

Service Request No:R1806137

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 June 29, 2018 For your reference, these analyses have been assigned our service request number **R1806137**.

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

Camanesto

CC: Jason Fagel



Narrative Documents



Client: New York State DEC Service Request: R1806137

Project: LCI 2018 Date Received: 06/29/2018

Sample Matrix: Water

CASE NARRATIVE

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

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 06/29/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

General Chemistry:

No significant anomalies were noted with this analysis.

| | Jaman Son |
|-------------|-----------|
| Approved by | |

| Date | 07/20/2018 |
|---------|------------|
| I Jair: | 0///0//010 |



SAMPLE DETECTION SUMMARY

| CLIENT ID: 18LHB029 | | Lat | D: R1806 | 3137-001 | | |
|----------------------------------|---------|------|----------|----------|------------|--------------------------|
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Alkalinity, Total as CaCO3 | 194 | | 1.0 | 2.0 | mg/L | SM 2320 B-1997 (2011) |
| Ammonia as Nitrogen, undistilled | 0.189 | | 0.0008 | 0.0050 | mg/L | ASTM D6919-09 |
| Carbon, Total Organic (TOC) | 5.9 | | 0.05 | 1.0 | mg/L | SM 5310 C-2000 (2011) |
| Chlorophyll A | 24.9 | | | 0.80 | ug/L | SM20 10200 H |
| Color, True | 32.0 | | | 1.0 | ColorUnits | SM 2120 B-2001 (2011) |
| Nitrate+Nitrite as Nitrogen | 0.387 | | 0.0007 | 0.0020 | mg/L | 353.2 |
| Nitrogen, Total Kjeldahl (TKN) | 1.15 | | 0.08 | 0.10 | mg/L | 351.2 |
| pH of Color Analysis | 8.05 | | | | pH Units | SM 2120 B-2001 (2011) |
| Phosphorus, Total | 0.0203 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB029 Diss | | Lat | D: R1806 | 3137-002 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Phosphorus, Dissolved | 0.0103 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB021 | | Lak | D: R1806 | 137-003 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Alkalinity, Total as CaCO3 | 66.8 | | 1.0 | 2.0 | mg/L | SM 2320 B-1997 (2011) |
| Carbon, Total Organic (TOC) | 4.8 | | 0.05 | 1.0 | mg/L | SM 5310 C-2000 (2011) |
| Chlorophyll A | 26.8 | | | 0.80 | ug/L | SM20 10200 H |
| Color, True | 29.0 | | | 1.0 | ColorUnits | SM 2120 B-2001 (2011) |
| Nitrate+Nitrite as Nitrogen | 0.0073 | | 0.0007 | 0.0020 | mg/L | 353.2 |
| Nitrogen, Total Kjeldahl (TKN) | 0.78 | | 0.08 | 0.10 | mg/L | 351.2 |
| pH of Color Analysis | 8.22 | | | | pH Units | SM 2120 B-2001 (2011) |
| Phosphorus, Total | 0.0221 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB021 Diss | | Lak | D: R1806 | 3137-004 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Phosphorus, Dissolved | 0.0086 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB022 | | Lak | D: R1806 | 6137-005 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Ammonia as Nitrogen, undistilled | 0.588 | | 0.0008 | 0.0050 | mg/L | ASTM D6919-09 |
| Carbon, Total Organic (TOC) | 3.6 | | 0.05 | 1.0 | mg/L | SM 5310 C-2000 (2011) |
| Color, True | 33.0 | | | 1.0 | ColorUnits | SM 2120 B-2001 (2011) |
| Nitrate+Nitrite as Nitrogen | 0.0022 | | 0.0007 | 0.0020 | mg/L | 353.2 |
| Nitrogen, Total Kjeldahl (TKN) | 0.99 | | 80.0 | 0.10 | mg/L | 351.2 |
| pH of Color Analysis | 7.53 | | | | pH Units | SM 2120 B-2001 |



SAMPLE DETECTION SUMMARY

| CLIENT ID: 18LHB022 | | Lab | ID: R1806 | 137-005 | | |
|----------------------------------|---------|------|-----------|---------|------------|--------------------------|
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Phosphorus, Total | 0.0471 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB022 Diss | | Lak | ID: R1806 | 137-006 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Phosphorus, Dissolved | 0.0383 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB030 | | Lak | ID: R1806 | 137-007 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Ammonia as Nitrogen, undistilled | 1.64 | | 0.0008 | 0.0050 | mg/L | ASTM D6919-09 |
| Carbon, Total Organic (TOC) | 6.3 | | 0.05 | 1.0 | mg/L | SM 5310 C-2000 (2011) |
| Color, True | 49.0 | | | 1.0 | ColorUnits | SM 2120 B-2001 (2011) |
| Nitrate+Nitrite as Nitrogen | 0.0146 | | 0.0007 | 0.0020 | mg/L | 353.2 |
| Nitrogen, Total Kjeldahl (TKN) | 2.48 | | 0.08 | 0.10 | mg/L | 351.2 |
| pH of Color Analysis | 7.66 | | | | pH Units | SM 2120 B-2001 (2011) |
| Phosphorus, Total | 0.0472 | | 0.0020 | 0.0050 | mg/L | 365.1 |
| CLIENT ID: 18LHB030 Diss | | Lak | ID: R1806 | 137-008 | | |
| Analyte | Results | Flag | MDL | MRL | Units | Method |
| Phosphorus, Dissolved | 0.0140 | | 0.0020 | 0.0050 | mg/L | 365.1 |



Sample Receipt Information

Service Request:R1806137

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

SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | <u>DATE</u> | <u>TIME</u> |
|--------------|------------------|-------------|-------------|
| R1806137-001 | 18LHB029 | 6/27/2018 | 1510 |
| R1806137-002 | 18LHB029 Diss | 6/27/2018 | 1510 |
| R1806137-003 | 18LHB021 | 6/27/2018 | 1310 |
| R1806137-004 | 18LHB021 Diss | 6/27/2018 | 1310 |
| R1806137-005 | 18LHB022 | 6/27/2018 | 1326 |
| R1806137-006 | 18LHB022 Diss | 6/27/2018 | 1326 |
| R1806137-007 | 18LHB030 | 6/27/2018 | 1520 |
| R1806137-008 | 18LHB030 Diss | 6/27/2018 | 1520 |

Page ___ of ___ **CHAIN OF CUSTODY** Project Number: LCI2018 **NYSDEC SDG:** Project Name: LCI Sampler Collector: Sampler Signature: Sampler Phone No.: Project Manager: Alene Onion ☐ Bill to Project Manager 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 **Environmental Conservation –** Phone: (518) 402-8166 Phone: Phone: 518-402-8156 Division of Water Email: alene.onion@dec.ny.gov Email: Email: Jason.fagel@dec.ny.gov **Analyses Ordered (list) Preservative Codes: Matrix Codes:** 0 = Cool to < 6°C 2 1 = HCL WW = Wastewater ANC ANC ANC 2 = HNO₃ GW = Groundwater NO3 3 = H₂SO₄ of Containers AW = Ambient Water Za, 4 = NaOH Date **Collection Time** SE = Sediment TKN, 5 = Zn. Acetate Chlorophyll a | Vol (ml) TP, NH4, NOx, TKN δία Σ Code SL = Sludge 6 = MeOH 7 = NaHSO4T = Tissue CI, UV-254 Collection Dissolved TOP4 Q & UV-254 TP, NH4, NOx, 8 = Other ¥ O = Other Mg, Na, As, Matrix Alkalinity Fe, Mn, , 힉 NYSDEC Color TOC DOC SO4. **LCI Sample ID Location Info** 15:10 AW 500 18 LHB029 6127/18 Rensselaer - Ep: 6/27/18 13:10 AW 18 LHBU21 500 Konderheak - Fri V Kinderhade - Hugo 13.26 AW 1864BG2Z 6/27/18 Rensselaer - Hips × 1.127/18 15:20 AW 18 LHB030 R1806137 **Special Analysis Instructions:** Relinguished by Sampler: Received by: Time: Time: **Laboratory Receipt Notes:** Stephania June 1100 11:00 Received by Timo: Time: Relinquished by: 6/18/18 1600 Sample Temp.: _____°C Timo: Received by Laboratory: Properly Preserved: Y / N Relinguished by: Time: Samples Intact: Y / N



Cooler Receipt and Preservation Check Form

R1806137 5
New York State DEC

| roject/Client | | | | | Fol | der Nur | nber | | | | | | | | |
|------------------------------------|------------|---|---|-------------|--|---------------------------|---------------------------------------|--|--------------|--------------|--|----------------|---|--------------|--------------|
| ooler received on | 6/29 | lis | by: | Ø | _ | COU | RIER: | ALS | UPS | E DE | X) VEL | OCITY | CLIEN | Γ | • |
| | | outside of coole | | | N | 5a | Perch | lorate s | amples | have re | quired he | adspac | e? Y | N | (A) |
| 1 | | y completed (in | | | Y) N | 5b | Did V | OA via | ls, Alk, | or Sulfid | e have si | g * bub | bles? Y | ' (N |) NA |
| | | ood condition | | | Ŷ N | 6 | Where | did the | bottles | origina | te? | (ALS) | ROC (| LIE | ND - |
| 1 | - | ce Gel packs | | ent? | Y) N | 7_ | Soil V | OA rec | eived a | s: B | ulk Ei | icore | 5035set | N | 3 |
| Temperature Rea | dings | Date: 6/39 | IN | _ _Time: | 08 | 40 | ID: | (R#) | IR#9 | | From: | Temp | Blank & | amp | e Bottle |
| Observed Temp (| °C) | 3./ | | | | <u> </u> | | | | | | | | | |
| Correction Factor | (°C) | +0.8 | | | | | | | | | | | | | |
| Corrected Temp (| °C) | 3.9 | | | | | | | | | | | | • • | |
| Temp from:Type | of bottle | Cont tul | 4 | | | | | | | | | | · | | |
| Within 0-6°C? | | (Y) N | | Y | N | Y | N | Y | N | Y | N | Y | N | _Y | N_ |
| f<0°C, were sam | ples froze | n? Y N | | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N |
| If out of Temp | erature. n | ote packing/ic | e cond | ition: | | | Ice melt | ed P | oorly P | acked (c | lescribed | below |) Sai | me D | ay Rule |
| &Client Appro | | | | | | | ' | | - | | | | • | | |
| | | | | | | | | / | | | | , | | | |
| All samples held | | | R-00 | | | | n 419 | at _ | CF48 | | | | | | |
| 035 samples pla | ced in sto | rage location: | | { | оу | O | n <u> </u> | _ at _ | | | | | | | |
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| Cooler Breakdo 9. Were a | | vation Check** abels complete | | | | | _Time:_ c.)? | 110 | Œ | ES | : >/ W NO | | | | |
| 10. Did all | bottle lab | els and tags ag | ree with | custo | dy pap | ers? | , | | ď | ĒŠ | NO | | | | |
| | | tainers used fo | | | | | | | ď | ES | NO | | | _ | |
| 12. Were : | | acceptable (no | | | | | | | - | 'ES | NO | _ | Ø | A | |
| | | ssettes / Tubes | | | | | s Pressur | | | | Bags Inf | | <u>(N</u> | <u>/A</u> | T72= - 1 |
| • | | Reagent | Preser | | Lot R | Received | | Exp | Samp | | Vol. Added | | ot Added | ŀ | Final pH |
| pap | | NaOH | Yes | No | | | | F | Adjus | | Auded | - | • | | hri |
| ≥12 ≤2 | | NaOH HNO3 | | + | | | | <u> </u> | | | | | | + | |
| | | H ₂ SO ₄ | \ V | 1 | 1887 | 09 | | SIA | | | 1 | _ | | | |
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| 5-9 | | For 608pest | | 1 | No=N | lotify for | 3day | | | | | | | | |
| Residual | - | For CN, | | | lf+, c | ontact PM | to add | | | | | | - - | | |
| Chlorine | | Phenol, 625, | | | | O3 (625, 6 ascorbic (p | - | | | | | | | | |
| (-) | | 608pest, 522 | | <u> </u> | | (1 | | | | | + | - | | \dashv | |
| | | Na ₂ S ₂ O ₃ | | - | - | | · . | | **VO | s and 166 | 4 Not to be | tested l | before analys | is. | |
| • | | Zn Acetate HCl | ** | ** | | | | | Otherv | rise, all bo | ttles of all | amples | with chemic | al pres | ervatives |
| | L | 1101 | | 1 | | | · · · · · · · · · · · · · · · · · · · | <u></u> | are che | cked (not | just represe | ntatives | i) <u>. </u> | | |
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| | | | | | | | | | | | | | PH | SUE | 3 |
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| | | | | | | | | | | | | | ALS | REV | <u>/</u>] |
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| | | | | | | | | | | | | | | | |



Miscellaneous Forms



REPORT QUALIFIERS AND DEFINITIONS

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

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

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



Rochester Lab ID # for State Certifications¹

| Connecticut ID # PH0556 | Maine ID #NY0032 | New Hampshire ID # |
|-------------------------|-----------------------|-------------------------|
| Delaware Approved | New Jersey ID # NY004 | 294100 A/B |
| DoD ELAP #65817 | New York ID # 10145 | Pennsylvania ID# 68-786 |
| Florida ID # E87674 | North Carolina #676 | Rhode Island ID # 158 |
| | | Virginia #460167 |

¹ Analyses were performed according to our laboratory

NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="https://www.alsglobal.com/locations/americas/north-

ALS Laboratory Group

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

Client: New York State DEC Service Request: R1806137

Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

MethodMatrixAnalyteSM20 10200 HWaterChlorophyll A

Analyst Summary report

Client: New York State DEC Service Request: R1806137

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB029
 Date Collected: 06/27/18

 Lab Code:
 R1806137-001
 Date Received: 06/29/18

Sample Matrix: Water

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

 Sample Name:
 18LHB029 Diss
 Date Collected:
 06/27/18

 Lab Code:
 R1806137-002
 Date Received:
 06/29/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1MROGERSONKMENGS

 Sample Name:
 18LHB021
 Date Collected:
 06/27/18

 Lab Code:
 R1806137-003
 Date Received:
 06/29/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1806137

Project: LCI 2018/LCI2018

 Sample Name:
 18LHB021 Diss
 Date Collected: 06/27/18

 Lab Code:
 R1806137-004
 Date Received: 06/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 MROGERSON KMENGS

Sample Name: 18LHB022 Date Collected: 06/27/18

Lab Code: R1806137-005 **Date Received:** 06/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 GNITAJOUPPI

365.1 MROGERSON KMENGS

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

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LHB022 Diss Date Collected: 06/27/18

Lab Code: R1806137-006 Date Received: 06/29/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 MROGERSON KMENGS

Sample Name: 18LHB030 Date Collected: 06/27/18

Lab Code: R1806137-007 **Date Received:** 06/29/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 GNITAJOUPPI

365.1 MROGERSON KMENGS

ASTM D6919-09 AMOSES

SM 2120 B-2001(2011)

DWARD

Printed 7/20/2018 8:35:33 AM Superset Reference:18-0000472002 rev 00

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1806137

Sample Name: 18LHB030 **Lab Code:** R1806137-00'

Lab Code: R1806137-007 **Sample Matrix:** Water **Date Collected:** 06/27/18

Date Received: 06/29/18

Analysis Method

SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

CWOODS

Sample Name: 18LHB030 Diss

Lab Code:

R1806137-008

Sample Matrix: Water

Date Collected: 06/27/18

Date Received: 06/29/18

Analysis Method

365.1

Extracted/Digested By

Analyzed By

MROGERSON KMENGS



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



General Chemistry

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

v York State DEC

18LHB029 Basis: NA

Lab Code: R1806137-001

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) | 194 | mg/L | 2.0 | 1 | 07/09/18 22:37 | NA | |
| Ammonia as Nitrogen, undistilled | ASTM D6919-09 | 0.189 | mg/L | 0.0050 | 1 | 07/11/18 00:00 | NA | |
| Carbon, Total Organic (TOC) | SM 5310 C-2000(2011) | 5.9 | mg/L | 1.0 | 1 | 07/11/18 19:38 | NA | |
| Chlorophyll A | SM20 10200 H | 24.9 | ug/L | 0.80 | 10 | 07/17/18 09:30 | NA | |
| Color, True | SM 2120 B-2001(2011) | 32.0 | ColorUnits | 1.0 | 1 | 06/29/18 12:55 | NA | |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.387 | mg/L | 0.0020 | 1 | 07/11/18 12:54 | NA | |
| Nitrogen, Total Kjeldahl (TKN) | 351.2 | 1.15 | mg/L | 0.10 | 1 | 07/06/18 13:24 | 07/05/18 | |
| pH of Color Analysis | SM 2120 B-2001(2011) | 8.05 | pH Units | - | 1 | 06/30/18 08:30 | NA | * |
| Phosphorus, Total | 365.1 | 0.0203 | mg/L | 0.0050 | 1 | 07/03/18 09:31 | 07/02/18 | |

Service Request: R1806137 **Date Collected:** 06/27/18 15:10

Date Received: 06/29/18 08:35

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1806137

Date Collected: 06/27/18 15:10

Date Received: 06/29/18 08:35

Basis: NA

Date Extracted

Sample Name: 18LHB029 Diss

Lab Code: R1806137-002

Inorganic Parameters

Analysis
Analyte Name Method Result Units MRL Dil. Date Analyzed

Phosphorus, Dissolved 365.1 **0.0103** mg/L 0.0050 1 07/03/18 09:24 07/02/18

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18LHB021 Basis: NA

Lab Code: R1806137-003

Inorganic Parameters

| | | | | | | Date | |
|----------------------|---|---|---|---|--|---|--|
| Analysis Method | Result | Units | MRL | Dil. | Date Analyzed | Extracted | Q |
| SM 2320 B-1997(2011) | 66.8 | mg/L | 2.0 | 1 | 07/09/18 22:43 | NA | |
| ASTM D6919-09 | 0.0050 U | mg/L | 0.0050 | 1 | 07/11/18 00:16 | NA | |
| SM 5310 C-2000(2011) | 4.8 | mg/L | 1.0 | 1 | 07/11/18 19:59 | NA | |
| SM20 10200 H | 26.8 | ug/L | 0.80 | 10 | 07/17/18 09:30 | NA | |
| SM 2120 B-2001(2011) | 29.0 | ColorUnits | 1.0 | 1 | 06/29/18 12:55 | NA | |
| 353.2 | 0.0073 | mg/L | 0.0020 | 1 | 07/11/18 12:56 | NA | |
| 351.2 | 0.78 | mg/L | 0.10 | 1 | 07/06/18 13:25 | 07/05/18 | |
| SM 2120 B-2001(2011) | 8.22 | pH Units | - | 1 | 06/30/18 08:30 | NA | * |
| 365.1 | 0.0221 | mg/L | 0.0050 | 1 | 07/03/18 09:32 | 07/02/18 | |
| | 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) 66.8 ASTM D6919-09 0.0050 U SM 5310 C-2000(2011) 4.8 SM20 10200 H 26.8 SM 2120 B-2001(2011) 29.0 353.2 0.0073 351.2 0.78 SM 2120 B-2001(2011) 8.22 | SM 2320 B-1997(2011) 66.8 mg/L ASTM D6919-09 0.0050 U mg/L SM 5310 C-2000(2011) 4.8 mg/L SM20 10200 H 26.8 ug/L SM 2120 B-2001(2011) 29.0 ColorUnits 353.2 0.0073 mg/L 351.2 0.78 mg/L SM 2120 B-2001(2011) 8.22 pH Units | SM 2320 B-1997(2011) 66.8 mg/L 2.0 ASTM D6919-09 0.0050 U mg/L 0.0050 SM 5310 C-2000(2011) 4.8 mg/L 1.0 SM20 10200 H 26.8 ug/L 0.80 SM 2120 B-2001(2011) 29.0 ColorUnits 1.0 353.2 0.0073 mg/L 0.0020 351.2 0.78 mg/L 0.10 SM 2120 B-2001(2011) 8.22 pH Units - | SM 2320 B-1997(2011) 66.8 mg/L 2.0 1 ASTM D6919-09 0.0050 U mg/L 0.0050 I 1 SM 5310 C-2000(2011) 4.8 mg/L 1.0 1 SM20 10200 H 26.8 ug/L 0.80 10 SM 2120 B-2001(2011) 29.0 ColorUnits 1.0 1 353.2 0.0073 mg/L 0.0020 1 351.2 0.78 mg/L 0.10 1 SM 2120 B-2001(2011) 8.22 pH Units - 1 | SM 2320 B-1997(2011) 66.8 mg/L 2.0 1 07/09/18 22:43 ASTM D6919-09 0.0050 U mg/L 0.0050 I 0.7/11/18 00:16 SM 5310 C-2000(2011) 4.8 mg/L 1.0 1 07/11/18 19:59 SM20 10200 H 26.8 ug/L 0.80 10 07/17/18 09:30 SM 2120 B-2001(2011) 29.0 ColorUnits 1.0 1 06/29/18 12:55 353.2 0.0073 mg/L 0.0020 1 07/11/18 12:56 351.2 0.78 mg/L 0.10 1 07/06/18 13:25 SM 2120 B-2001(2011) 8.22 pH Units - 1 06/30/18 08:30 | Analysis Method Result Units MRL Dil. Date Analyzed Extracted SM 2320 B-1997(2011) 66.8 mg/L 2.0 1 07/09/18 22:43 NA ASTM D6919-09 0.0050 U mg/L 0.0050 1 07/11/18 00:16 NA SM 5310 C-2000(2011) 4.8 mg/L 1.0 1 07/11/18 19:59 NA SM20 10200 H 26.8 ug/L 0.80 10 07/17/18 09:30 NA SM 2120 B-2001(2011) 29.0 ColorUnits 1.0 1 06/29/18 12:55 NA 353.2 0.0073 mg/L 0.0020 1 07/11/18 12:56 NA 351.2 0.78 mg/L 0.10 1 07/06/18 13:25 07/05/18 SM 2120 B-2001(2011) 8.22 pH Units - 1 06/30/18 08:30 NA |

Service Request: R1806137

Date Collected: 06/27/18 13:10

Date Received: 06/29/18 08:35

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1806137

Date Collected: 06/27/18 13:10

Date Received: 06/29/18 08:35

Sample Name: 18LHB021 Diss Basis: NA

Lab Code: R1806137-004

| | Analysis | | | | | | | |
|-----------------------|----------|--------|-------|--------|------|----------------|----------------|---|
| Analyte Name | Method | Result | Units | MRL | Dil. | Date Analyzed | Date Extracted | Q |
| Phosphorus, Dissolved | 365.1 | 0.0086 | mg/L | 0.0050 | 1 | 07/03/18 09:25 | 07/02/18 | |

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

Date Received: 06/29/18 08:35

Service Request: R1806137 **Date Collected:** 06/27/18 13:26

18LHB022 Basis: NA

Lab Code: R1806137-005

| | | | | | | | Date | |
|----------------------------------|----------------------|--------|------------|--------|------|----------------|-----------|---|
| Analyte Name | Analysis Method | Result | Units | MRL | Dil. | Date Analyzed | Extracted | Q |
| Ammonia as Nitrogen, undistilled | ASTM D6919-09 | 0.588 | mg/L | 0.0050 | 1 | 07/11/18 00:32 | NA | |
| Carbon, Total Organic (TOC) | SM 5310 C-2000(2011) | 3.6 | mg/L | 1.0 | 1 | 07/11/18 21:02 | NA | |
| Color, True | SM 2120 B-2001(2011) | 33.0 | ColorUnits | 1.0 | 1 | 06/29/18 12:55 | NA | |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.0022 | mg/L | 0.0020 | 1 | 07/11/18 13:00 | NA | |
| Nitrogen, Total Kjeldahl (TKN) | 351.2 | 0.99 | mg/L | 0.10 | 1 | 07/06/18 13:26 | 07/05/18 | |
| pH of Color Analysis | SM 2120 B-2001(2011) | 7.53 | pH Units | - | 1 | 06/30/18 08:30 | NA | * |
| Phosphorus, Total | 365.1 | 0.0471 | mg/L | 0.0050 | 1 | 07/03/18 09:35 | 07/02/18 | |

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Lab Code:

Water

Service Request: R1806137

Date Collected: 06/27/18 13:26

Date Received: 06/29/18 08:35

Sample Name: 1

 $18LHB022\ Diss$

R1806137-006

Basis: NA

| Analysis |
|----------|
|----------|

| Analyte Name | Method | Result | Units | MRL | Dil. | Date Analyzed | Date Extracted | Q |
|-----------------------|--------|--------|-------|--------|------|----------------------|-----------------------|---|
| Phosphorus, Dissolved | 365.1 | 0.0383 | mg/L | 0.0050 | 1 | 07/03/18 09:26 | 07/02/18 | |

Analytical Report

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

: LCI 2018/LCI2018

Matrix: Water

Service Request: R1806137

Date Collected: 06/27/18 15:20

Date Received: 06/29/18 08:35

Sample Name: 18LHB030 Basis: NA

Lab Code: R1806137-007

Sample Matrix:

| | | | | | | | Date | |
|----------------------------------|----------------------|--------|------------|--------|------|----------------|-----------|---|
| Analyte Name | Analysis Method | Result | Units | MRL | Dil. | Date Analyzed | Extracted | Q |
| Ammonia as Nitrogen, undistilled | ASTM D6919-09 | 1.64 | mg/L | 0.0050 | 1 | 07/11/18 00:48 | NA | |
| Carbon, Total Organic (TOC) | SM 5310 C-2000(2011) | 6.3 | mg/L | 1.0 | 1 | 07/11/18 21:22 | NA | |
| Color, True | SM 2120 B-2001(2011) | 49.0 | ColorUnits | 1.0 | 1 | 06/29/18 12:55 | NA | |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.0146 | mg/L | 0.0020 | 1 | 07/11/18 13:01 | NA | |
| Nitrogen, Total Kjeldahl (TKN) | 351.2 | 2.48 | mg/L | 0.10 | 1 | 07/06/18 13:26 | 07/05/18 | |
| pH of Color Analysis | SM 2120 B-2001(2011) | 7.66 | pH Units | - | 1 | 06/30/18 08:30 | NA | * |
| Phosphorus, Total | 365.1 | 0.0472 | mg/L | 0.0050 | 1 | 07/03/18 09:36 | 07/02/18 | |

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1806137

Date Collected: 06/27/18 15:20

Date Received: 06/29/18 08:35

Sample Name: 18LHB030 Diss Basis: NA

Lab Code: R1806137-008

| | Analysis | | | | | | | |
|-----------------------|----------|--------|-------|--------|------|----------------|----------------|---|
| Analyte Name | Method | Result | Units | MRL | Dil. | Date Analyzed | Date Extracted | Q |
| Phosphorus, Dissolved | 365.1 | 0.0140 | mg/L | 0.0050 | 1 | 07/03/18 09:27 | 07/02/18 | |



QC Summary Forms



General Chemistry

Analytical Report

Client: New York State DEC Service Request: R1806137

Project: LCI 2018/LCI2018

Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

Lab Code: R1806137-MB

| | | | | | | Date | |
|----------------------|--|--|--|---|---|---|---|
| Analysis Method | Result | Units | MRL | Dil. | Date Analyzed | Extracted | Q |
| SM 2320 B-1997(2011) | 2.0 U | mg/L | 2.0 | 1 | 07/09/18 22:06 | NA | |
| ASTM D6919-09 | 0.0050 U | mg/L | 0.0050 | 1 | 07/10/18 23:28 | NA | |
| SM 5310 C-2000(2011) | 1.0 U | mg/L | 1.0 | 1 | 07/11/18 16:29 | NA | |
| SM20 10200 H | 0.16 U | ug/L | 0.16 | 1 | 07/17/18 09:30 | NA | |
| SM 2120 B-2001(2011) | 1.0 | ColorUnits | 1.0 | 1 | 06/29/18 12:55 | NA | |
| 353.2 | 0.0020 U | mg/L | 0.0020 | 1 | 07/11/18 12:42 | NA | |
| 351.2 | 0.10 U | mg/L | 0.10 | 1 | 07/06/18 12:20 | 07/05/18 | |
| 365.1 | 0.0050 U | mg/L | 0.0050 | 1 | 07/03/18 09:03 | 07/02/18 | |
| 365.1 | 0.0050 U | mg/L | 0.0050 | 1 | 07/03/18 09:03 | 07/02/18 | |
| | SM 2320 B-1997(2011) ASTM D6919-09 SM 5310 C-2000(2011) SM20 10200 H SM 2120 B-2001(2011) 353.2 351.2 365.1 | SM 2320 B-1997(2011) 2.0 U ASTM D6919-09 0.0050 U SM 5310 C-2000(2011) 1.0 U SM20 10200 H 0.16 U SM 2120 B-2001(2011) 1.0 353.2 0.0020 U 351.2 0.10 U 365.1 0.0050 U | SM 2320 B-1997(2011) 2.0 U mg/L ASTM D6919-09 0.0050 U mg/L SM 5310 C-2000(2011) 1.0 U mg/L SM20 10200 H 0.16 U ug/L SM 2120 B-2001(2011) 1.0 ColorUnits 353.2 0.0020 U mg/L 351.2 0.10 U mg/L 365.1 0.0050 U mg/L | SM 2320 B-1997(2011) 2.0 U mg/L 2.0 ASTM D6919-09 0.0050 U mg/L 0.0050 SM 5310 C-2000(2011) 1.0 U mg/L 1.0 SM20 10200 H 0.16 U ug/L 0.16 SM 2120 B-2001(2011) 1.0 ColorUnits 1.0 353.2 0.0020 U mg/L 0.0020 351.2 0.10 U mg/L 0.10 365.1 0.0050 U mg/L 0.0050 | SM 2320 B-1997(2011) 2.0 U mg/L 2.0 1 ASTM D6919-09 0.0050 U mg/L 0.0050 I SM 5310 C-2000(2011) 1.0 U mg/L 1.0 I SM20 10200 H 0.16 U ug/L 0.16 I SM 2120 B-2001(2011) 1.0 ColorUnits 1.0 I 353.2 0.0020 U mg/L 0.0020 I 351.2 0.10 U mg/L 0.10 I 365.1 0.0050 U mg/L 0.0050 I | SM 2320 B-1997(2011) 2.0 U mg/L 2.0 U 07/09/18 22:06 ASTM D6919-09 0.0050 U mg/L 0.0050 I 07/10/18 23:28 SM 5310 C-2000(2011) 1.0 U mg/L 1.0 I 07/11/18 16:29 SM20 10200 H 0.16 U ug/L 0.16 I 07/17/18 09:30 SM 2120 B-2001(2011) 1.0 ColorUnits 1.0 I 06/29/18 12:55 353.2 0.0020 U mg/L 0.0020 I 07/11/18 12:42 351.2 0.10 U mg/L 0.10 I 07/06/18 12:20 365.1 0.0050 U mg/L 0.0050 1 07/03/18 09:03 | SM 2320 B-1997(2011) 2.0 U mg/L 2.0 I 07/09/18 22:06 NA ASTM D6919-09 0.0050 U mg/L 0.0050 I 07/10/18 23:28 NA SM 5310 C-2000(2011) 1.0 U mg/L 1.0 I 07/11/18 16:29 NA SM20 10200 H 0.16 U ug/L 0.16 I 07/17/18 09:30 NA SM 2120 B-2001(2011) 1.0 ColorUnits 1.0 I 06/29/18 12:55 NA 353.2 0.0020 U mg/L 0.0020 I 07/11/18 12:42 NA 351.2 0.10 U mg/L 0.10 I 07/06/18 12:20 07/05/18 365.1 0.0050 U mg/L 0.0050 I 07/03/18 09:03 07/02/18 |

QA/QC Report

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

Sample Matrix: Water

Service Request:R1806137

Date Collected:06/27/18 **Date Received:**06/29/18

Date Analyzed:07/06/18 - 07/11/18

Duplicate Matrix Spike Summary General Chemistry Parameters

 Sample Name:
 18LHB030
 Units:mg/L

 Lab Code:
 R1806137-007
 Basis:NA

Matrix Spike

Duplicate Matrix Spike

R1806137-007MS

R1806137-007DMS

| | | Sample | | Spike | | | Spike | | % Rec | | RPD |
|--------------------------------|--------|--------|--------|--------|-------|--------|--------|-------|--------|-----|-------|
| Analyte Name | Method | Result | Result | Amount | % Rec | Result | Amount | % Rec | Limits | RPD | Limit |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.0146 | 0.434 | 0.500 | 84 | 0.434 | 0.500 | 84 | 75-125 | <1 | 20 |
| Nitrogen, Total Kjeldahl (TKN) | 351.2 | 2.48 | 4.94 | 2.50 | 98 | 4.98 | 2.50 | 100 | 75-125 | <1 | 20 |

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

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

QA/QC Report

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

LCI 2018/LCI2018

Water

Service Request:

R1806137

Date Collected: Date Received: 06/27/18 06/29/18

Date Analyzed: Date Extracted: 07/3/18 07/2/18

Duplicate Matrix Spike Summary Phosphorus, Dissolved

Sample Name:

18LHB030 Diss R1806137-008

Units: Basis:

mg/L NA

Lab Code: **Analysis Method: Prep Method:**

Sample Matrix:

365.1 Method

Matrix Spike

Duplicate Matrix Spike

R1806137-008DMS

R1806137-008MS

| | Sample | | Spike | | | Spike | | % Rec | | RPD |
|-----------------------|--------|--------|--------|-------|--------|--------|-------|--------|-----|-------|
| Analyte Name | Result | Result | Amount | % Rec | Result | Amount | % Rec | Limits | RPD | Limit |
| Phosphorus, Dissolved | 0.0140 | 0.0373 | 0.0250 | 93 | 0.0374 | 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.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC
Project LCI 2018/LCI2018

Sample Matrix:

New York State DEC

Service Request: R1806137

LCI 2018/LCI2018 **Date Collected:** 06/27/18

Water **Date Received:** 06/29/18

Date Analyzed: 06/29/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LHB029 Units: ColorUnits

Lab Code: R1806137-001 **Basis:** NA

Duplicate Sample R1806137-

Sample 001DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitColor, TrueSM 2120 B-2001(2011)1.032.032.032.0<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.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC **Project**

Water

LCI 2018/LCI2018

Service Request: R1806137 **Date Collected:** 06/27/18

Date Received: 06/29/18

Date Analyzed: 06/30/18

Replicate Sample Summary General Chemistry Parameters

Sample Name:

Sample Matrix:

18LHB029

Units: pH Units

Lab Code:

R1806137-001

Basis: NA

Duplicate

Sample

R1806137-

Sample **001DUP**

Analyte Name

Analysis Method

MRL

Result

Result

Average

RPD

RPD Limit

pH of Color Analysis

SM 2120 B-2001(2011)

8.05

8.05

8.05

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: R1806137

Date Analyzed: 07/03/18 - 07/11/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R1806137-LCS

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|----------------------------------|--------------------------|--------|--------------|-------|--------------|
| Alkalinity, Total as CaCO3 | SM 2320 B-1997(2011) | 19.2 | 20.0 | 96 | 70-130 |
| Ammonia as Nitrogen, undistilled | ASTM D6919-09 | 0.513 | 0.500 | 103 | 70-130 |
| Carbon, Total Organic (TOC) | SM 5310 C-2000(2011) | 9.7 | 10.0 | 97 | 70-130 |
| Nitrate+Nitrite as Nitrogen | 353.2 | 0.510 | 0.500 | 102 | 70-130 |
| Nitrogen, Total Kjeldahl (TKN) | 351.2 | 2.36 | 2.50 | 94 | 70-130 |
| Phosphorus, Dissolved | 365.1 | 0.0232 | 0.0250 | 93 | 70-130 |
| Phosphorus, Total | 365.1 | 0.0232 | 0.0250 | 93 | 70-130 |