21 14:47	06/05/21	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	06/07/21 14:47	06/05/21	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/12/21 18:39	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2105522-MB2

**Service Request:** R2105522  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	06/18/21 12:50	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/14/21 13:42	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	06/08/21 16:12	

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water

**Service Request:** R2105522  
**Date Collected:** 06/02/21  
**Date Received:** 06/03/21  
**Date Analyzed:** 06/8/21  
**Date Extracted:** 06/7/21

**Duplicate Matrix Spike Summary**  
**Nitrogen, Total Kjeldahl (TKN)**

**Sample Name:** 21L0143  
**Lab Code:** R2105522-011  
**Analysis Method:** 351.2  
**Prep Method:** Method

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike R2105522-011MS			Duplicate Matrix Spike R2105522-011DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrogen, Total Kjeldahl (TKN)	1.55	4.01	2.50	98	3.97	2.50	97	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.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.



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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water

**Service Request:** R2105522  
**Date Analyzed:** 06/03/21 - 06/16/21

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R2105522-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	20.6	20.0	103	70-130
Ammonia as Nitrogen	350.1	0.238	0.250	95	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.3	10.0	103	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.90	10.0	99	70-130
Chloride	300.0	1.97	2.00	98	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.498	0.500	100	70-130
Nitrite as Nitrogen	353.2	0.258	0.250	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.47	2.50	99	70-130
Phosphorus, Dissolved	365.1	0.0243	0.0250	97	70-130
Phosphorus, Total	365.1	0.0243	0.0250	97	70-130
Sulfate	300.0	1.99	2.00	100	70-130

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI21  
**Sample Matrix:** Water

**Service Request:** R2105522  
**Date Analyzed:** 06/08/21 - 06/18/21

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R2105522-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.6	10.0	106	70-130
Chloride	300.0	1.92	2.00	96	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.493	0.500	99	70-130