The names and locations of the six monitoring locations, two SPDES outfalls, and a concentrated animal feeding operation (CAFO) on the Deer River - 09/03-04/2024

Classification	Location Type	Site	Rivermile	Coordinates	Site Description
910-222.1	Sampling Site	09-DERR-22.4	22.4	44.776771, -74.648478	Above US Route 11 bridge. ~4.3 river miles above NCD outfall
C (910-222.1)	CAFO	NYA00E301	19.4	44.79191, -74.66802	Deer River water quality from Stauffer Farms LLC (SPDES ID: NYA00E301), Concentrated Animal Feeding Operation (CAFO)
910-222.1	Sampling Site	09-DERR-18.2	18.2	44.804247, -74.676604	250 meters above County Route 52 bridge. Directly above NCD outfall
C (910-222.1)	Outfall	NY0002763	18.1	44.80457, -74.67673	North Country Dairy outfall (SPDES ID: NY0002763)
910-222	Sampling Site	09-DERR-17.6	17.6	44.808486, -74.676171	Directly above WWTP outfall and ~0.6 river miles below NCD outfall
B (910-222)	Outfall	NY0110116	17.5	44.80835, -74.67663	North Lawrence and Nicholville Sewage Treatment Plant (SPDES ID: NY0110116)
910-222	Sampling Site	09-DERR-17.4	17.4	44.809573, -74.674838	Below NLN WWTP Outfall and above minor trib with potential NCD influence
910-222	Sampling Site	09-DERR-16.9	16.9	44.816161, -74.672913	Below minor trib with potential NCD influence
910-222	Sampling Site	09-DERR-15.5	15.5	44.820049, -74.681625	At County Route 55 (~2.6 river miles downstream facility and WWTP outfalls)

September 30, 2024 Service Request No:R2408478

Zachary Smith
New York State DEC
Division of Water, 4th Floor
625 Broadway
Albany, NY 12233-3502

Laboratory Results for: Deer River

Dear Zachary,

Enclosed are the results of the sample(s) submitted to our laboratory September 04, 2024
For your reference, these analyses have been assigned our service request number **R2408478.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: RIBS Reporting

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
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ALS Environmental

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River	**Date Received:**	09/04/2024
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 for the Tier level IV requested by the client.

Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an "m" next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of "manipulated" or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or "M" by the result in the "Type" column (anions). The reason for the manual integration is noted on the "after" chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT "Manual Integration."

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 09/04/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by ____________________ Date 09/30/2024

Sample Receipt Information

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2408478-001	24S0424	9/3/2024	1230
R2408478-002	24S0424 Diss	9/3/2024	1230
R2408478-003	24S0423	9/3/2024	1300
R2408478-004	24S0423 Diss	9/3/2024	1300
R2408478-005	24S0545	9/3/2024	1330
R2408478-006	24S0545 Diss	9/3/2024	1330
R2408478-007	24S0560	9/3/2024	1400
R2408478-008	24S0560 Diss	9/3/2024	1400

CHAIN OF CUSTODY – ALS Rochester

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Division of Water

(This COC for use with ALS Rochester only)

Project Name: DEER River	Case Code: RSC24	NYSDEC SDG: 090224CO2W ([Monday's MMDDYY][team code][matrix code])
Contract No.: C012457	Sampler Collector: Charles Stoll	Sampler Phone No.: 603.757.3060
Project Coordinator: Charles Stoll	Report to Project Manager: Jason Fagel	Bill to Project Manager: Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	Address: 625 Broadway, 4th Floor Albany, NY 12233-3502
Phone: 518-402-8205	Phone: 518-402-8156	Phone: 518-402-8156
Email: Charles.Stoll@dec.ny.gov	Email: StreamData@dec.ny.gov	Email: jason.fagel@dec.ny.gov

Matrix Codes:
- WW = Wastewater
- GW = Groundwater
- W = Ambient Water
- SE = Sediment
- SL = Sludge
- T = Tissue
- O = Other __DI WATER____

Preservative Codes:
(Please include in ( ) on "Analyses Ordered" line):
- 1 = Cool to < 6°C
- 2 = 0.008% $Na_2S_2O_3$
- 3 = H_2SO_4 to pH < 2
- 4 = HNO_3 to pH < 2
- 5 = NaOH to pH > 12
- 6 = 5 mL/L 12N HCl
- 7 = 5 mL/L BrCl
- 8 = HCl to pH < 2
- 9 = H_3PO_4 to pH < 2
- 10 = Protect from light
- 11 = Freeze to < -10°C
- 12 = Other ________

SITE ID ([2-dig. basin]-[stream identifier]-[rivermile]) e.g., "06-DILA-5.4"	Bottle ID ([2-dig. Year][waterbody type][assigned bottle set no.]) e.g., "24S0001"	Collection Date (MM/DD/YY)	Collection Time (HH:MM)	Matrix Code	Equip. Blank (EB)	Hg Field Blank (FB)	Sequential Duplicate (SEQ)	MS/MSD	# Containers	Analyses Ordered (list): RIBS Screening				Location Info/ NYSDEC Notes
09-DERR-15.5	24S0424	9/03/2024	1230						6	X				
09-DERR-16.9	24S0423	9/03/2024	1300						6	X				
09-DERR-22.4	24S0545	9/03/2024	1330						6	X				
09-DERR-18.0	24S0560	9/3/2024	1400											

SRBC: T OPO4; D OPO4
LCI A Epi/Hypo: 353 NO2, Color, UV254
LCI B Epi/Hypo: 353 NO2, Color
RIBS Routine: 353 NO2, Turbidity, CHLA, OPO4
RIBS Screening: 353 NO2, Turbidity

Special Analysis Instructions:

Laboratory Reporting Instructions:

"sample_name" to be reported as: **"Bottle ID-collection date (MMDDYYYY)-Matrix Code-[Quality Control Code if noted (EB/FB/SEQ)]"** (dashes included)

EXAMPLES: "24S0001-10102018-W" (normal field sample)
"24S0002-10102018-W-EB" (equipment blank sample)
"24S0003-10102018-W-SEQ" (sequential duplicate sample)

Relinquished by Sampler:	Date:	Time:	Received by:	Date:	Time:	Laboratory Receipt Notes:
Charles Stoll	9/3/24	1500		9/4/24	10:55	Sample Temp.: °C
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Properly Pr
						Samples In

R2408478 5
New York State DEC
RBC24 RIBS Screening

R2408478 5
New York State DEC
RSC24 RIBS Screening

Cooler Receipt and Preservation Check Form

Project/Client NYSDEC Folder Number

Cooler received on 9/4/24 by: [illegible] COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y N	5a	Did VOA vials have sig* bubbles?	Y N NA
2	Custody papers properly completed (ink, signed)?	Y N	5b	Sig* bubbles: Alk? Y N NA	Sulfide? Y N NA
3	Did all bottles arrive in good condition (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: Wet Ice Dry Ice Gel packs present?	Y N	7	Soil VOA received as: Bulk Encore 5035set	NA

8. Temperature Readings Date: 9/4/24 Time: 1140 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	2.2	1.7					
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: SMO by [illegible] on 9/4/24 at 11:52
5035 samples placed in storage location: ____ by ____ on ____ at ____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date : 9/4/24 Time: 1402 by: SES.

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

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	221523	HNO_3	✓		24005587	9/25				
≤2	↓	H_2SO_4	✓		3122061	2/26				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 042224-2ERG, 051324-2ERD, 051324-3DQL

Explain all Discrepancies/ Other Comments:

H_2SO_4 for TOC: 22520047 exp. 1/26

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r21.doc 05/17/2024

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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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 "Notes" 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 "immediate" 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 Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24		

Sample Name:	24S0424	**Date Collected:**	09/3/24
Lab Code:	R2408478-001	**Date Received:**	09/4/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
180.1		SBIRNBERG
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		KAWONG
350.1		MROGERSON
351.2	SZOGBY	MROGERSON
353.2		MROGERSON
353.2		SDUBE
365.1	SDUBE	GNITAJOUPPI
SM 2320 B-1997(2011)		KAWONG

Sample Name:	24S0424 Diss	**Date Collected:**	09/3/24
Lab Code:	R2408478-002	**Date Received:**	09/4/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B-2014		KWONG

Sample Name:	24S0423	**Date Collected:**	09/3/24
Lab Code:	R2408478-003	**Date Received:**	09/4/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
180.1		SBIRNBERG
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		KAWONG
350.1		MROGERSON
351.2	SZOGBY	MROGERSON
353.2		MROGERSON
353.2		SDUBE
365.1	SDUBE	GNITAJOUPPI

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: New York State Dept of Environmental Conservation (DEC) **Service Request:** R2408478
Project: Deer River/RSC24

Sample Name: 24S0423 **Date Collected:** 09/3/24
Lab Code: R2408478-003 **Date Received:** 09/4/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		KAWONG

Sample Name: 24S0423 Diss **Date Collected:** 09/3/24
Lab Code: R2408478-004 **Date Received:** 09/4/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B-2014		KWONG

Sample Name: 24S0545 **Date Collected:** 09/3/24
Lab Code: R2408478-005 **Date Received:** 09/4/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
180.1		SBIRNBERG
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		KAWONG
350.1		MROGERSON
351.2	SZOGBY	MROGERSON
353.2		SDUBE
353.2		MROGERSON
365.1	SDUBE	GNITAJOUPPI
SM 2320 B-1997(2011)		KAWONG

Sample Name: 24S0545 Diss **Date Collected:** 09/3/24
Lab Code: R2408478-006 **Date Received:** 09/4/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B-2014		KWONG

Analyst Summary report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24		

Sample Name:	24S0560	**Date Collected:**	09/3/24
Lab Code:	R2408478-007	**Date Received:**	09/4/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
180.1		SBIRNBERG
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		KAWONG
350.1		MROGERSON
351.2	SZOGBY	MROGERSON
353.2		SDUBE
353.2		MROGERSON
365.1	SDUBE	GNITAJOUPPI
SM 2320 B-1997(2011)		KAWONG

Sample Name:	24S0560 Diss	**Date Collected:**	09/3/24
Lab Code:	R2408478-008	**Date Received:**	09/4/24
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B-2014		KWONG

PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

ALS Environmental—Rochester Laboratory
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Metals

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right solutions.
right partner.

Form 1

Inorganic Analysis Data Sheet

Metals by EPA 200.8,Metals by EPA 200.7

Workorder

R2408478

Client

New York State DEC

Project

Deer River

09/30/2024

ALS Environmental–Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Form 1 - Inorganic Analysis Data Sheet

Client	New York State DEC		Workorder
Project	Deer River		**R2408478**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0424	Collected	Received	Matrix	Prep Method
R2408478-001	09/03/24 1230	09/04/24 1055	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	113		ug/L	8	10	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
P	Calcium, Total	10400		ug/L	200	1000	1	09/16/24 20:45	R-ICP-AES-		444889
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
P	Iron, Total	990		ug/L	20	100	1	09/16/24 20:45	R-ICP-AES-		444889
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
P	Magnesium, Total	3300		ug/L	70	1000	1	09/16/24 20:45	R-ICP-AES-		444889
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892
MS	Zinc, Total	4.6	J	ug/L	2.5	5.0	1	09/16/24 17:06	R-ICP-MS-	091624-	444892

MC - Method Class   CV - Cold Vapor/AA   P - ICP/AES   MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client New York State DEC

Project Deer River

Workorder **R2408478**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0423	Collected	Received	Matrix	Prep Method
R2408478-003	09/03/24 1300	09/04/24 1055	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	116		ug/L	8	10	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
P	Calcium, Total	9900		ug/L	200	1000	1	09/16/24 21:00	R-ICP-AES-		444889
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
P	Iron, Total	940		ug/L	20	100	1	09/16/24 21:00	R-ICP-AES-		444889
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
P	Magnesium, Total	3100		ug/L	70	1000	1	09/16/24 21:00	R-ICP-AES-		444889
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892
MS	Zinc, Total	3.3	J	ug/L	2.5	5.0	1	09/16/24 17:08	R-ICP-MS-	091624-	444892

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	New York State DEC	Workorder
Project	Deer River	**R2408478**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0545	Collected	Received	Matrix	Prep Method
R2408478-005	09/03/24 1330	09/04/24 1055	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	122		ug/L	8	10	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
P	Calcium, Total	7900		ug/L	200	1000	1	09/16/24 21:09	R-ICP-AES-		444889
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
P	Iron, Total	980		ug/L	20	100	1	09/16/24 21:09	R-ICP-AES-		444889
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
P	Magnesium, Total	2400		ug/L	70	1000	1	09/16/24 21:09	R-ICP-AES-		444889
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892
MS	Zinc, Total	3.5	J	ug/L	2.5	5.0	1	09/16/24 17:18	R-ICP-MS-	091624-	444892

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	New York State DEC	Workorder
Project	Deer River	**R2408478**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0560	Collected	Received	Matrix	Prep Method
R2408478-007	09/03/24 1400	09/04/24 1055	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	119		ug/L	8	10	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
P	Calcium, Total	9600		ug/L	200	1000	1	09/16/24 21:12	R-ICP-AES-		444889
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
P	Iron, Total	960		ug/L	20	100	1	09/16/24 21:12	R-ICP-AES-		444889
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
P	Magnesium, Total	3000		ug/L	70	1000	1	09/16/24 21:12	R-ICP-AES-		444889
MS	Nickel, Total	0.6	J	ug/L	0.5	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892
MS	Zinc, Total	4.7	J	ug/L	2.5	5.0	1	09/16/24 17:20	R-ICP-MS-	091624-	444892

MC - Method Class   CV - Cold Vapor/AA   P - ICP/AES   MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client New York State DEC
Project Deer River

Workorder
R2408478

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

Method Blank	Matrix	Prep Method
R2408478-MB	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	10	U	ug/L	8	10	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Lead, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892
MS	Zinc, Total	5.0	U	ug/L	2.5	5.0	1	09/16/24 17:02	R-ICP-MS-	091624-	444892

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
P	Calcium, Total	1000	U	ug/L	200	1000	1	09/16/24 20:33	R-ICP-AES-		444889
P	Iron, Total	100	U	ug/L	20	100	1	09/16/24 20:33	R-ICP-AES-		444889
P	Magnesium, Total	1000	U	ug/L	70	1000	1	09/16/24 20:33	R-ICP-AES-		444889

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 12:30
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0424	**Basis:**	NA
Lab Code:	R2408478-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**35.0**	mg/L	2.0	1	09/11/24 14:12	NA	
Ammonia as Nitrogen	350.1	**0.337**	mg/L	0.010	1	09/16/24 20:39	NA	
Chloride	300.0	**7.5**	mg/L	2.0	10	09/16/24 18:46	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**39.6**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.141**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.195**	mg/L	0.0020	1	09/20/24 00:45	NA	
Nitrite as Nitrogen	353.2	**0.054**	mg/L	0.010	1	09/04/24 17:09	NA	
Nitrogen, Total as Nitrogen	Calculation	**1.06**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.86**	mg/L	0.10	1	09/27/24 01:13	09/25/24	
Phosphorus, Total	365.1	**0.285**	mg/L	0.0050	1	09/23/24 14:51	09/20/24	
Turbidity	180.1	**2.8**	NTU	1.0	1	09/05/24 09:40	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 12:30
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0424 Diss	**Basis:**	NA
Lab Code:	R2408478-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**13.0**	mg/L	1.0	1	09/20/24 14:18	

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 13:00
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0423	**Basis:**	NA
Lab Code:	R2408478-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**34.4**	mg/L	2.0	1	09/11/24 14:19	NA	
Ammonia as Nitrogen	350.1	**0.401**	mg/L	0.010	1	09/16/24 20:44	NA	
Chloride	300.0	**7.4**	mg/L	2.0	10	09/16/24 18:53	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**37.7**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.116**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.165**	mg/L	0.0020	1	09/20/24 00:52	NA	
Nitrite as Nitrogen	353.2	**0.048**	mg/L	0.010	1	09/04/24 17:09	NA	
Nitrogen, Total as Nitrogen	Calculation	**1.08**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.92**	mg/L	0.10	1	09/27/24 01:14	09/25/24	
Phosphorus, Total	365.1	**0.313**	mg/L	0.050	10	09/23/24 16:10	09/20/24	
Turbidity	180.1	**2.5**	NTU	1.0	1	09/05/24 09:40	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 13:00
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0423 Diss	**Basis:**	NA
Lab Code:	R2408478-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**12.4**	mg/L	1.0	1	09/20/24 14:35	

Client:	New York State Dept of Environmental Conservation (DEC)		**Service Request:**	R2408478
Project:	Deer River/RSC24		**Date Collected:**	09/03/24 13:30
Sample Matrix:	Water		**Date Received:**	09/04/24 10:55
Sample Name:	24S0545		**Basis:**	NA
Lab Code:	R2408478-005			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**23.5**	mg/L	2.0	1	09/11/24 14:27	NA	
Ammonia as Nitrogen	350.1	0.010 U	mg/L	0.010	1	09/16/24 20:45	NA	
Chloride	300.0	**6.0**	mg/L	2.0	10	09/16/24 18:59	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**29.5**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.080**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0800**	mg/L	0.0020	1	09/20/24 00:53	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	09/04/24 17:10	NA	
Nitrogen, Total as Nitrogen	Calculation	**0.56**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.48**	mg/L	0.10	1	09/27/24 01:15	09/25/24	
Phosphorus, Total	365.1	**0.0133**	mg/L	0.0050	1	09/23/24 15:01	09/20/24	
Turbidity	180.1	**1.7**	NTU	1.0	1	09/05/24 09:40	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 13:30
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0545 Diss	**Basis:**	NA
Lab Code:	R2408478-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**12.3**	mg/L	1.0	1	09/20/24 14:52	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 14:00
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0560	**Basis:**	NA
Lab Code:	R2408478-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**28.6**	mg/L	2.0	1	09/11/24 14:34	NA	
Ammonia as Nitrogen	350.1	**0.105**	mg/L	0.010	1	09/16/24 20:47	NA	
Chloride	300.0	**6.7**	mg/L	2.0	10	09/16/24 19:18	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**36.1**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.094**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0941**	mg/L	0.0020	1	09/20/24 00:54	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	09/04/24 17:10	NA	
Nitrogen, Total as Nitrogen	Calculation	**0.61**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.52**	mg/L	0.10	1	09/27/24 01:16	09/25/24	
Phosphorus, Total	365.1	**0.0159**	mg/L	0.0050	1	09/23/24 15:02	09/20/24	
Turbidity	180.1	**2.0**	NTU	1.0	1	09/05/24 09:40	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24 14:00
Sample Matrix:	Water	**Date Received:**	09/04/24 10:55
Sample Name:	24S0560 Diss	**Basis:**	NA
Lab Code:	R2408478-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**12.2**	mg/L	1.0	1	09/20/24 15:09	

QC Summary Forms

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Metals

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Form 3

Blanks

Metals by EPA 200.7,Metals by EPA 200.8

Workorder

R2408478

Client

New York State DEC

Project

Deer River

09/30/2024

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Form 3 - Blanks

Client	New York State DEC		Workorder
Project	Deer River		**R2408478**

Metals by EPA 200.7 (P)

R-ICP-AES-07_854317			ICB		CCB		CCB		CCB		CCB		
		Run Date	09/16/24		09/16/24		09/16/24		09/16/24		09/16/24		
		Run Time	16:24		20:29		21:06		21:43		22:17		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Calcium	200	1000	200	U	200	U	200	U	200	U	200	U	
Iron	20	100	20	U	20	U	20	U	20	U	20	U	
Magnesium	70	1000	70	U	70	U	70	U	70	U	70	U	

Q - Result Flag * - Result Outside Limits

Form 3 - Blanks

Client	New York State DEC	Workorder
Project	Deer River	**R2408478**

Metals by EPA 200.8 (MS)

R-ICP-MS-02_854287			**ICB**		**CCB**		**CCB**		**CCB**		**CCB**		
		Run Date	09/16/24		09/16/24		09/16/24		09/16/24		09/16/24		
		Run Time	13:20		17:00		17:23		17:46		18:09		
		Units	ug/L		ug/L		ug/L		ug/L		ug/L		
		Data File	010_ICB		126_CCB		138_CCB		150_CCB		162_CCB		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Aluminum	8	10	8	U	8	U	8	U	8	U	8	U	
Arsenic	0.4	1.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	
Cadmium	0.2	1.0	0.2	U	0.2	U	0.2	U	0.2	U			
Copper	0.7	1.0	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	
Lead	0.2	1.0	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	
Nickel	0.5	1.0	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	
Silver	0.4	1.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	
Zinc	2.5	5.0	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	

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Form 5A

Matrix Spike Sample Recovery

Metals by EPA 200.7,Metals by EPA 200.8

Workorder

R2408478

Client

New York State DEC

Project

Deer River

09/30/2024

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Form 5A - Matrix Spike Sample Recovery

Client	New York State DEC		Workorder
Project	Deer River		**R2408478**

Metals by EPA 200.7 (P)

RunID
R-ICP-AES-07-854317

24S0424 (R2408478-001)						**R2408478-001MS**					**R2408478-001DMS**						
Sample Matrix Water		**Analysis Batch** 854317				**Run Date** 09/16/24					**Run Date** 09/16/24						
Result Units ug/L		**Prep Batch** 444889				**Run Time** 20:48					**Run Time** 20:51						
Prep Method EPA 200.2		**Prep Date** 09/16/2024				**Prep Amt** 10 mL					**Prep Amt** 10 mL						
Analyte	%R Limits	DF	Sample Result			MS Result	Spike Added	%R	Q		MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Calcium, Total	70-130	1	10400			12000	2000	NC			12000	2000	**NC**		20	**0.1**	
Iron, Total	70-130	1	990			1980	1000	**99**			1990	1000	**100**		20	**0.5**	
Magnesium, Total	70-130	1	3300			5100	2000	**92**			5100	2000	**92**		20	**0.1**	

Form 5A - Matrix Spike Sample Recovery

Client New York State DEC
Project Deer River

Workorder
R2408478

Metals by EPA 200.8 (MS)

RunID
R-ICP-MS-02-854287

24S0423 (R2408478-003)					R2408478-003MS				R2408478-003DMS						
Sample Matrix Water **Result Units** ug/L **Prep Method** EPA 200.2	**Analysis Batch** 854287 **Prep Batch** 444892 **Prep Date** 09/16/2024				**Run Date** 09/16/24 **Run Time** 17:10 **Prep Amt** 10 mL				**Run Date** 09/16/24 **Run Time** 17:12 **Prep Amt** 10 mL						
Analyte	%R Limits	DF	Sample Result		MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Aluminum, Total	70-130	1	116		153	40	**93**		154	40	**95**		20	**0.4**	
Arsenic, Total	70-130	1	1.0	U	20.6	20.0	**103**		20.2	20.0	**101**		20	**2**	
Cadmium, Total	70-130	1	1.0	U	19.7	20.0	**99**		19.0	20.0	**95**		20	**4**	
Copper, Total	70-130	1	1.0	U	21.3	20.0	**106**		20.8	20.0	**104**		20	**2**	
Lead, Total	70-130	1	0.3	J	20.6	20.0	**102**		20.4	20.0	**101**		20	**0.9**	
Nickel, Total	70-130	1	1.0	U	21.3	20.0	**106**		20.8	20.0	**104**		20	**2**	
Silver, Total	70-130	1	1.0	U	20.1	20.0	**100**		19.6	20.0	**98**		20	**2**	
Zinc, Total	70-130	1	3.3	J	23.5	20.0	**101**		23.7	20.0	**102**		20	**1**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor
MS\D Matrix Spike \Duplicate **OOL** Out of Limits ***** %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

Form 7

Laboratory Control Sample

Metals by EPA 200.8,Metals by EPA 200.7

Workorder

R2408478

Client

New York State DEC

Project

Deer River

09/30/2024

ALS Environmental–Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Form 7 - Laboratory Control Sample

Client	New York State DEC	Workorder	
Project	Deer River		**R2408478**

Metals by EPA 200.7 (P)

RunID
R-ICP-AES-07-854317

R-ICP-AES-07_854317			**R2408478-LCS**			
Spike Matrix Water	**Analysis Batch** ug/L		**Run Date** 09/16/24			
Result Units 09/16/24	**Prep Batch** 854317		**Run Time** 20:36			
Prep Method EPA 200.2	**Prep Date** 444889		**Prep Amt** 10 mL			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Calcium	85-115	2000	2170	**108**		
Iron	85-115	1000	1070	**107**		
Magnesium	85-115	2000	2080	**104**		

Form 7 - Laboratory Control Sample

Client	New York State DEC		Workorder
Project	Deer River		**R2408478**

Metals by EPA 200.8 (MS)

RunID
R-ICP-MS-02-854287

R-ICP-MS-02_854287			**R2408478-LCS**			
Spike Matrix Water **Result Units** 09/16/24 **Prep Method** EPA 200.2	**Analysis Batch** ug/L **Prep Batch** 854287 **Prep Date** 444892		**Run Date** 09/16/24 **Run Time** 17:04 **Prep Amt** 10 mL			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Aluminum	85-115	40	43.6	**109**		
Arsenic	85-115	20.0	19.9	**100**		
Cadmium	85-115	20.0	19.7	**99**		
Copper	85-115	20.0	21.0	**105**		
Lead	85-115	20.0	20.5	**103**		
Nickel	85-115	20.0	20.7	**103**		
Silver	85-115	20.0	20.5	**103**		
Zinc	85-115	20.0	21.1	**105**		

General Chemistry

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Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408478-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	09/11/24 11:06	NA	
Ammonia as Nitrogen	350.1	0.010	U	mg/L	0.010	1	09/16/24 20:30	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	1.0	U	mg/L	1.0	1	09/20/24 11:18	NA	
Chloride	300.0	0.20	U	mg/L	0.20	1	09/16/24 17:56	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/20/24 00:17	NA	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	09/04/24 17:05	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	09/27/24 01:21	09/25/24	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	09/23/24 14:20	09/20/24	
Turbidity	180.1	1.0	U	NTU	1.0	1	09/05/24 09:40	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408478-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/23/24 14:55	09/20/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24
Sample Matrix:	Water	**Date Received:**	09/04/24
		Date Analyzed:	09/16/24 - 09/20/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name:	24S0424	**Units:**	mg/L
Lab Code:	R2408478-001	**Basis:**	NA

			Matrix Spike R2408478-001MS			Duplicate Matrix Spike R2408478-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen	350.1	0.337	0.578	0.250	96	0.578	0.250	97	75-125	<1	20
Nitrate+Nitrite as Nitrogen	353.2	0.195	0.649	0.500	91	0.652	0.500	91	75-125	<1	20

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

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

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

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24
Sample Matrix:	Water	**Date Received:**	09/04/24
		Date Analyzed:	09/23/24
		Date Extracted:	09/20/24

Duplicate Matrix Spike Summary
Phosphorus, Total

Sample Name:	24S0423	**Units:**	mg/L
Lab Code:	R2408478-003	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike R2408478-003MS			Duplicate Matrix Spike R2408478-003DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Total	0.313	0.333	0.025	78 #	0.350	0.025	148 #	75-125	5	20

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Collected:**	09/03/24
Sample Matrix:	Water	**Date Received:**	09/04/24
		Date Analyzed:	09/20/24

Duplicate Matrix Spike Summary
Nitrate+Nitrite as Nitrogen

Sample Name:	24S0560	**Units:**	mg/L
Lab Code:	R2408478-007	**Basis:**	NA
Analysis Method:	353.2		

		Matrix Spike R2408478-007MS			Duplicate Matrix Spike R2408478-007DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate+Nitrite as Nitrogen	0.0941	0.541	0.500	89	0.540	0.500	89	75-125	<1	20

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408478
Project:	Deer River/RSC24	**Date Analyzed:**	09/04/24 - 09/27/24
Sample Matrix:	Water		

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
R2408478-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as $CaCO_3$	SM 2320 B-1997(2011)	26.1	25.0	104	70-130
Ammonia as Nitrogen	350.1	0.252	0.250	101	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	26.0	25.0	104	70-130
Chloride	300.0	2.00	2.00	100	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.527	0.500	105	70-130
Nitrite as Nitrogen	353.2	0.248	0.250	99	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.38	2.50	95	70-130
Phosphorus, Total	365.1	0.0198	0.0250	79	70-130

Client: New York State Dept of Environmental Conservation (DEC)
Service Request: R2408478
Project: Deer River/RSC24
Date Analyzed: 09/23/24
Sample Matrix: Water

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408478-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phosphorus, Total	365.1	0.0210	0.0250	84	70-130

October 01, 2024 Service Request No:R2408678

Zachary Smith
New York State DEC
Division of Water, 4th Floor
625 Broadway
Albany, NY 12233-3502

Laboratory Results for: DEER River

Dear Zachary,

Enclosed are the results of the sample(s) submitted to our laboratory September 06, 2024
For your reference, these analyses have been assigned our service request number **R2408678.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: RIBS Reporting

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dba ALS Environmental

Narrative Documents

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ALS Environmental

Client: New York State Dept of Environmental Conservation (DEC)
Service Request: R2408678
Project: DEER River
Date Received: 09/06/2024
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 for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 09/06/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Ammonia: 9/20/24 analysis. Due to a power outage, a file was corrupted. The raw data is intact except for the printout of the peaks.

Approved by ______________________ Date 09/30/2024

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2408678-001	24S0558	9/4/2024	0900
R2408678-002	24S0558 Diss	9/4/2024	0900
R2408678-003	24S0559	9/4/2024	0845
R2408678-004	24S0559 Diss	9/4/2024	0845

CHAIN OF CUSTODY – ALS Rochester

NEW YORK STATE OF OPPORTUNITY — Department of Environmental Conservation	Project Name: DEER River	Case Code: RSC24	NYSDEC SDG: 090224CO2W ([Monday's MMDDYY][team code][matrix code])
	Contract No.: C012457	Sampler Collector: Charles Stoll	Sampler Phone No.: 603.757.3060
Division of Water	Project Coordinator: Charles Stoll	Report to Project Manager: Jason Fagel	Bill to Project Manager: Jason Fagel
	Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	Address: 625 Broadway, 4th Floor Albany, NY 12233-3502
(This COC for use with ALS Rochester only)	Phone: 518-402-8205	Phone: 518-402-8156	Phone: 518-402-8156
	Email: Charles.Stoll@dec.ny.gov	Email: StreamData@dec.ny.gov	Email: jason.fagel@dec.ny.gov

Matrix Codes:
- WW = Wastewater
- GW = Groundwater
- W = Ambient Water
- SE = Sediment
- SL = Sludge
- T = Tissue
- O = Other __DI WATER____

Analyses Ordered (list)

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

- 1 = Cool to < 6°C
- 2 = 0.008% $Na_2S_2O_3$
- 3 = H_2SO_4 to pH < 2
- 4 = HNO_3 to pH < 2
- 5 = NaOH to pH > 12
- 6 = 5 mL/L 12N HCl
- 7 = 5 mL/L BrCl
- 8 = HCl to pH < 2
- 9 = H_3PO_4 to pH < 2
- 10 = Protect from light
- 11 = Freeze to < -10°C
- 12 = Other ______

SITE ID ([2-dig. basin]-[stream identifier]-[rivermile]) e.g., "06-DILA-5.4"	Bottle ID ([2-dig. Year][waterbody type][assigned bottle set no.]) e.g., "24S0001"			M	E	H	S	M	#					Location Info/ NYSDEC Notes
09-DERR-17.4	24S0558	9/04/2024	900						6	X				
09-DERR-17.6	24S0559	9/04/2024	845						6	X				
~~09-DERR-18.2~~	~~24S0560~~	~~9/04/2024~~							~~6~~	~~X~~				

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Special Analysis Instructions:

Laboratory Reporting Instructions:

"sample_name" to be reported as: "Bottle ID-collection date (MMDDYYYY)-Matrix Code-[Quality Control Code if noted (EB/FB/SEQ)]" (dashes included)

EXAMPLES: "24S0001-10102018-W" (normal field sample)
"24S0002-10102018-W-EB" (equipment blank sample)
"24S0003-10102018-W-SEQ" (sequential duplicate sample)

Relinquished by Sampler:	Date:	Time:	Received by:	Date:	Time:	Laboratory Receipt Notes:
Charles Stoll	9/4/24	1315	Dan Hoge ALS	9-4-24	1315	Sample Temp.: ____ °C
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Properly Pr...
Dan Hoge ALS	9-5-25	1725	[illegible]	~~9/4/24~~ 9/5/25	~~1315~~ 1725	Samples In...

R2408678 5
New York State DEC
DEER River

R2408678 5
New York State DEC
DEER River

Cooler Receipt and Preservation Check Form

Project/Client_______________ Folder Number_______________

Cooler received on 9/5/24 by: RDA COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

5a	Did VOA vials have sig* bubbles?	Y N NA
5b	Sig* bubbles: Alk? Y N NA Sulfide?	Y N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 9/5/24 Time: 1740 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	6.5	3.2	2.8	4.7	0.5	1.8	
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: R002 by RDA on 9/5/24 at 1800
5035 samples placed in storage location: ______ by ______ on ____ at ____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 9/6/24 Time: 1100 by: SES

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

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	281523	HNO_3	✓		bottle label →					
≤2	↓	H_2SO_4	✓		3122061	2/26				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: 040824-2ERG, 031124-2ERD, 042924-3DQL

Explain all Discrepancies/ Other Comments:

H_2SO_4 for DOC: 22520047 exp. 1/26

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

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

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r21.doc 05/17/2024

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

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

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 "Notes" 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 "immediate" 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 Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: New York State Dept of Environmental Conservation (DEC) **Service Request:** R2408678
Project: DEER River/RSC24

Sample Name: 24S0558 **Date Collected:** 09/4/24
Lab Code: R2408678-001 **Date Received:** 09/6/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
180.1		MROGERSON
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		CWOODS
350.1		MROGERSON
351.2	SZOGBY	MROGERSON
353.2		SDUBE
353.2		MROGERSON
365.1	SDUBE	GNITAJOUPPI
SM 2320 B-1997(2011)		ESORLIE

Sample Name: 24S0558 Diss **Date Collected:** 09/4/24
Lab Code: R2408678-002 **Date Received:** 09/6/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B-2014		KWONG

Sample Name: 24S0559 **Date Collected:** 09/4/24
Lab Code: R2408678-003 **Date Received:** 09/6/24
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
180.1		MROGERSON
200.7	ECASTROVINCI	NMANSEN
200.8	ECASTROVINCI	NMANSEN
300.0		CWOODS
350.1		MROGERSON
351.2	MROGERSON	MROGERSON
353.2		MROGERSON
353.2		SDUBE
365.1	SDUBE	GNITAJOUPPI

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Analyst Summary report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24		

Sample Name:	24S0559	**Date Collected:**	09/4/24
Lab Code:	R2408678-003	**Date Received:**	09/6/24
Sample Matrix:	Water		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
SM 2320 B-1997(2011)		ESORLIE

Sample Name:	24S0559 Diss	**Date Collected:**	09/4/24
Lab Code:	R2408678-004	**Date Received:**	09/6/24
Sample Matrix:	Water		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
SM 5310 B-2014		KWONG

PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":
For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.

Sample Results

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Form 1

Inorganic Analysis Data Sheet

Metals by EPA 200.8,Metals by EPA 200.7

Workorder

R2408678

Client

New York State DEC

Project

DEER River

09/30/2024

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Form 1 - Inorganic Analysis Data Sheet

Client	New York State DEC	Workorder
Project	DEER River	**R2408678**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0558	Collected	Received	Matrix	Prep Method
R2408678-001	09/04/24 0900	09/06/24 1725	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	105		ug/L	8	10	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
P	Calcium, Total	9400		ug/L	200	1000	1	09/16/24 22:41	R-ICP-AES-		444890
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
P	Iron, Total	900		ug/L	20	100	1	09/16/24 22:41	R-ICP-AES-		444890
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
P	Magnesium, Total	3000		ug/L	70	1000	1	09/16/24 22:41	R-ICP-AES-		444890
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893
MS	Zinc, Total	3.6	J	ug/L	2.5	5.0	1	09/16/24 16:17	R-ICP-MS-	091624-	444893

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client	New York State DEC	Workorder
Project	DEER River	**R2408678**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

24S0559	Collected	Received	Matrix	Prep Method
R2408678-003	09/04/24 0845	09/06/24 1725	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	109		ug/L	8	10	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
P	Calcium, Total	9400		ug/L	200	1000	1	09/16/24 23:03	R-ICP-AES-		444890
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
P	Iron, Total	910		ug/L	20	100	1	09/16/24 23:03	R-ICP-AES-		444890
MS	Lead, Total	0.3	J	ug/L	0.2	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
P	Magnesium, Total	3000		ug/L	70	1000	1	09/16/24 23:03	R-ICP-AES-		444890
MS	Nickel, Total	0.5	J	ug/L	0.5	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893
MS	Zinc, Total	4.9	J	ug/L	2.5	5.0	1	09/16/24 16:19	R-ICP-MS-	091624-	444893

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

Form 1 - Inorganic Analysis Data Sheet

Client New York State DEC

Project DEER River

Workorder **R2408678**

Metals by EPA 200.8 (MS),Metals by EPA 200.7 (P)

Method Blank

	Matrix	Prep Method
R2408678-MB	Water	200.2

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
MS	Aluminum, Total	10	U	ug/L	8	10	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Arsenic, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Cadmium, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Copper, Total	1.0	U	ug/L	0.7	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Lead, Total	1.0	U	ug/L	0.2	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Nickel, Total	1.0	U	ug/L	0.5	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Silver, Total	1.0	U	ug/L	0.4	1.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893
MS	Zinc, Total	5.0	U	ug/L	2.5	5.0	1	09/16/24 16:01	R-ICP-MS-	091624-	444893

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
P	Calcium, Total	1000	U	ug/L	200	1000	1	09/16/24 22:20	R-ICP-AES-		444890
P	Iron, Total	100	U	ug/L	20	100	1	09/16/24 22:20	R-ICP-AES-		444890
P	Magnesium, Total	1000	U	ug/L	70	1000	1	09/16/24 22:20	R-ICP-AES-		444890

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

General Chemistry

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	09/04/24 09:00
Sample Matrix:	Water	**Date Received:**	09/06/24 17:25
Sample Name:	24S0558	**Basis:**	NA
Lab Code:	R2408678-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**34.9**	mg/L	2.0	1	09/16/24 14:28	NA	
Ammonia as Nitrogen	350.1	**0.514**	mg/L	0.010	1	09/20/24 21:43	NA	
Chloride	300.0	**7.4**	mg/L	2.0	10	09/21/24 13:23	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**35.8**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.117**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.147**	mg/L	0.0020	1	09/24/24 22:10	NA	
Nitrite as Nitrogen	353.2	**0.030**	mg/L	0.010	1	09/05/24 18:35	NA	
Nitrogen, Total as Nitrogen	Calculation	**1.06**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.92**	mg/L	0.10	1	09/27/24 01:40	09/25/24	
Phosphorus, Total	365.1	**0.359**	mg/L	0.050	10	09/23/24 16:14	09/20/24	
Turbidity	180.1	**2.2**	NTU	1.0	1	09/05/24 23:58	NA	

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	09/04/24 09:00
Sample Matrix:	Water	**Date Received:**	09/06/24 17:25
Sample Name:	24S0558 Diss	**Basis:**	NA
Lab Code:	R2408678-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**12.8**	mg/L	1.0	1	09/26/24 18:25	

Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	09/04/24 08:45
Sample Matrix:	Water	**Date Received:**	09/06/24 17:25
Sample Name:	24S0559	**Basis:**	NA
Lab Code:	R2408678-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**34.8**	mg/L	2.0	1	09/16/24 14:34	NA	
Ammonia as Nitrogen	350.1	**0.820**	mg/L	0.010	1	09/20/24 21:44	NA	
Chloride	300.0	**7.4**	mg/L	2.0	10	09/21/24 13:29	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	**35.7**	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	**0.115**	mg/L	0.0100	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.136**	mg/L	0.0020	1	09/24/24 22:12	NA	
Nitrite as Nitrogen	353.2	**0.021**	mg/L	0.010	1	09/05/24 18:36	NA	
Nitrogen, Total as Nitrogen	Calculation	**1.60**	mg/L	0.1	1	NA	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**1.46**	mg/L	0.10	1	09/27/24 02:12	09/25/24	
Phosphorus, Total	365.1	**0.423**	mg/L	0.050	10	09/23/24 16:18	09/20/24	
Turbidity	180.1	**2.1**	NTU	1.0	1	09/05/24 23:58	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	09/04/24 08:45
Sample Matrix:	Water	**Date Received:**	09/06/24 17:25
Sample Name:	24S0559 Diss	**Basis:**	NA
Lab Code:	R2408678-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	**12.1**	mg/L	1.0	1	09/26/24 18:42	

QC Summary Forms

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Form 3

Blanks

Metals by EPA 200.7,Metals by EPA 200.8

Workorder

R2408678

Client

New York State DEC

Project

DEER River

09/30/2024

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Form 3 - Blanks

Client	New York State DEC	Workorder
Project	DEER River	**R2408678**

Metals by EPA 200.7 (P)

R-ICP-AES-07_854318			ICB		CCB		CCB		CCB		CCB	
		Run Date	09/16/24		09/16/24		09/16/24		09/16/24		09/17/24	
		Run Time	16:24		22:17		22:53		23:30		00:04	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Calcium	200	1000	200	U	200	U	200	U	200	U	200	U
Iron	20	100	20	U	20	U	20	U	20	U	20	U
Magnesium	70	1000	70	U	70	U	70	U	70	U	70	U

Q - Result Flag   * - Result Outside Limits

Form 3 - Blanks

Client New York State DEC
Project DEER River

Workorder
R2408678

Metals by EPA 200.8 (MS)

R-ICP-MS-02_854286			ICB		CCB		CCB		CCB		CCB	
		Run Date	09/16/24		09/16/24		09/16/24		09/16/24		09/16/24	
		Run Time	13:20		15:59		16:22		16:45		17:00	
		Units	ug/L		ug/L		ug/L		ug/L		ug/L	
		Data File	010_ICB		094_CCB		106_CCB		118_CCB		126_CCB	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	8	10	8	U	8	U	8	U	8	U	8	U
Arsenic	0.4	1.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Cadmium	0.2	1.0	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Copper	0.7	1.0	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Lead	0.2	1.0	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	0.5	1.0	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver	0.4	1.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Zinc	2.5	5.0	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

Form 5A

Matrix Spike Sample Recovery

Metals by EPA 200.7,Metals by EPA 200.8

Workorder

R2408678

Client

New York State DEC

Project

DEER River

09/30/2024

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Form 5A - Matrix Spike Sample Recovery

Client	New York State DEC		Workorder
Project	DEER River		**R2408678**

Metals by EPA 200.7 (P)

RunID
R-ICP-AES-07-854318

24S0558 (R2408678-001)			**R2408678-001MS**		**R2408678-001DMS**	
Sample Matrix Water	**Analysis Batch** 854318		**Run Date**	09/16/24	**Run Date**	09/16/24
Result Units ug/L	**Prep Batch** 444890		**Run Time**	22:44	**Run Time**	22:47
Prep Method EPA 200.2	**Prep Date** 09/16/2024		**Prep Amt**	10 mL	**Prep Amt**	10 mL

Analyte	%R Limits	DF	Sample Result		MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Calcium, Total	70-130	1	9400		11400	2000	NC		11400	2000	**NC**		20	**0.5**	
Iron, Total	70-130	1	900		1960	1000	**105**		1960	1000	**105**		20	**0.2**	
Magnesium, Total	70-130	1	3000		4900	2000	**98**		4900	2000	**97**		20	**0.5**	

Form 5A - Matrix Spike Sample Recovery

Client New York State DEC
Project DEER River

Workorder **R2408678**

Metals by EPA 200.8 (MS)

RunID R-ICP-MS-02-854286

24S0559 (R2408678-003)					R2408678-003MS				R2408678-003DMS						
Sample Matrix Water **Result Units** ug/L **Prep Method** EPA 200.2	**Analysis Batch** 854286 **Prep Batch** 444893 **Prep Date** 09/16/2024				**Run Date** 09/16/24 **Run Time** 16:24 **Prep Amt** 10 mL				**Run Date** 09/16/24 **Run Time** 16:26 **Prep Amt** 10 mL						
Analyte	%R Limits	DF	Sample Result		MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Aluminum, Total	70-130	1	109		148	40	**97**		155	40	**116**		20	**5**	
Arsenic, Total	70-130	1	1.0	U	19.9	20.0	**99**		19.8	20.0	**99**		20	**0.6**	
Cadmium, Total	70-130	1	1.0	U	18.9	20.0	**94**		18.3	20.0	**91**		20	**3**	
Copper, Total	70-130	1	1.0	U	20.3	20.0	**101**		20.1	20.0	**101**		20	**0.7**	
Lead, Total	70-130	1	0.3	J	20.2	20.0	**100**		19.9	20.0	**98**		20	**2**	
Nickel, Total	70-130	1	0.5	J	20.2	20.0	**99**		20.1	20.0	**98**		20	**0.7**	
Silver, Total	70-130	1	1.0	U	19.4	20.0	**97**		19.0	20.0	**95**		20	**2**	
Zinc, Total	70-130	1	4.9	J	24.1	20.0	**96**		24.6	20.0	**99**		20	**2**	

RPD Relative Percent Difference **%R** %Recovery **Q** %R or RPD Flag **NC** Not Calculated **DF** Dilution Factor
MS\D Matrix Spike \Duplicate **OOL** Out of Limits ***** %R or RPD OOL **NS** Not Spiked **Amt** weight or volume

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Form 7

Laboratory Control Sample

Metals by EPA 200.8,Metals by EPA 200.7

Workorder

R2408678

Client

New York State DEC

Project

DEER River

09/30/2024

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Form 7 - Laboratory Control Sample

Client	New York State DEC		Workorder
Project	DEER River		**R2408678**

Metals by EPA 200.7 (P)

RunID
R-ICP-AES-07-854318

R-ICP-AES-07_854318			**R2408678-LCS**		
Spike Matrix Water	**Analysis Batch** ug/L		**Run Date** 09/16/24		
Result Units 09/16/24	**Prep Batch** 854318		**Run Time** 22:23		
Prep Method EPA 200.2	**Prep Date** 444890		**Prep Amt** 10 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Calcium	85-115	2000	2090	**104**	
Iron	85-115	1000	1030	**103**	
Magnesium	85-115	2000	2010	**100**	

Form 7 - Laboratory Control Sample

Client New York State DEC
Project DEER River

Workorder
R2408678

Metals by EPA 200.8 (MS)

RunID
R-ICP-MS-02-854286

R-ICP-MS-02_854286			R2408678-LCS			
Spike Matrix Water **Result Units** 09/16/24 **Prep Method** EPA 200.2	**Analysis Batch** ug/L **Prep Batch** 854286 **Prep Date** 444893		**Run Date** 09/16/24 **Run Time** 16:03 **Prep Amt** 10 mL			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Aluminum	85-115	40	45.5	**114**		
Arsenic	85-115	20.0	20.6	**103**		
Cadmium	85-115	20.0	19.7	**98**		
Copper	85-115	20.0	21.6	**108**		
Lead	85-115	20.0	21.4	**107**		
Nickel	85-115	20.0	21.3	**107**		
Silver	85-115	20.0	20.5	**103**		
Zinc	85-115	20.0	20.9	**104**		

General Chemistry

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408678-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	09/16/24 12:08	NA	
Ammonia as Nitrogen	350.1	0.010	U	mg/L	0.010	1	09/20/24 21:28	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	1.0	U	mg/L	1.0	1	09/26/24 16:29	NA	
Chloride	300.0	0.20	U	mg/L	0.20	1	09/21/24 10:14	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/24/24 22:01	NA	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	09/05/24 18:32	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	09/27/24 01:21	09/25/24	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	09/23/24 15:32	09/20/24	
Turbidity	180.1	1.0	U	NTU	1.0	1	09/05/24 23:58	NA	

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Analytical Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2408678-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.12**	mg/L	0.10	1	09/27/24 01:44	09/25/24	

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Collected:**	09/04/24
Sample Matrix:	Water	**Date Received:**	09/06/24
		Date Analyzed:	09/23/24
		Date Extracted:	09/20/24

Duplicate Matrix Spike Summary
Phosphorus, Total

Sample Name:	24S0558	**Units:**	mg/L
Lab Code:	R2408678-001	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike R2408678-001MS			Duplicate Matrix Spike R2408678-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Total	0.359	0.367	0.025	31 #	0.382	0.025	91 #	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.

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

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

Client: New York State Dept of Environmental Conservation (DEC)
Project: DEER River/RSC24
Sample Matrix: Water

Service Request: R2408678
Date Collected: 09/04/24
Date Received: 09/06/24
Date Analyzed: 09/20/24 - 09/24/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: 24S0559
Lab Code: R2408678-003

Units: mg/L
Basis: NA

			Matrix Spike R2408678-003MS			Duplicate Matrix Spike R2408678-003DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen	350.1	0.820	0.866	0.250	19 *	0.865	0.250	18 *	75-125	<1	20
Nitrate+Nitrite as Nitrogen	353.2	0.136	0.618	0.500	97	0.618	0.500	97	75-125	<1	20
Phosphorus, Total	365.1	0.423	0.443	0.025	80 #	0.439	0.025	66 #	75-125	<1	20

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

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

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

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QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project	DEER River/RSC24	**Date Collected:**	09/04/24
Sample Matrix:	Water	**Date Received:**	09/06/24
		Date Analyzed:	09/05/24

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	24S0559	**Units:**	NTU
Lab Code:	R2408678-003	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2408678-003DUP Result	Average	RPD	RPD Limit
Turbidity	180.1	1.0	2.1	2.1	2.09	2	20

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

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

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

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QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Analyzed:**	09/05/24 - 09/27/24
Sample Matrix:	Water		

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
R2408678-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	26.1	25.0	104	70-130
Ammonia as Nitrogen	350.1	0.248	0.250	99	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	26.5	25.0	106	70-130
Chloride	300.0	1.99	2.00	100	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.528	0.500	106	70-130
Nitrite as Nitrogen	353.2	0.252	0.250	101	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.38	2.50	95	70-130
Phosphorus, Total	365.1	0.0205	0.0250	82	70-130

ALS Group USA, Corp.
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QA/QC Report

Client:	New York State Dept of Environmental Conservation (DEC)	**Service Request:**	R2408678
Project:	DEER River/RSC24	**Date Analyzed:**	09/27/24
Sample Matrix:	Water		

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2408678-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrogen, Total Kjeldahl (TKN)	351.2	2.31	2.50	93	70-130

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Superset Reference:24-0000708424 rev 00

Macroinvertebrate community metrics and Biological Assessment Profile scores for six monitoring locations on the Deer River - 09/03-04/2025.

site_id	Sample Date	REPLICATE	RICHNESS	RICHNESS_SCORE	EPT_RICH	EPT_SCORE	HBI_INDEX	HBI_SCORE	PCT_MODEL_AFFINITY
09-DERR-15.5	9/3/2025	1	25	7.06	13	9	5.63	6.09	41
09-DERR-16.9	9/3/2025	1	24	6.76	13	9	5.87	5.79	59
09-DERR-17.4	9/4/2025	1	33	9.44	20	10	4.87	7.04	65
09-DERR-17.6	9/4/2025	1	33	9.44	16	10	5.24	6.57	60
09-DERR-18.2	9/3/2025	1	29	8.33	20	10	3.59	8.41	65
09-DERR-22.4	9/3/2025	1	37	10	23	10	3.35	8.65	68

site_id	Sample Date	PCT_MODEL_AFFINITY_SCORE	NUTRIENT_BIOTIC_INDEX_P	NBI_P_SCORE	BIO_ASMT_PROFILE_SCORE
09-DERR-15.5	9/3/2025	3.63	6.63	3.43	5.84
09-DERR-16.9	9/3/2025	6.61	6.67	3.33	6.3
09-DERR-17.4	9/4/2025	7.6	5.97	5.08	7.83
09-DERR-17.6	9/4/2025	6.77	6.48	3.8	7.32
09-DERR-18.2	9/3/2025	7.6	4.75	7.75	8.42
09-DERR-22.4	9/3/2025	7.88	5.33	6.68	8.64

Raw macroinvertebrate community data collected during 9/3-4/2024 on the Deer River

Site	Sample Date	Collection Method	Organism	Individual Species Count	Total Individual Count Note	Percent Weight Sorted
09-DERR-16.9	9/3/2024	Kick: Standard	agnetina_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	baetis_flavistriga	1	Flavistriga Complex	36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	baetis_intercalaris	6	Intercalaris Complex	36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	brachycentrus_sp.	2	early	36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	caecidotea_sp.	34		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	campeloma_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	ceratopsyche_bronta	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	ceratopsyche_morosa	3		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	ceratopsyche_sparna	5		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	cheumatopsyche_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	epeorus_vitreus	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	heterocloeon_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	hexatoma_sp.	3		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	isonychia_sp.	2		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	lopescladius_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	microtendipes_pedellus_gr.	2		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	optioservus_sp.	4		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	pisidium_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	plauditus_sp.	1		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	polypedilum_flavum	9		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	polypedilum_halterale_gr.	5		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	simulium_sp.	10		36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	stenelmis_sp.	4	1A	36.61887694
09-DERR-16.9	9/3/2024	Kick: Standard	tricorythodes	1		36.61887694
09-DERR-22.4	9/3/2024	Kick: Standard	acentrella_sp.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	acroneuria_sp.	1	damaged	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	atherix_sp.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	baetis_intercalaris	5	Intercalaris Complex	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	cardiocladius_obscurus	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	ceratopsyche_bronta	5		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	ceratopsyche_morosa	3		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	ceratopsyche_sparna	3		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	cheumatopsyche_sp.	4		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	chimarra_aterrima?	2		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	chimarra_obscura	4		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	corydalus_cornutus	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	dolophilodes_sp.	2		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	epeorus_vitreus	8		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	ephemerella_aurivillii	3	2 agg	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	goera_sp.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	helicopsyche_borealis	3		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	isonychia_sp.	5		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	leucrocuta_sp.	5		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	maccaffertium_sp.	2	damaged/early	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	macrostemum_sp.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	ophiogomphus_sp.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	optioservus_sp.	6	1A	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	paragnetina_immarginata	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	plauditus_sp.	3		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	polypedilum_aviceps	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	polypedilum_flavum	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	promoresia_tardella	7	1A	34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	psephenus_herricki	6		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	rheotanytarsus_exiguus_gr.	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	rheotanytarsus_pellucidus	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	rhyacophila_fuscula	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	rhyacophila_minor	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	stenelmis_sp.	3		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	tricorythodes	1		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	tvetenia_vitracies	4		34.36997319
09-DERR-22.4	9/3/2024	Kick: Standard	undetermined_turbellaria	1		34.36997319
09-DERR-18.2	9/3/2024	Kick: Standard	acentrella_sp.	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	acroneuria_abnormis	3		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	atherix_sp.	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	baetis_intercalaris	1	Intercalaris Complex	23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	ceratopsyche_bronta	6		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	ceratopsyche_morosa	8	2 agg	23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	ceratopsyche_sparna	6		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	cheumatopsyche_sp.	8		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	chimarra_aterrima?	5		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	chimarra_obscura	5		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	corydalus_cornutus	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	dolophilodes_sp.	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	epeorus_vitreus	1		23.65217391

Site	Sample Date	Collection Method	Organism	Individual Species Count	Total Individual Count Note	Percent Weight Sorted
09-DERR-18.2	9/3/2024	Kick: Standard	ephemerella_sp.	2	early	23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	helicopsyche_borealis	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	heterocloeon_sp.	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	isonychia_sp.	6		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	lepidostoma_sp.	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	leucrocuta_sp.	4		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	maccaffertium_modestum	9		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	maccaffertium_vicarium	5		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	optioservus_sp.	3	1A	23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	paragnetina_immarginata	4		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	polypedilum_aviceps	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	psephenus_herricki	1		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	simulium_sp.	2		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	stenelmis_sp.	8	3A	23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	tvetenia_vitracies	4		23.65217391
09-DERR-18.2	9/3/2024	Kick: Standard	undetermined_lumbriculidae	1		23.65217391
09-DERR-15.5	9/3/2024	Kick: Standard	agnetina_sp.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	atherix_sp.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	baetis_flavistriga	1	Flavistriga Complex	45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	baetis_intercalaris	2	Intercalaris Complex	45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	baetis_pluto	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	brachycentrus_appalachia	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	caecidotea_sp.	9		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	campeloma_sp.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	ceratopsyche_bronta	3		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	ceratopsyche_morosa	6		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	ceratopsyche_sparna	19		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	cheumatopsyche_sp.	6		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	chimarra_obscura	2		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	hexatoma_sp.	2		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	hydropsyche_betteni	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	isonychia_sp.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	macronychus_glabratus	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	macrostemum_sp.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	pisidium_sp.	24		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	polypedilum_flavum	2		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	polypedilum_halterale_gr.	1		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	simulium_sp.	2		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	stenelmis_sp.	7	1A	45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	tvetenia_vitracies	4		45.15003489
09-DERR-15.5	9/3/2024	Kick: Standard	undetermined_lumbriculidae	1		45.15003489
09-DERR-17.6	9/4/2024	Kick: Standard	agnetina_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	baetis_flavistriga	2	Flavistriga Complex	22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	baetis_intercalaris	2	Intercalaris Complex	22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	brachycentrus_appalachia	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	caecidotea_sp.	11		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	ceratopsyche_bronta	2		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	ceratopsyche_morosa	4		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	ceratopsyche_sparna	7		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	cheumatopsyche_sp.	11		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	eukiefferiella_brehmi_gr.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	gyraulus_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	helicopsyche_borealis	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	isonychia_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	lepidostoma_sp.	2		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	leucotrichia_sp.	10		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	leucrocuta_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	maccaffertium_modestum	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	maccaffertium_vicarium	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	microtendipes_pedellus_gr.	3		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	microtendipes_rydalensis_gr.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	optioservus_sp.	6		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	polypedilum_flavum	11		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	promoresia_elegans	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	psephenus_herricki	2		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	pseudolimnophila_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	pteronarcys_biloba	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	rheotanytarsus_exiguus_gr.	4		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	rheotanytarsus_pellucidus	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	simulium_sp.	2		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	stenelmis_sp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	thienemannimyia_gr._spp.	1		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	tvetenia_vitracies	3		22.2745098
09-DERR-17.6	9/4/2024	Kick: Standard	undetermined_turbellaria	2		22.2745098

Site	Sample Date	Collection Method	Organism	Individual Species Count	Total Individual Count Note	Percent Weight Sorted
09-DERR-17.4	9/4/2024	Kick: Standard	acentrella_sp.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	agnetina_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	baetis_flavistriga	6	Flavistriga Complex	26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	baetis_intercalaris	15	Intercalaris Complex	26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	brachycentrus_appalachia	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	caecidotea_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	cardiocladius_obscurus	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	ceratopsyche_bronta	5		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	ceratopsyche_morosa	4		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	ceratopsyche_sparna	22		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	cheumatopsyche_sp.	5		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	cricotopus_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	epeorus_vitreus	3		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	helicopsyche_borealis	3		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	isonychia_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	lepidostoma_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	leucotrichia_sp.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	maccaffertium_modestum	2	1 agg	26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	maccaffertium_vicarium	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	macrostemum_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	microtendipes_pedellus_gr.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	pisidium_sp.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	plauditus_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	polypedilum_flavum	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	psephenus_herricki	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	psychomyia_flavida	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	rheotanytarsus_exiguus_gr.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	simulium_sp.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	stenelmis_sp.	2		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	tanytarsus_sp.	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	tricorythodes	1		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	tvetenia_vitracies	3		26.3866878
09-DERR-17.4	9/4/2024	Kick: Standard	undet._tubificidae_w/_cap._setae	1		26.3866878