

Service Request No:R1808738

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 12, 2018 For your reference, these analyses have been assigned our service request number **R1808738**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger Project Manager

Jamansto

CC: Jason Fagel



Narrative Documents

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



Client: New York State DEC Service Request: R1808738

Project: LCI 2018 Date Received: 09/12/2018

Sample Matrix: Water

CASE NARRATIVE

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

Sample Receipt:

Twenty six water samples were received for analysis at ALS Environmental on 09/12/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

	Jaman Sox
Approved by	<u> </u>

Date	10/03/2018	
Daic	10/03/2010	



Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com Client: New York State DEC Project: LCI 2018/LCI2018

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1808738-001	18LHB309	9/11/2018	0930
R1808738-002	18LHB309 Diss	9/11/2018	0930
R1808738-003	18LHB317	9/11/2018	1120
R1808738-004	18LHB317 Diss	9/11/2018	1120
R1808738-005	18LHB318	9/11/2018	1125
R1808738-006	18LHB318 Diss	9/11/2018	1125
R1808738-007	18LHB305	9/11/2018	1300
R1808738-008	18LHB305 Diss	9/11/2018	1300
R1808738-009	18LHB323	9/11/2018	1415
R1808738-010	18LHB323 Diss	9/11/2018	1415
R1808738-011	18LHB321	9/11/2018	0912
R1808738-012	18LHB321 Diss	9/11/2018	0912
R1808738-013	18LHB322	9/11/2018	0925
R1808738-014	18LHB322 Diss	9/11/2018	0925
R1808738-015	18LHB319	9/11/2018	1145
R1808738-016	18LHB319 Diss	9/11/2018	1145
R1808738-017	18LHB320	9/11/2018	1206
R1808738-018	18LHB320 Diss	9/11/2018	1206
R1808738-019	18LHB311	9/11/2018	1351
R1808738-020	18LHB311 Diss	9/11/2018	1351
R1808738-021	18LHB312	9/11/2018	1400
R1808738-022	18LHB312 Diss	9/11/2018	1400
R1808738-023	18LISO60	9/11/2018	1324
R1808738-024	18LISO60 Diss	9/11/2018	1324
R1808738-025	18LISO62	9/11/2018	1530
R1808738-026	18LISO62 Diss	9/11/2018	1530

CHAIN OF CUSTODY

Page $\underline{\mathcal{I}}$ of $\underline{\mathcal{I}}$



Project Name: LCI

Sampler Collector:

Sampler Signature:

Sampler Signature:

Sampler Phone

Sura Granzale Z

Project Manager: Alene Onion

X Report to Project Manager

Bill to Project

Sampler Phone No.:

845-7/6-9575

Rill to Project Manager

New York State Department of Environmental Conservation – Division of Water

Phone: (518) 402-8166

Project Manager: Alene Onion

X Report to Project Manager
Report to:

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

X Report to Project Manager
Bill to: Jason Fagel

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

Phone: Phone: 518-402-8156

										Anal	yse	s O	rde	red	(list)				<u>Preserva</u>	tive Codes
Matrix Codes:				:		3			2		0	1.	3		0				0	0 = Cool to < 1 = HCL	6°C
ww = Wastewater Gw = Groundwater Aw = Ambient Water SE = Sediment SL = Sludge T = Tissue O = Other NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3 \(\frac{2}{5} \)	Dissolved TOP4	Fe, Mn, As,	Ca, Mg, Na, K	Fe, Mn, As, Ca, Mg, Na, K	Color	TOC	DOC	Alkalinity	SO4 & UV-254	S04. CI	SO4, CI, UV-254		Chlorophyll a Vol (ml)	2 = HNO ₃ 3 = H ₂ SO ₄ 4 = NaOH 5 = Zn. Aceta 6 = MeOH 7 = NaHSO4 8 = Other	
18448309	09/11	9:30	Air	8	X		K	X			X		X	X	火			X	250	Chon	kee Lie
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Special Analysis Instructions:

Relinquished by Sampler:	Date: 04/11	7:30 ₀	Received by:	Date:	Time:
Rollnquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Yima:	Restryed by Laboratory:	9/1414	Time: 0930

Laboratory Receipt Notes:

Properly New York State DEC Samples

7805 York State DEC 2018

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		Sampler Co			۔۔۔			•	Samp	ler S سر):					Sampler Phone No.: 518478 4475				
		Project M				on			X Report to Project Manager Report to:										ill to Proj to: Jason Fa	ect Mana	ger	
New York State Department of			Address: 625 Broadway, 4 th Floor Albany, NY 12233-3502						Address:									Add		Broadway, 4 Iny, NY 122		
Environmental Conserva	tion –	Phone: (518)	402-8166					٦,	Phone):								Pho	ne: 518-402-	-8156		
Division of Water	Ī	Email: alene	.onion@c	dec.n	y.gov	,		1	Email	:								Ema	ili: Jason.fag	el@dec.ny.gov		
										Ana	lyse	es 0	rde	red	(list	:)				Preserva	ative Co	des:
<u> Matrix Codes</u> :						3			2		0		3		0				0	0 = Cool to	6°C	
ww = Wastewater Gw = Groundwater Aw = Ambient Water SE = Sediment SL = Sludge T = Tissue O = Other	Collection Date	Collection Time	x Code	No. of Containers	NH4, NOx, TKN	NH4, NOx, TKN, NO3 🕏	1 TOP4	4.5,	Na, K	As, Ca, Mg, Na, K			ANC	λ	IV-254	ANC	UV-254		Chlorophyil a Vol (ml)	1 = HCL 2 = HNO ₃ 3 = H ₂ SO ₄ 4 = NaOH 5 = Zn. Acet 6 = MeOH 7 = NaHSO ₄ 8 = Other		-
NYSDEC LCI Sample ID	Collec	Collec	Matrix	No. o	TP, NH4	TP, NH4	Dissolved TOP4	Fe, Mn, As,	Ca, Mg, Na, K	Fe, Mn,	Color	тос	DOC	Alkalinity	SO4 & UV-254	SO4. CI	SO4, CI,		Ö	Loca	tion Inf	fo
18 LHB321	59/11/16	9:12	Aω	6	Х		×				Х	٨		X				1	250mL	Kinderh	ok ep	,
18 L 118 322	09/11/18			4	X		X				Α.	Χ				<u> </u>				Kinderh	ost has	, ,
19 LHB 319	09/11/18		Aω	7	X		X				X		×	X	X			X	Soome	Hollister	eni	
18 LNB 320	04/11/19	12:06	Aw	6	X		X	X			y		X		Υ					Holliste	hyps	
18 LNB 311	09/11/10	13:51	AW	7	X		×				×		Х	×	X			X	250mL	Copsaire	<u> </u>	
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Special Analysis Instruction	ons:							•					•		-					,		
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								7	of 81		•	•							·==·= +4 +4	aaiat tatit (899)	(14) (III)	7

Page $\frac{1}{\sqrt{2}}$ of $\frac{1}{\sqrt{2}}$ **CHAIN OF CUSTODY** Project Number: LCI2018 **NYSDEC SDG:** Project Name: LCI Sampler Signature: Sampler Phone No.: Sampler Collector: Aleus Driver 578 402 8166 ☐ Bill to Project Manager Project Manager: Alene Onion X Report to Project Manager Bill to: Jason Fagel Report to: Address: 625 Broadway, 4th Floor Address: 625 Broadway, 4th Floor Address: Albany, NY 12233-3502 Albany, NY 12233-3502 New York State Department of Phone: 518-402-8156 **Environmental Conservation -**Phone: Phone: (518) 402-8166 **Division of Water** Email: Jason.fagel@dec.ny.gov Email: alene.onion@dec.ny.gov Email: **Preservative Codes: Analyses Ordered (list)** 0 = Cool to < 6°C **Matrix Codes:** 0 2 1 = HCL **WW** = Wastewater ANC 2 = HNO₃ANC ANC ANC GW = Groundwater TP, NH4, NOx, TKN, NO3 3 = H2SO4 ¥ No. of Containers 4 = NaOHZa AW = Ambient Water **Collection Time** Chlorophyll a | Vol (ml) **Collection Date** 5 = Zn. Acetate SE = Sediment TP, NH4, NOx, TKN Σg, 6 = MeOH Code SL = Sludge SO4. CI 7 = NaHSO4T = Tissue Dissolved TOP4 8 = Other Q SO4 & UV-254 ¥ O = Other Mg, Na, Fe, Mn, As, Matrix Alkalinity Color 200 TOC NYSDEC **Location Info LCI Sample ID** Χ Fresh Pond (epi) ΑW 9/11/18 1324 6 18LIS060 Fresh Pond (hypo) ΔW 18LIS061 Big Reed Pond (epi) X Χ ΑW 9/11/18 1530 6 18LIS062 .-Big Reed Pend (hype) 18LIS063 Special Analysis Instructions: Time: **Laboratory Receipt Notes:** Date: Date: Time: Received by: ReliAquished by Sampler: 9/11/18 5:37 Time: Received by: Relinguished by: Sample Temp.: Properly Pre R1808738 Time: Received by Laboratory: Time: Date: Samples Int: New York State DEC Relinquished by: 0930 9/12/4



Cooler Receipt and Preservation Check Form



Folder Number COURIER: ALS OPS FEDEX VELOCITY CLIENT Were Custody seals on outside of cooler? Custody papers properly completed (ink, signed)? Did all bottles arrive in good condition (unbroken)? Folder Number COURIER: ALS OPS FEDEX VELOCITY CLIENT 5a Perchlorate samples have required headspace? Y N ON Sb Did VOA vials Alk or Sulfide have sig* bubbles? Y N NA Where did the bottles originate? ALS/ROC CLIENT	(AL	S)	Cooler .		.ipt &	1114 1	i egei ,	4110	ı Cı			_ (IIII			
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Circle Wet De Dry te Gel packs present? DN 7 Soil VOA received as: Bulk Encore 5035set Competition Soil	2 Custody	papers prope	rly completed (in	k, sigr	ned)? ((V) N	5b	Did V	OA via	ılş (Alk)	or Sulfid	e have :	sig* bub	bles?	(N) NA
Circle Wet De Dry te Gel packs present? DN 7 Soil VOA received as: Bulk Encore 5035set Competition Soil	3 Did all b	ottles arrive in	good condition	(unbro	ken)?	Y) N	6	Wher	e did th	e bottles	originat	e?	ALS/	ROC) (CLIENT
Temperature Readings Date: \$\frac{flulk}{\text{UN}}\$ Time: \$\text{\$0.33}\$	1				- 1		7	Soil V	OA rec	ceived a	s: Bi	ılk	Encore	5035se	(NA)
Deserved Temp (°C) Orrection Factor (°C) Orbosome of Temp (°C) Or							2-2	10	10.87	(Sud			. Т	D11	<u> </u>
Corrected Temp (°C)				75			_	:טו	IK#/	(IKA)			: remp	віапк С	Sample Boi
Corrected Temp (°C) S.O 3.6 3.6 3.6		- ` `						J							
Femp from: Type of bottle Condition C													<u> </u>	-	
Within 0-6°C? Color Green Samples frozen Color Homes Color Homes		<u> </u>		, ,	-										1
Foo'C, were samples frozen? Y N Y N Y N Y N Y N Y N Y N Y N Y N Y			- July	4					v	N		NI	v	N	V N
Same Day Rule Standing Approval Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by: Standing Approval Client aware at drop-off Client notified by: Client aware at drop-off Client notified by: Client aware at drop-off Client notified by: Client notified by: Client aware at drop-off Client notified by: Client notified b															
**No Samples held in storage location: Standing Approval Client aware at drop-off Client notified by:				e conc											
All samples held in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed in storage location: Samples placed plac		-								•	•				e Day Ita
Cooler Breakdown/Preservation Check**: Date: 9/13/11 Time: 0815 by: 09. Were all bottle labels complete (i.e. analysis, preservation, etc.)? 9. Were all bottle labels and tags agree with custody papers? 10. Did all bottle labels and tags agree with custody papers? 11. Were correct containers used for the tests indicated? 12. Were 5035 vials acceptable (no extra labels, not leaking)? 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated Tedlar® Bags Inflate	·							1	/	.0.6	¬			-	
Cooler Breakdown/Preservation Check**: Date: 9/13/11 Time: 0815 by: 09. Were all bottle labels complete (i.e. analysis, preservation, etc.)? 9. Were all bottle labels and tags agree with custody papers? 10. Did all bottle labels and tags agree with custody papers? 11. Were correct containers used for the tests indicated? 12. Were 5035 vials acceptable (no extra labels, not leaking)? 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated Tedlar® Bags Inflate			ge location:	Rock	<u> </u>		<u>e</u> or			0940					
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NaOH	pН		Reagent			Lot Re	eceived		Exp			1	1 -	ot Added	
Secondary reviewed by: Part Par	> 10	paper	N-OH	Yes	No	ļ			<u> </u>	Adjus	sted	Adde	d	-	pН
H2SO4		2021V	· · · · · · · · · · · · · · · · · · ·	1		 	11.709	7,	-				-		-
Solution		30750		-					1						_/_
Residual For CN, Phenol, 625, 625, 608, (-) 608pest, 522 CN), ascorbic (phenol). Na ₂ S ₂ O ₃ CN, ascorbic (phenol). Na ₂ S ₂ O ₃ CN, ascorbic (phenol). Na ₂ S ₂ O ₃ CN, ascorbic (phenol). Bottle lot numbers: (a) 133/2f, F-072-001, 07/UH- 2AHD Explain all Discrepancies/ Other Comments: W-154 b-tlls DO FLDT		*		- 		VIIIX	/ 	107				 		•	
Chlorine (-) Phenol, 625, 608pest, 522 Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). Na ₂ S ₂ O ₃ ZnAcetate HCl ** ** HCl ** ** Discrepancies/ Other Comments: W-154	5-9		For 608pest			No=No	otify for 3	day							
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Na ₂ S ₂ O ₃ ZnAcetate												ļ	l		
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Bottle lot numbers: 1/1/33/2F, 8-072-001, 07/U/I- 3/AM) Explain all Discrepancies/ Other Comments: UV-254 buttles DO FLDT	<u> </u>	1	†	_	 										
Bottle lot numbers: (1) 33/26 8-072-001, 07/61-3440 Explain all Discrepancies/ Other Comments: UV-254 battles CLRES BULK DO FLDT				**	**										al preservativ
Explain all Discrepancies/ Other Comments: CLRES BULK DO FLDT HPROD HGFB HTR LL3541 PH SUB SO3 MARRS ALS REV Labels secondary reviewed by: Q_						1			J	are ene	cked (Hot)	just repre	Zenjani ves	·	
Explain all Discrepancies/ Other Comments: CLRES BULK DO FLDT HPROD HGFB HTR LL3541 PH SUB SO3 MARRS ALS REV Labels secondary reviewed by: Q_	Bottle lot	numbers: /	J133/ZF 8	-072	-001	07/	1611- i	2AAV)							
Labels secondary reviewed by: DO FLDT HPROD HGFB HTR LL3541 PH SUB SO3 MARRS ALS REV	Explain al	II Discrepanci	es/ Other Comm	ents:	•	_		•							
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Labels secondary reviewed by:								,		av-	259 N	racis	<u>/</u> _	DO	
Labels secondary reviewed by:								Doh	Hp =	18LHB	317	Cac =	IYLHB31.	HPROD	
Labels secondary reviewed by: Q 1 1 lines matel										tenia	צנות נ	56		HTR	_
Labels secondary reviewed by: Q 1 1 lines matel								1 111		, 				PH	+
Labels secondary reviewed by: Q 1 1 lines matel							P	11/14	= 184	H1331	g a	X= 18	LHB3ZC	SO3 -	
Labels secollulary reviewed by.				^					_	times	wit	7		ALS	REV
		•		w	, /	1.1.0	<i>a</i>								
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P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r16.doc 3/12/18															



Miscellaneous Forms

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



REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

 The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	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

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 Service Request: R1808738

Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 5910 B	Water	UV254
SM20 10200 H	Water	Chlorophyll A

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB309
 Date Collected:
 09/11/18

 Lab Code:
 R1808738-001
 Date Received:
 09/12/18

Sample Matrix: Water

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

 Sample Name:
 18LHB309 Diss
 Date Collected:
 09/11/18

 Lab Code:
 R1808738-002
 Date Received:
 09/12/18

Sample Matrix: Water

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

 Sample Name:
 18LHB317
 Date Collected:
 09/11/18

 Lab Code:
 R1808738-003
 Date Received:
 09/12/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB317 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-004
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LHB318 Date Collected: 09/11/18

Lab Code: R1808738-005 **Date Received:** 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH CWOODS

353.2 MROGERSON

365.1 MROGERSON MROGERSON

ASTM D6919-09 AMOSES

SM 2120 B-2001(2011) SCYMBAL SM 5910 B MROGERSON

Sample Name: 18LHB318 Diss Date Collected: 09/11/18

 Sample Name:
 18LHB318 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-006
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LHB305 Date Collected: 09/11/18

Lab Code: R1808738-007 **Date Received:** 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

NSMITH CWOODS

353.2 MROGERSON

Printed 10/3/2018 9:28:55 AM Superset Reference:18-0000480401 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

Sample Name: 18LHB305 **Date Collected:** 09/11/18 Lab Code: R1808738-007 **Date Received:** 09/12/18

Sample Matrix: Water

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

Sample Name: 18LHB305 Diss **Date Collected:** 09/11/18 Lab Code: R1808738-008 **Date Received:** 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By 365.1 **KWONG GNITAJOUPPI**

Sample Name: 18LHB323 **Date Collected:** 09/11/18 **Date Received:** 09/12/18

Lab Code: R1808738-009

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB323 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-010
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18LHB321
 Date Collected: 09/11/18

 Lab Code:
 R1808738-011
 Date Received: 09/12/18

Lab Code: R1808738-011
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH CWOODS

353.2 MROGERSON

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 AMOSES SM 2120 B-2001(2011) SCYMBAL

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

SM20 10200 H NSMITH

Sample Name: 18LHB321 Diss

Date Collected: 09/11/18

Lab Code: R1808738-012 Date Received: 09/12/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LHB322 Date Collected: 09/11/18

Lab Code: R1808738-013 Date Received: 09/12/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH CWOODS 353.2 MROGERSON

Printed 10/3/2018 9:28:55 AM Superset Reference:18-0000480401 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB322
 Date Collected: 09/11/18

 Lab Code:
 R1808738-013
 Date Received: 09/12/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

ASTM D6919-09 AMOSES SM 2120 B-2001(2011) SCYMBAL

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18LHB322 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-014
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

 Sample Name:
 18LHB319
 Date Collected: 09/11/18

 Lab Code:
 R1808738-015
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By
300.0 AMOSES
351.2 NSMITH CWOODS
353.2 MROGERSON

53.2 MROGERSON 65.1 KWONG GNITAJOUPPI

365.1 KWONG GNITAJOUPPI ASTM D6919-09 AMOSES

SM 2120 B-2001(2011) SCYMBAL SM 2320 B-1997(2011) CWOODS

SM 5910 B MROGERSON SM20 10200 H NSMITH

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB319 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-016
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LHB320 Date Collected: 09/11/18

Lab Code: R1808738-017 **Date Received:** 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH CWOODS

353.2 MROGERSON

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 AMOSES

SM 2120 B-2001(2011) SCYMBAL

SM 5910 B MROGERSON

 Sample Name:
 18LHB320 Diss

 Lab Code:
 R1808738-018

 Date Received:
 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LHB311 Date Collected: 09/11/18

Lab Code: R1808738-019 Date Received: 09/12/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES 351.2 NSMITH CWOODS

Printed 10/3/2018 9:28:56 AM Superset Reference:18-0000480401 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB311
 Date Collected: 09/11/18

 Lab Code:
 R1808738-019
 Date Received: 09/12/18

Sample Matrix: Water

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

 Sample Name:
 18LHB311 Diss
 Date Collected:
 09/11/18

 Lab Code:
 R1808738-020
 Date Received:
 09/12/18

Sample Matrix: Water

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

 Sample Name:
 18LHB312
 Date Collected: 09/11/18

 Lab Code:
 R1808738-021
 Date Received: 09/12/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB312 Diss
 Date Collected:
 09/11/18

 Lab Code:
 R1808738-022
 Date Received:
 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LISO60 Date Collected: 09/11/18

Lab Code: R1808738-023 Date Received: 09/12/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH CWOODS

MROGERSON 353.2 KWONG GNITAJOUPPI

ASTM D6919-09 AMOSES

SM 2120 B-2001(2011) SCYMBAL

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

SM20 10200 H NSMITH

 Sample Name:
 18LISO60 Diss

 Lab Code:
 R1808738-024

 Date Received:
 09/12/18

Lab Code: R1808738-024 Date Received: 09/12/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By
365.1 KWONG GNITAJOUPPI

 Sample Name:
 18LISO62
 Date Collected: 09/11/18

 Lab Code:
 R1808738-025
 Date Received: 09/12/18

Sample Matrix: Water Date Received: 09/12

Analysis MethodExtracted/Digested ByAnalyzed By351.2NSMITHCWOODS

351.2 NSMITH CWOODS
353.2 MROGERSON

Printed 10/3/2018 9:28:56 AM Superset Reference:18-0000480401 rev 00

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1808738

 Sample Name:
 18LISO62
 Date Collected: 09/11/18

 Lab Code:
 R1808738-025
 Date Received: 09/12/18

Sample Matrix: Water

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

 Sample Name:
 18LISO62 Diss
 Date Collected: 09/11/18

 Lab Code:
 R1808738-026
 Date Received: 09/12/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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

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



Sample Results

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



Metals

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

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0910

Project No.: R1808738 **Date Collected:** 9/11/2018

Project Name: Date Received: 9/12/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB309 Lab Code: R1808738-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.2		
Iron	200.7	100	13.0	1.0	470		
Manganese	200.7	10.0	1.7	1.0	479		

% Solids: 0.0

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0910

Project Name: Date Received: 9/12/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB318 Lab Code: R1808738-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.2		
Iron	200.7	100	13.0	1.0	1270		
Manganese	200.7	10.0	1.7	1.0	339		

% Solids: 0.0

METALS -1INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0910

Project No.: R1808738 Date Collected: 9/11/2018

Project Name: Date Received: 9/12/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB323 Lab Code: R1808738-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	0.88	J	
Iron	200.7	100	13.0	1.0	608		
Manganese	200.7	10.0	1.7	1.0	80.9		

% Solids: 0.0

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0910

Project Name: Date Received: 9/12/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB320 Lab Code: R1808738-017

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	0.59	J	
Iron	200.7	100	13.0	1.0	401		
Manganese	200.7	10.0	1.7	1.0	1230		

% Solids: 0.0

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0910

Project No.: R1808738 **Date Collected:** 9/11/2018

Project Name: Date Received: 9/12/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB312 Lab Code: R1808738-021

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.1		
Iron	200.7	100	13.0	1.0	1600		
Manganese	200.7	10.0	1.7	1.0	1180		

% Solids: 0.0



General Chemistry

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

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LHB309

Lab Code: R1808738-001 Service Request: R1808738

Date Collected: 09/11/18 09:30

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	104	mg/L	2.0	1	09/17/18 20:50	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.500	mg/L	0.0050	1	09/18/18 23:53	NA	
Chlorophyll A	SM20 10200 H	17.2	ug/L	0.64	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	53.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0078	mg/L	0.0020	1	09/17/18 19:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.54	mg/L	0.10	1	09/24/18 18:39	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.48	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0986	mg/L	0.0050	1	09/21/18 17:16	09/19/18	
Sulfate	300.0	5.0	mg/L	2.0	10	09/17/18 20:09	NA	
UV254	SM 5910 B	0.255	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Collected: 09/11/18 09:30

Date Received: 09/12/18 09:30

Sample Name: 18LHB309 Diss Basis: NA

Lab Code: R1808738-002

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	8.7	mg/L	1.0	1	09/13/18 21:06	NA	
Phosphorus, Dissolved	365.1	0.0271	mg/L	0.0050	1	09/28/18 10:20	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LHB317

Lab Code: R1808738-003

Service Request: R1808738

Date Collected: 09/11/18 11:20

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	43.6	mg/L	2.0	1	09/17/18 20:55	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.147	mg/L	0.0050	1	09/19/18 00:09	NA	
Chlorophyll A	SM20 10200 H	18.1	ug/L	0.64	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	24.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0129	mg/L	0.0020	1	09/17/18 19:12	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.95	mg/L	0.10	1	09/24/18 18:39	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.25	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0307	mg/L	0.0050	1	09/21/18 17:17	09/19/18	
Sulfate	300.0	8.0	mg/L	2.0	10	09/17/18 20:14	NA	
UV254	SM 5910 B	0.0850	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 11:20

Date Received: 09/12/18 09:30

Sample Name: 18LHB317 Diss Basis: NA

Lab Code: R1808738-004

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.9	mg/L	1.0	1	09/13/18 22:51	NA	
Phosphorus, Dissolved	365.1	0.0116	mg/L	0.0050	1	09/28/18 10:23	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Collected: 09/11/18 11:25

Date Received: 09/12/18 09:30

Sample Name: 18LHB318 Basis: NA

Lab Code: R1808738-005

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.165	mg/L	0.0050	1	09/19/18 00:25	NA	
Color, True	SM 2120 B-2001(2011)	33.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0160	mg/L	0.0020	1	09/17/18 19:13	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.82	mg/L	0.10	1	09/24/18 18:40	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.54	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0441	mg/L	0.0050	1	09/21/18 17:19	09/19/18	
Sulfate	300.0	8.2	mg/L	2.0	10	09/17/18 20:19	NA	
UV254	SM 5910 B	0.0880	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: V

Sample Name:

Water

Service Request: R1808738

Date Collected: 09/11/18 11:25

Date Received: 09/12/18 09:30

18LHB318 Diss Basis: NA

Lab Code: R1808738-006

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.6	mg/L	1.0	1	09/13/18 23:12	NA	
Phosphorus, Dissolved	365.1	0.0096	mg/L	0.0050	1	09/28/18 10:24	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18LHB305 Basis: NA

Lab Code: R1808738-007

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	30.0	mg/L	2.0	1	09/17/18 20:59	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0053	mg/L	0.0050	1	09/19/18 00:41	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.0	mg/L	1.0	1	09/14/18 01:38	NA	
Chlorophyll A	SM20 10200 H	106	ug/L	11	40	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	110	ColorUnits	5.0	5	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0036	mg/L	0.0020	1	09/17/18 19:14	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.37	mg/L	0.10	1	09/24/18 18:42	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.02	pH Units	-	5	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0417	mg/L	0.0050	1	09/21/18 17:20	09/19/18	

Service Request: R1808738 **Date Collected:** 09/11/18 13:00

Date Received: 09/12/18 09:30

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 13:00

Date Received: 09/12/18 09:30

Sample Name: 18LHB305 Diss Basis: NA

Lab Code: R1808738-008

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0191	mg/L	0.0050	1	09/28/18 10:26	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LHB323

Lab Code: R1808738-009

Service Request: R1808738

Date Collected: 09/11/18 14:15

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	54.8	mg/L	2.0	1	09/17/18 21:04	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0676	mg/L	0.0050	1	09/19/18 00:57	NA	
Chlorophyll A	SM20 10200 H	4.74	ug/L	0.16	1	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	90.0	ColorUnits	5.0	5	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.109	mg/L	0.0020	1	09/17/18 19:16	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.83	mg/L	0.10	1	09/24/18 18:43	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.47	pH Units	-	5	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0751	mg/L	0.0050	1	09/21/18 17:21	09/19/18	
Sulfate	300.0	6.2	mg/L	2.0	10	09/17/18 20:24	NA	
UV254	SM 5910 B	0.288	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Collected: 09/11/18 14:15

Date Received: 09/12/18 09:30

Sample Name: 18LHB323 Diss Basis: NA

Lab Code: R1808738-010

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.3	mg/L	1.0	1	09/13/18 23:32	NA	
Phosphorus, Dissolved	365.1	0.0408	mg/L	0.0050	1	09/28/18 10:27	09/24/18	

Analytical Report

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

Water

LCI 2018/LCI2018

18LHB321 Basis: NA

Lab Code: R1808738-011

Sample Matrix:

Sample Name:

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	66.4	mg/L	2.0	1	09/17/18 21:14	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0461	mg/L	0.0050	1	09/19/18 01:14	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.1	mg/L	1.0	1	09/14/18 03:22	NA	
Chlorophyll A	SM20 10200 H	20.5	ug/L	0.64	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	32.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0197	mg/L	0.0020	1	09/17/18 19:17	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.69	mg/L	0.10	1	09/24/18 18:44	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.55	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0272	mg/L	0.0050	1	09/28/18 11:59	09/24/18	

Service Request: R1808738 **Date Collected:** 09/11/18 09:12

Date Received: 09/12/18 09:30

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 09:12

Date Received: 09/12/18 09:30

Sample Name: 18LHB321 Diss Basis: NA

Lab Code: R1808738-012

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0054	mg/L	0.0050	1	09/28/18 11:34	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738 **Date Collected:** 09/11/18 09:25

Date Received: 09/12/18 09:30

Sample Name: 18LHB322 Basis: NA

Lab Code: R1808738-013

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	1.54	mg/L	0.0050	1	09/19/18 03:22	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.0	mg/L	1.0	1	09/14/18 04:25	NA	
Color, True	SM 2120 B-2001(2011)	52.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0074	mg/L	0.0020	1	09/17/18 19:18	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.87	mg/L	0.10	1	09/24/18 18:51	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.51	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.117	mg/L	0.025	5	09/28/18 12:59	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 09:25

Date Received: 09/12/18 09:30

Sample Name: 18LHB322 Diss Basis: NA

Lab Code: R1808738-014

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.084	mg/L	0.025	5	09/28/18 10:31	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LHB319

Lab Code: R1808738-015

Service Request: R1808738

Date Collected: 09/11/18 11:45

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	66.0	mg/L	2.0	1	09/17/18 21:24	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/19/18 03:38	NA	
Chlorophyll A	SM20 10200 H	10.6	ug/L	0.32	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	42.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 19:20	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.51	mg/L	0.10	1	09/24/18 18:53	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.53	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0266	mg/L	0.0050	1	09/28/18 12:04	09/24/18	
Sulfate	300.0	5.5	mg/L	2.0	10	09/17/18 20:30	NA	
UV254	SM 5910 B	0.181	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Date Collected: 09/11/18 11:45

Date Received: 09/12/18 09:30

Basis: NA

Service Request: R1808738

Sample Name:

18LHB319 Diss

Lab Code:

R1808738-016

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	6.3	mg/L	1.0	1	09/13/18 23:53	NA	
Phosphorus, Dissolved	365.1	0.0079	mg/L	0.0050	1	09/28/18 10:32	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18LHB320

Lab Code: R1808738-017

Service Request: R1808738

Date Collected: 09/11/18 12:06

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0592	mg/L	0.0050	1	09/19/18 03:54	NA	
Color, True	SM 2120 B-2001(2011)	27.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0035	mg/L	0.0020	1	09/17/18 19:24	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.73	mg/L	0.10	1	09/24/18 18:54	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.43	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0759	mg/L	0.0050	1	09/28/18 12:05	09/24/18	
Sulfate	300.0	6.1	mg/L	2.0	10	09/17/18 20:35	NA	
UV254	SM 5910 B	0.112	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

Service Request: R1808738

Date Collected: 09/11/18 12:06

Basis: NA

Date Received: 09/12/18 09:30

Sample Name: 18LHB320 Diss

Lab Code: R1808738-018

Sample Matrix:

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.5	mg/L	1.0	1	09/14/18 00:14	NA	
Phosphorus, Dissolved	365.1	0.0307	mg/L	0.0050	1	09/28/18 10:33	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LHB311 Basis: NA

Lab Code: R1808738-019

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.0	mg/L	2.0	1	09/17/18 21:33	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0290	mg/L	0.0050	1	09/19/18 04:10	NA	
Chlorophyll A	SM20 10200 H	27.9	ug/L	0.64	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	43.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0040	mg/L	0.0020	1	09/17/18 19:25	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.91	mg/L	0.10	1	09/24/18 18:54	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.53	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0273	mg/L	0.0050	1	09/28/18 12:06	09/24/18	
Sulfate	300.0	5.4	mg/L	2.0	10	09/17/18 20:40	NA	
UV254	SM 5910 B	0.178	cm-1	-	1	09/12/18 22:40	NA	

Service Request: R1808738 **Date Collected:** 09/11/18 13:51

Date Received: 09/12/18 09:30

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Sample Name: Lab Code: R1808738-020

18LHB311 Diss

Service Request: R1808738

Date Collected: 09/11/18 13:51

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	7.1	mg/L	1.0	1	09/14/18 00:56	NA	
Phosphorus, Dissolved	365.1	0.0076	mg/L	0.0050	1	09/28/18 10:34	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Collected: 09/11/18 14:00

Date Received: 09/12/18 09:30

Sample Name: 18LHB312 Basis: NA

Lab Code: R1808738-021

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.144	mg/L	0.0050	1	09/19/18 04:26	NA	
Color, True	SM 2120 B-2001(2011)	58.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0073	mg/L	0.0020	1	09/17/18 19:27	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.85	mg/L	0.10	1	09/24/18 19:14	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.04	pH Units	-	1	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0417	mg/L	0.0050	1	09/28/18 12:07	09/24/18	
Sulfate	300.0	4.7	mg/L	2.0	10	09/17/18 20:45	NA	
UV254	SM 5910 B	0.213	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Sample Name:

Water

Service Request: R1808738

Date Collected: 09/11/18 14:00

Date Received: 09/12/18 09:30

18LHB312 Diss Basis: NA

Lab Code: R1808738-022

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	6.1	mg/L	1.0	1	09/14/18 01:17	NA	
Phosphorus, Dissolved	365.1	0.0125	mg/L	0.0050	1	09/28/18 10:36	09/24/18	

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LISO60

Lab Code: R1808738-023 Service Request: R1808738

Date Collected: 09/11/18 13:24

Date Received: 09/12/18 09:30

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	17.6	mg/L	2.0	1	09/17/18 21:45	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0058	mg/L	0.0050	1	09/19/18 06:34	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	13.4	mg/L	4.0	4	09/14/18 11:13	NA	
Chlorophyll A	SM20 10200 H	12.0	ug/L	0.64	4	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	80.0	ColorUnits	5.0	5	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 19:28	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.55	mg/L	0.10	1	09/24/18 19:32	09/21/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.37	pH Units	-	5	09/15/18 10:00	NA	*
Phosphorus, Total	365.1	0.0643	mg/L	0.0050	1	09/28/18 12:08	09/24/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 13:24

Date Received: 09/12/18 09:30

Sample Name: 18LISO60 Diss

Lab Code: R1808738-024

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0085	mg/L	0.0050	1	09/28/18 10:37	09/24/18	

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LISO62

Lab Code: R1808738-025 Service Request: R1808738

Date Collected: 09/11/18 15:30

Date Received: 09/12/18 09:30

Basis: NA

						Date	
Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
SM 2320 B-1997(2011)	2.0	mg/L	2.0	1	09/17/18 21:48	NA	
ASTM D6919-09	0.0057	mg/L	0.0050	1	09/19/18 06:51	NA	
SM 5310 C-2000(2011)	7.7	mg/L	2.0	2	09/14/18 11:34	NA	
SM20 10200 H	7.72	ug/L	0.64	4	09/25/18 10:35	NA	
SM 2120 B-2001(2011)	75.0	ColorUnits	5.0	5	09/12/18 14:00	NA	
353.2	0.0020 U	mg/L	0.0020	1	09/17/18 19:29	NA	
351.2	0.53	mg/L	0.10	1	09/24/18 19:33	09/21/18	
SM 2120 B-2001(2011)	6.21	pH Units	-	5	09/15/18 10:00	NA	*
365.1	0.0273	mg/L	0.0050	1	09/28/18 12:09	09/24/18	
	SM 2320 B-1997(2011) ASTM D6919-09 SM 5310 C-2000(2011) SM20 10200 H SM 2120 B-2001(2011) 353.2 351.2 SM 2120 B-2001(2011)	SM 2320 B-1997(2011) 2.0 ASTM D6919-09 0.0057 SM 5310 C-2000(2011) 7.7 SM20 10200 H 7.72 SM 2120 B-2001(2011) 75.0 353.2 0.0020 U 351.2 0.53 SM 2120 B-2001(2011) 6.21	SM 2320 B-1997(2011) 2.0 mg/L ASTM D6919-09 0.0057 mg/L SM 5310 C-2000(2011) 7.7 mg/L SM20 10200 H 7.72 ug/L SM 2120 B-2001(2011) 75.0 ColorUnits 353.2 0.0020 U mg/L 351.2 0.53 mg/L SM 2120 B-2001(2011) 6.21 pH Units	SM 2320 B-1997(2011) 2.0 mg/L 2.0 ASTM D6919-09 0.0057 mg/L 0.0050 SM 5310 C-2000(2011) 7.7 mg/L 2.0 SM20 10200 H 7.72 ug/L 0.64 SM 2120 B-2001(2011) 75.0 ColorUnits 5.0 353.2 0.0020 U mg/L 0.0020 351.2 0.53 mg/L 0.10 SM 2120 B-2001(2011) 6.21 pH Units -	SM 2320 B-1997(2011) 2.0 mg/L 2.0 1 ASTM D6919-09 0.0057 mg/L 0.0050 1 SM 5310 C-2000(2011) 7.7 mg/L 2.0 2 SM20 10200 H 7.72 ug/L 0.64 4 SM 2120 B-2001(2011) 75.0 ColorUnits 5.0 5 353.2 0.0020 U mg/L 0.0020 1 351.2 0.53 mg/L 0.10 1 SM 2120 B-2001(2011) 6.21 pH Units - 5	SM 2320 B-1997(2011) 2.0 mg/L 2.0 1 09/17/18 21:48 ASTM D6919-09 0.0057 mg/L 0.0050 1 09/19/18 06:51 SM 5310 C-2000(2011) 7.7 mg/L 2.0 2 09/14/18 11:34 SM20 10200 H 7.72 ug/L 0.64 4 09/25/18 10:35 SM 2120 B-2001(2011) 75.0 ColorUnits 5.0 5 09/12/18 14:00 353.2 0.0020 U mg/L 0.0020 1 09/17/18 19:29 351.2 0.53 mg/L 0.10 1 09/24/18 19:33 SM 2120 B-2001(2011) 6.21 pH Units - 5 09/15/18 10:00	Analysis Method Result Units MRL Dil. Date Analyzed Extracted SM 2320 B-1997(2011) 2.0 mg/L 2.0 1 09/17/18 21:48 NA ASTM D6919-09 0.0057 mg/L 0.0050 1 09/19/18 06:51 NA SM 5310 C-2000(2011) 7.7 mg/L 2.0 2 09/14/18 11:34 NA SM20 10200 H 7.72 ug/L 0.64 4 09/25/18 10:35 NA SM 2120 B-2001(2011) 75.0 ColorUnits 5.0 5 09/12/18 14:00 NA 353.2 0.0020 U mg/L 0.0020 1 09/17/18 19:29 NA 351.2 0.53 mg/L 0.10 1 09/24/18 19:33 09/21/18 SM 2120 B-2001(2011) 6.21 pH Units - 5 09/15/18 10:00 NA

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808738

Date Collected: 09/11/18 15:30

Date Received: 09/12/18 09:30

Basis: NA

Sample Name: 18LISO62 Diss

Lab Code: R1808738-026

		Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0144	mg/L	0.0050	1	09/28/18 10:38	09/24/18	



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



Metals

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BLANKS

Contract:	R1808738			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0910
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	Blank Concentration Units (ug/L,	, ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Conti	Continuing Calibration Blank ug/L						Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С			С		М
Arsenic	0.39	U	0.39	ŭ	0.39	Ū	0.39	Ū		0.39	U		MS
Iron	13.00	Ū	13.00	ŭ	13.00	Ū	13.00	Ū		13.000	U	Ì	P
Manganese	1.70	U	1.70	ט	1.70	Ū	1.70	U		1.700	U	ĺ	P

Comments:

-3-

BLANKS

Contract:	R1808738					
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0910
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concent	tration Units (ug/	L, ppt, or mg/kg):	UG/L		

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

Comments:

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Contract:	R1808738				18LHB312S	
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0910
Matrix (so	il/water):	WATER		Level	(low/med):	LOW
% Solids f	or Sample:	0.0				

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R Q	М
Iron	70 - 130	2520.00	1600.00	1000.0	92	P
Manganese	70 - 130	1630.00	1180.00	500.0	90	P

Comments:			
-			

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Contract:	R1808738				18LHB312SD	
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0910
Matrix (so	il/water):	WATER	_	Level	(low/med):	LOW
% Solids fo	or Sample:	0.0				

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R Q	М
Iron	70 - 130	2490.00	1600.00	1000.0	89	P
Manganese	70 - 130	1610.00	1180.00	500.0	86	P

Comments:			
-			
_			

METALS -6DUPLICATES

	SA	MΡ	LE	NO	
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Contract: R18	808738				18LHB312S	;D 	
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0910	
Matrix (soil/wa	ater):	WATER	1	Level (lo	ow/med):	LOW	
% Solids for Sa	ample:	0.0	% Solids	for Dupl	licate:	0.0	

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

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	м
Iron	1	2520.00		2	490.00	1		P
Manganese	1	1630.00		1	610.00	1		P

Comments:

-7-

LABORATORY CONTROL SAMPLE

Aqueous LC	S Source:	ACCUSTANDARD			
Solid LCS	Source:				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	LCI0910
Contract:	R1808738				

	Aqueous	s (ug/L	Solid (mg/K					
Analyte	True	Found	%R	True	Found	С	Limits	%R
Arsenic	20.0	21.1	106					
Iron	1000	971	97					
Manganese	500	505	101]			

Comments:



General Chemistry

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

Analytical Report

Client: New York State DEC Service Request: R1808738

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

Sample Name: Method Blank Basis: NA

Lab Code: R1808738-MB1

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/17/18 18:37	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/18/18 20:25	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/13/18 13:39	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/13/18 22:30	NA	
Chlorophyll A	SM20 10200 H	4.0 U	ug/L	4.0	1	09/25/18 10:35	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	09/12/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 18:50	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/24/18 18:25	09/21/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 10:17	09/24/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/21/18 16:47	09/19/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/17/18 18:51	NA	
UV254	SM 5910 B	0.00	cm-1	-	1	09/12/18 22:40	NA	

Analytical Report

Client: New York State DEC Service Request: R1808738

Project: LCI 2018/LCI2018

Date Collected: NA

Project: NA

Project: NA

Project: NA

Project: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

Lab Code: R1808738-MB2

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/17/18 20:44	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/19/18 02:50	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/13/18 22:30	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/14/18 10:20	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/24/18 18:47	09/21/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 11:45	09/24/18	

QA/QC Report

Client:New York State DECService Request:R1808738Project:LCI 2018/LCI2018Date Collected:09/11/18Sample Matrix:WaterDate Received:09/12/18

Date Analyzed: 09/17/18

Duplicate Matrix Spike Summary Nitrate+Nitrite as Nitrogen

 Sample Name:
 18LHB309
 Units: mg/L

 Lab Code:
 R1808738-001
 Basis: NA

Analysis Method: 353.2

Matrix SpikeDuplicate Matrix SpikeR1808738-001MSR1808738-001DMS

RPD Sample Spike **Spike** % Rec Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Nitrate+Nitrite as Nitrogen 0.0078 0.521 0.500 103 0.524 0.500 20 75-125

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

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

QA/QC Report

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

Sample Matrix: Water

Service Request:R1808738

Date Collected:09/11/18 **Date Received:**09/12/18

Date Analyzed:09/13/18 - 09/28/18

Duplicate Matrix Spike Summary General Chemistry Parameters

 Sample Name:
 18LHB309 Diss

 Lab Code:
 R1808738-002

Units:mg/L

Basis:NA

Matrix Spike

Duplicate Matrix Spike

R1808738-002MS

R1808738-002DMS

		Sample		Spike	%		Spike	%	% Rec		RPD
Analyte Name	Method	Result	Result	Amount	Rec	Result	Amount	Rec	Limits	RPD	Limit
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	8.7	20.0	10.0	112	19.5	10.0	108	75-125	2	20
Phosphorus, Dissolved	365.1	0.0271	0.0482	0.0250	85	0.0500	0.0250	92	75-125	4	20

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

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

QA/QC Report

Client: New York State DEC **Service Request:** R1808738 **Project:** LCI 2018/LCI2018 **Date Collected:** 09/11/18 **Date Received: Sample Matrix:** Water 09/12/18

Date Analyzed:

09/14/18

Duplicate Matrix Spike Summary Carbon, Total Organic (TOC)

Sample Name: 18LHB305 **Units:** mg/LLab Code: R1808738-007 **Basis:** NA

Analysis Method: SM 5310 C-2000(2011)

> **Matrix Spike** R1808738-007MS

Duplicate Matrix Spike

R1808738-007DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic (TOC)	10.0	22.0	10.0	120	21.6	10.0	116	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.

QA/QC Report

Client:New York State DECService Request:R1808738Project:LCI 2018/LCI2018Date Collected:09/11/18Sample Matrix:WaterDate Received:09/12/18Date Analyzed:09/14/18

Duplicate Matrix Spike Summary Carbon, Total Organic (TOC)

 Sample Name:
 18LHB321
 Units: mg/L

 Lab Code:
 R1808738-011
 Basis: NA

Analysis Method: SM 5310 C-2000(2011)

Matrix SpikeDuplicate Matrix SpikeR1808738-011MSR1808738-011DMS

% Rec **RPD** Sample **Spike Spike** Analyte Name Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Result Carbon, Total Organic (TOC) 17.3 10.0 16.6 10.0 20 6.1 75-125

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

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

QA/QC Report

Client: New York State DEC **Service Request:** R1808738 **Project:** LCI 2018/LCI2018 **Date Collected:** 09/11/18 **Sample Matrix:** Water **Date Received:** 09/12/18 **Date Analyzed:** 09/24/18 **Date Extracted:** 09/21/18

Duplicate Matrix Spike Summary

Nitrogen, Total Kjeldahl (TKN)

 Sample Name:
 18LHB322
 Units: mg/L

 Lab Code:
 R1808738-013
 Basis: NA

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

Matrix Spike Duplicate Matrix Spike

R1808738-013MS R1808738-013DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrogen, Total Kjeldahl (TKN)	1.87	4.23	2.50	95	4.14	2.50	91	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.

QA/QC Report

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

Sample Matrix: Water

Service Request:R1808738

Date Collected:09/11/18

Date Received:09/11/18

Date Analyzed:09/17/18 - 09/28/18

Duplicate Matrix Spike Summary General Chemistry Parameters

 Sample Name:
 18LISO62
 Units:mg/L

 Lab Code:
 R1808738-025
 Basis:NA

Matrix Spike

Duplicate Matrix Spike

R1808738-025MS

R1808738-025DMS

		Sample		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	0.523	0.500	105	0.520	0.500	104	75-125	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.53	2.77	2.50	90	2.74	2.50	89	75-125	<1	20
Phosphorus, Total	365.1	0.0273	0.0510	0.0250	94	0.0508	0.0250	94	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.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Water

Service Request: R1808738

LCI 2018/LCI2018

Date Collected: 09/11/18

Sample Matrix:

Date Received: 09/12/18

Date Analyzed: 09/12/18

Replicate Sample Summary

General Chemistry Parameters

Sample Name:

18LHB309

Units: cm-1

Lab Code:

Project

R1808738-001

Basis: NA

Duplicate

Sample

R1808738-

Sample

001DUP

Analysis Method Analyte Name

Result

Result

RPD Limit RPD

UV254

SM 5910 B

0.255

MRL

0.257

Average 0.256

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

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

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Project

Sample Matrix:

New York State DEC

Service Request: R1808738

LCI 2018/LCI2018

Date Collected: 09/11/18

Water **Date Received:** 09/12/18

Date Analyzed: 09/17/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LHB321 Units: mg/L

Lab Code: R1808738-011 **Basis:** NA

Duplicate Sample

R1808738-Sample 011DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitAlkalinity, Total as CaCO3SM 2320 B-1997(2011)2.066.466.066.2<1</td>20

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

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

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Water

LCI 2018/LCI2018

Service Request: R1808738 **Date Collected:** 09/11/18

Date Received: 09/12/18

Date Analyzed: 09/17/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LHB319 Units: mg/L

Lab Code: R1808738-015

Basis: NA

Duplicate

Sample R1808738-

66.0

Sample

Analyte Name

Project

Sample Matrix:

Analysis Method MRL

015DUP Result Average

RPD Limit

Alkalinity, Total as CaCO3

SM 2320 B-1997(2011)

2.0

Result 66.0

66.0

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

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

dba ALS Environmental

QA/QC Report

Client: New York State DEC
Project LCI 2018/LCI2018

Service Request: R1808738

Date Collected: 09/11/18

LCI 2018/LCI2018 Water

Date Received: 09/12/18

Date Analyzed: 09/12/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LISO62

R1808738-025

Sample Matrix:

Lab Code:

Units: ColorUnits

Basis: NA

Duplicate Sample R1808738-

Sample 025DUP

 Analyte Name
 Analysis Method
 MRL
 Result
 Result
 Average
 RPD
 RPD Limit

 Color, True
 SM 2120 B-2001(2011)
 5.0
 75.0
 75.0
 75.0
 <1</td>
 5

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

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

dba ALS Environmental

QA/QC Report

Client: New York State DEC Service Request: R1808738

Project LCI 2018/LCI2018

Date Collected: 09/11/18 **Date Received:** 09/12/18

Sample Matrix: Water

Date Analyzed: 09/15/18

Replicate Sample Summary General Chemistry Parameters

Sample Name:

18LISO62

Units: pH Units

Lab Code:

R1808738-025

Basis: NA

Duplicate Sample

R1808738-

Sample

025DUP

Analyte Name

MRL

Result

Result

Average

RPD

RPD Limit

Analysis Method pH of Color Analysis SM 2120 B-2001(2011) 6.21 6.21 6.21

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

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

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Analyzed: 09/13/18 - 09/28/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample

R1808738-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	20.0	104	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.529	0.500	106	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.62	10.0	96	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.522	0.500	104	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.31	2.50	92	70-130
Phosphorus, Dissolved	365.1	0.0227	0.0250	91	70-130
Phosphorus, Total	365.1	0.0247	0.0250	99	70-130
Sulfate	300.0	1.92	2.00	96	70-130

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808738

Date Analyzed: 09/14/18 - 09/28/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1808738-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	20.0	104	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.500	0.500	100	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.6	10.0	96	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.34	2.50	94	70-130
Phosphorus, Total	365.1	0.0242	0.0250	97	70-130