



April 3, 2024

Mr. Leland Carpenter
Town Supervisor
Town of LeRay
8650 LeRay Street
Evans Mills, NY 13638

Re: Cleaning and Rehabilitation Report
Carey Well - Town of LeRay, NY

Dear Mr. Carpenter:

Northeast Geoscience, Inc. (NGI) has prepared the following report on the recent cleaning, rehabilitation and water quality testing of the Carey Well in LeRay, NY. Keller's Well Drilling of Watertown, NY performed the work from December 9, 2023 to February 9, 2024.

CAREY WELL DESCRIPTION

The Carey Well (PW-1) is a 10-inch by 18-inch diameter gravel packed well installed in 2009 to a depth of 40 feet. The well was constructed with 10 feet of 0.060-inch slot size stainless steel wire wrap well screen from 30 feet to 40 feet. In February 2009 the well was pump tested for 72 hours at a flow rate of 295 gpm with and the safe yield of the well was estimated by NGI to be 263 gpm. In 2012 the operator received red water customer complaints due to slightly elevated concentrations of iron in the raw water. Operators have noted reductions in well yield over time. Historical records of performance tests conducted on the Carey Well are summarized as follows:

2/9/2009 – Test After Installation

Specific Capacity = 295 gpm/24.65 feet of drawdown = 11.96 gpm/ft

9/4/2013

Specific Capacity = 197 gpm/22.21 ft = 8.86 gpm/ft

10/7/2013

Specific Capacity = 172 gpm/19.74 ft = 8.71 gpm/ft

Reductions in well yield and specific capacity are likely a result of physical clogging of the well screen and gravel pack with iron oxide, iron reducing bacteria and other naturally occurring bacteria. NGI recommended that the well be cleaned using a combination of physical and chemical methods to remove biofilm and chemical encrustation from the well screen. The objective of the well cleaning procedure was to increase the yield and efficiency of the Carey Well.

BASELINE TESTING RESULTS

Keller's Well Drilling conducted an initial pumping test on the Carey Well on December 9, 2023 to evaluate well performance. Water level and flow rate data collected during that test are summarized on Table 1 and a graph of the test is presented on Figure 1. The well was then cleaned and rehabilitated in accordance with the specification provided to BCA and Keller's Well Drilling by NGI in 2022.

The existing pumping equipment and pitless unit were removed from the well. A 7 h.p. submersible test pump and motor was temporarily installed in the well and water was discharged to ground surface prior to chemical applications. The static water level was 6.71 feet below the top of the well casing. The well was pumped for a period of 60 minutes at a flow rate of 130 gallons per minute. Water level data collected during the test are presented on Table 1 and graphed on Figure 1. The maximum drawdown recorded in the pumping well was 21.75 feet corresponding to a drawdown of 15.04 feet and a specific capacity of 8.64 gpm/ft. Water initially pumped from the well had a dark red color and contained high concentrations of sediment, precipitated iron and biofilm that had accumulated in the well since it was last pumped. The specific capacity was measured at approximately 72% of the specific capacity of the well at the time of installation, and supports the conclusion a cleaning was required at this time.

WELL CLEANING PROCEDURE

Keller's Well Drilling installed a 10-inch diameter Cotey Chemical Well Cleaning Brush and 10-inch diameter rubber surge block on drilling tools in the well. The brush and surge block were used to physically clean the well and well screen, and to break up and remove accumulated biofilm and chemical tuberculation. Significant quantities of biofilm, iron oxide sludge and sediment were removed by pumping the well initially and after brushing and surging. Following physical cleaning of the well, chemical treatment was initiated.

Keller's Well Drilling treated the Carey Well with 25 gallons of Liquid Descaler as manufactured by Cotey Chemical Corporation. The chemical application was followed by introduction of 50 gallons of clean water to force increase the radial effectiveness of the cleaning chemicals. The Cotey Chemical brush and surge block were used to agitate the well, stir the chemical solution to promote chemical reactions. The acid solution was allowed to remain in the well overnight to react. On December 11, 2023 water and treatment chemicals were pumped from the well into a temporary storage container for neutralization of pH with soda ash. Water was discharged when the pH was above 6.0. After the chemical treatment, the well was pumped and surged for a period of 4 hours and water from the well began to clear.

POST CLEANING TESTING

A 25 h.p. submersible test pump was installed in the well to facilitate testing. The well was pumped at a flow rate of 245 gpm for a period of 60 minutes. A log of the test is included on Table 1 and a graph of data from the test is presented on Figure 1. The maximum depth to water recorded in the pumping well just prior to shutdown of the test was 21.75 feet or 15.04 feet of drawdown. This corresponds to a specific capacity of 16.21 gpm/ft. This value is higher than the original specific capacity at the time of installation of 11.23 gpm/ft. NGI attributes this to several factors including a lower flow rate, a shorter duration of pumping, and high-water conditions. The data shows that the capacity of the Carey Well was restored to near original condition by the cleaning procedure.

After the cleaning was complete, the well was pumped to waste and a water sample was collected for Full Part 5 Analyses on February 5, 2024. The results of these tests are summarized on Table 2. Elevated concentrations of total dissolved solids, alkalinity, calcium hardness, sodium and chloride were detected in water from the well. The well had low nitrates, nitrites and ammonia and no volatile organic contaminants or synthetic organic compounds were detected in samples collected. NGI interprets the sodium and chloride to be a result of road salt applications on Route 11 and adjacent paved surfaces.

CONCLUSIONS

NGI concludes that the well cleaning procedure conducted by Keller's Well Drilling restored the yield of the Carey Well to near original condition. The Carey Well should be operated at a flow rate of 245 gpm

or slightly lower to preserve well yield. The presence of dissolved iron and manganese in water from the well will promote growth of iron bacterial and associated biofilm and chemical encrustation of the well screen. This well will likely need to be cleaned at least one time every three years the well is operated to maintain well yield. Generally, a well should be cleaned if the specific capacity is reduced to 75% or less than the original specific capacity.

Please feel free to contact me with any questions.

Sincerely:

NORTHEAST GEOSCIENCE, INC.



Jay Billings, NYPG #001212

Hydrogeologist

LIST OF ATTACHMENTS

Table 1 - Pumping Test Data

Table 2 - Water Quality Data

Figure 1 - Graph of Pumping test Data

**Table 1 - 10-inch Well Testing - Cary Well
Town of LeRay, NY**

BASELINE TEST PRIOR TO CLEANING

Date	Time	ET (min)	DTW (ft)	DD (ft)	Q (gpm)
12/9/23	9:00	0	6.71	0.00	0
	9:00	0.5	14.08	7.37	130
	9:01	1	19.29	12.58	130
	9:02	2	21.75	15.04	130
	9:03	3	21.75	15.04	130
	9:04	4	21.75	15.04	130
	9:05	5	21.75	15.04	130
	9:10	10	21.75	15.04	130
	9:15	15	21.75	15.04	130
	9:30	30	21.75	15.04	130
	9:45	45	21.75	15.04	130
	10:00	60	21.75	15.04	130
	10:00:30	60.5	20.17	13.46	0
	10:01	61	18.92	12.21	0
	10:02	62	16.08	9.37	0
	10:03	63	14.65	7.94	0
	10:04	64	11.18	4.47	0
	10:05	65	8.77	2.06	0

PERFORMANCE TEST AFTER CLEANING

2/9/24	12:30	0	6.71	0.00	0
	12:31	0.5	11.06	4.35	245
	12:32	1	15.50	8.79	245
	12:32	2	17.27	10.56	245
	12:33	3	18.67	11.96	245
	12:34	4	19.25	12.54	245
	12:35	5	20.92	14.21	245
	12:36	6	21.75	15.04	245
	12:40	10	21.75	15.04	245
	12:45	15	21.75	15.04	245
	12:30	30	21.75	15.04	245
	12:45	45	21.75	15.04	245
	13:00	60	21.75	15.04	245
	13:00:30	60.5	15.33	8.62	0
	q3:01	61	13.21	6.50	0
	13:02	62	9.33	2.62	0
	13:03	63	8.13	1.42	0
	13:04	64	7.42	0.71	0
	13:05	65	6.96	0.25	0
	13:10	70	6.81	0.10	0
	13:15	75	6.79	0.08	0
	13:30	90	6.75	0.04	0
	13:45	105	6.75	0.04	0
	14:00	120	6.67	-0.04	0

Notes DTW - Depth to Water from Top of Well Casing
 DD - Water level drawdown
 gpm - gallons per minute
 Q - flow rate
 ET - Elapsed Time

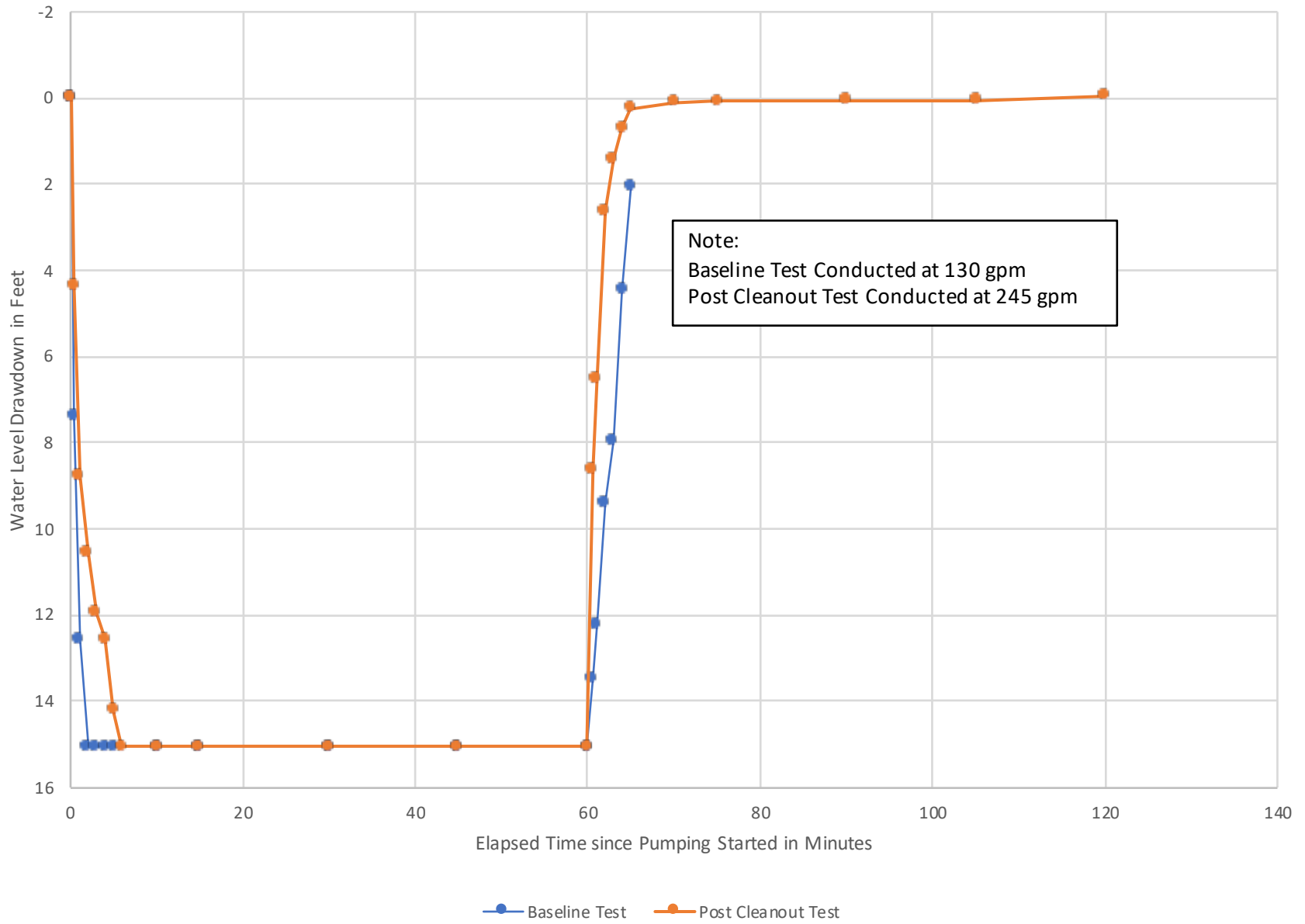
**Table 2 - Laboratory Results for 2/5/2024 - Carey Well Site
LeRay, New York**

Parameter	Units	Result	MCL
pH	S.U.	7.36	6.5-8.5*
Temperature	Deg. C	12.8	NCS
Odor	TON	No Odor	3
Total Dissolved Solids	mg/l	1100	500
Apparent Color (Total and Dissolved)	Apparent C	ND	15
Turbidity (Total and Dissolved)	NTU	1.39	5
Chloride	mg/l	410	250
Fluoride	mg/l	0.44	2
Sulfate	mg/l	91.2	250
Alkalinity (as CaCO3)	mg/l	298	NCS
Antimony	mg/l	ND	0.006
Arsenic	mg/l	ND	0.01
Barium	mg/l	0.1237	2
Beryllium	mg/l	ND	0.004
Cadmium	mg/l	ND	0.005
Calcium	mg/l	123	150
Chromium	mg/l	0.0018	0.1
Iron (Total & Dissolved)	mg/l	0.272	0.3
Lead	mg/l	ND	0.015
Magnesium	mg/l	42.8	NCS
Manganese	mg/l	0.1706	0.05*
Mercury	mg/l	ND	0.002
Nickel	mg/l	0.0056	NCS
Potassium	mg/l	5.05	NCS
Selenium	mg/l	ND	0.05
Silver	mg/l	ND	0.1
Sodium	mg/l	171	250
Thallium	mg/l	ND	0.002
Zinc	mg/l	0.1089	5
Total Hardness	mg/l	484	>180 = hard
Aluminum	mg/l	ND	0.05-0.2
Copper	mg/l	0.0041	1
Nitrate	mg/l	0.12	10
Nitrite	mg/l	ND	1
Cyanide	mg/l	ND	200
Total Coliform Bacteria	col/100 ml	NEG	0
Volatile Organic Compounds	ug/l	ND	<0.5
Total PFAS	ng/l	2.74	<10
Synthetic Organic Compounds	ug/l	ND	various
1,4-Dioxane	ug/l	ND	1
Gross Alpha	pCi/l	3.74	15
Radium 226	pCi/l	0.205	5
Radium 228	pCi/l	0.753	5
Silicon Dioxide (Silica)	ug/l	11300	NCS
Ammonia	mg/l	0.132	NCS
Dissolved Oxygen	mg/l	9.44	NCS
Bacterial Iron	cfu/ml	<25*	NCS
Asbestos	structures	NSD*	7
Bromate	ug/l	2.2U	10
Chlorite	ug/l	5.6U	1
Tannin & Lignin	mg/l	ND	NCS

Notes:

- S.U. - Standard Units
- TON - Threshold Odor Number
- NTU - Nephelometric Turbidity Units
- mg/l - milligrams per liter
- NCS - No concentration set
- NS - Not Sampled
- Risk Points - EPA Consensus Method Risk Factor Points

Figure 1 - Linear Graph of Water Level Data Collected Testing the Carey Well



Converse Laboratories Inc.
800 Starbuck Ave. Suite B101
Watertown, NY 13601

NYS Approved ELAP
ID# 10708

USPH Certified
ID# 36144

Client: Town of Leray
8650 Leray St.
Evans Mills, NY 13637

Report Date:
3/14/2024

Laboratory Report

Sample ID: 2401041 Sample Type: GW-Grab
Sample Date/Time: 2/5/2024 1153 Sample Site: CWFD Well Site
Date/Time Received: 2/5/2024 1315 Sampler: KK

Analysis	Result	Units	Method Code	Lab ID	Date/Time/Tech Tested
Iron Bacteria*	<25	cfu/ml	HACH-BART-IRB	10708	2/5/2024 1540 KMB
Coliform, Total	NEG	100ml	SM 21-9223B	10708	2/5/2024 1525 KMB

Authorized Review by/Supervisor : Kathleen Bonny

Key: mg/l - Milligrams per Liter

E - Estimated

cfu/ml - colony forming units per milliliters

*Report Comment: Iron Bacteria is not on the laboratory's current scope of accreditation.

The information in this report is accurate to the best of our knowledge and capability. In no event shall our liability exceed the cost of these services. I certify that these results conform to NYS Department of Health Standard and requirements (10 NYDDR Subpart 55-2). Sample results are based on samples as they are received, unless sampled by CLI. This report shall not be reproduced, except in full, without written approval from CLI.

Converse Laboratories Inc.
800 Starbuck Ave. Suite B101
Watertown, NY 13601

NYS Approved ELAP
ID# 10708

USPH Certified
ID# 36144

Client: Town of Leray
8650 Leray St.
Evans Mills, NY 13637

Report Date:
3/8/2024

Laboratory Report

Sample ID: 2401041 Sample Type: GW-Grab
Sample Date/Time: 2/5/2024 1153 Sample Site: CWFD Well Site
Date/Time Received: 2/5/2024 1315 Sampler: KK

Analysis	Result	Units	Method Code	Lab ID	Date/Time/Tech Tested
Solids, Dissolved	1100	mg/l	SM 21 2540C	10708	2/6/2024 1605 TLE
Turbidity	1.39	ntu	EPA 180.1	10708	2/5/2024 1600 TLE
Oxygen, Dissolved	9.44	mg/l	SM 21-5210	10708	2/5/2024 1346 TLE
Hydrogen Ion (PH)	7.36	--	SM 21-4500-H+B	10708	2/5/2024 1345 TLE
Temperature	12.8	Deg. C	SM-18 2550B	10708	2/5/2024 1345 TLE

Authorized Review by/Supervisor : Kathleen Bonny

Key: mg/l - Milligrams per Liter

E - Estimated

ntu- Nephelometric Turbidity unit

The information in this report is accurate to the best of our knowledge and capability. In no event shall our liability exceed the cost of these services. I certify that these results confirm to NYS Department of Health Standard and requirements (10 NYDDR Subpart 55-2). Sample results are based on samples as they are received, unless sampled by CLI. This report shall not be reproduced, except in full, without written approval from CLI.

Report Comments: pH and Temperature are not included in NYS DOH ELAP certification program.

Dissolved Oxygen was not analyzed within 15 minute HT. Dissolved oxygen is not included in the NYS DOH ELAP certification program.



CONVERSE LABORATORIES, INC.
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 2

Client Name: <u>Town of Leray</u>		Client Project ID / PO#:	
Client Address: <u>9650 Leray St</u>		Matrix - see codes above	
E-Mail address: <u>EVANS MILLS NY 13637</u>		Chlorine Residual	
Phone #: <u>315 607-0576</u>		G = Grab C = Composite	
E-Mail address: <u>KRZERE DANC ORB</u>		G = Grab C = Composite	
Contact/Report to: <u>Kenny Krzere</u>		Matrix - see codes above	
Sampler: <u>KK</u>		Chlorine Residual	

Date Collected	Time Collected	Sample Identification	Matrix	Received by:	Date	Time
02/05/24	11:53	CWFD well site	G GW .07	Jamie Sultr	2/5/24	1:15
02/05/24	11:58	CWFD well site	G GW .07			
02/05/24	12:11	CWFD well site	G GW .07 X			
02/05/24	12:11	CWFD well site	G GW .07 X			
02/05/24	12:14	CWFD well site	G GW .07			
02/05/24	12:16	CWFD well site	G GW .07			
02/05/24	12:17	CWFD well site	G GW .07			
02/05/24	12:18	CWFD well site	G GW .07			
02/05/24	12:21	CWFD well site	G GW .07			

Relinquished by: <u>[Signature]</u>	Date: <u>2-5-24</u>	Time: <u>1:15</u>
Received by: <u>Jamie Sultr</u>	Date: <u>2/5/24</u>	Time: <u>1315</u>

Matrix Codes DW= Drinking Water GW=Ground Water WW=Wastewater SL=Sludge SW=Surface Water SO=Soil	Sample Information: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Dug <input type="checkbox"/> Finished <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Other: <input type="checkbox"/> Chlorinated <input type="checkbox"/> UV
PLEASE NOTE: Reports for businesses will be forwarded to your DOH.	DATE NEEDED: _____ a.m. / p.m.
Preservative Codes 1= Na ₂ S ₂ O ₃ 2= HCl 3= H ₂ SO ₄ 4= HNO ₃ 5= NaOH 6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=	NOTES TO LABORATORY
List Preservative Code Below 1 2 3 4 5 6 7 8	ANALYSIS / TEST REQUESTED
Subcontracted Y / N	SAMPLE ID # (lab use only)

Normal TAT <input type="checkbox"/>	ICED? <input type="checkbox"/>	AUTHORIZED RECIPIENTS & CONTACT INFO.
Rush TAT <input type="checkbox"/>	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	* Report NIN separately
SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *if no, see attached sheet		YES NO

Doc. # 357
1/2/2024
Rev. # 118

Amt. Due: _____ Amt. Paid: _____

Cash _____ Check# _____ CC _____

Initial Review: LD5-2/5/24
Transcriptional Rev.: _____
Final Review: _____



CONVERSE LABORATORIES, INC.
 800 Starbuck Ave., Suite B101, Watertown, NY 13601
 (315) 788-8388 www.converselabs.com

Chain of Custody

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SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet YES NO																																																																																																			

Amt. Due: _____ Amt. Paid: _____ Initial Review: WJ LGS - 2/5/24
 Cash _____ Check# _____ Transcriptional Rev.: _____ Final Review: _____

Project Name: TOWN OF LERAY
Project Number: AL24-0132

Lab Number: L2406557
Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
Client ID: T/O LERAY CWFD WELL SITE
Sample Location: Not Specified

Date Collected: 02/05/24 11:53
Date Received: 02/06/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 02/09/24 18:04
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	0.50	--	1
Bromomethane	ND		ug/l	0.50	--	1
Chloroethane	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	0.50	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Methylene chloride	ND		ug/l	0.50	--	1
Methyl tert butyl ether	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	--	1
1,1-Dichloroethane	ND		ug/l	0.50	--	1
2,2-Dichloropropane	ND		ug/l	0.50	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Chloroform	ND		ug/l	0.50	--	1
Bromochloromethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.50	--	1



Project Name: TOWN OF LERAY

Lab Number: L2406557

Project Number: AL24-0132

Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
 Client ID: T/O LERAY CWFD WELL SITE
 Sample Location: Not Specified

Date Collected: 02/05/24 11:53
 Date Received: 02/06/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichloropropane	ND		ug/l	0.50	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
p/m-Xylene	ND		ug/l	0.50	--	1
o-Xylene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	0.50	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Xylenes, Total ¹	ND		ug/l	0.50	--	1
1,2,3-Trichloropropane	ND		ug/l	0.50	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	0.50	--	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	--	1
o-Chlorotoluene	ND		ug/l	0.50	--	1
p-Chlorotoluene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	0.50	--	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
1,3-Dichlorobenzene	ND		ug/l	0.50	--	1
1,4-Dichlorobenzene	ND		ug/l	0.50	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	0.50	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	--	1



Project Name: TOWN OF LERAY

Lab Number: L2406557

Project Number: AL24-0132

Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
 Client ID: T/O LERAY CWFD WELL SITE
 Sample Location: Not Specified

Date Collected: 02/05/24 11:53
 Date Received: 02/06/24
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	102		80-120
4-Bromofluorobenzene	96		80-120



VOLATILES

Project Name: TOWN OF LERAY
Project Number: AL24-0132

Lab Number: L2406557
Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
 Client ID: T/O LERAY CWFD WELL SITE
 Sample Location: Not Specified

Date Collected: 02/05/24 11:53
 Date Received: 02/06/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Dw
 Analytical Method: 120,522
 Analytical Date: 02/29/24 18:16
 Analyst: TPR

Extraction Method: EPA 522
 Extraction Date: 02/28/24 15:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by EPA 522 - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.150	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	71		70-130



Project Name: TOWN OF LERAY
Project Number: AL24-0132

Lab Number: L2406557
Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
Client ID: T/O LERAY CWFD WELL SITE
Sample Location: Not Specified

Date Collected: 02/05/24 11:53
Date Received: 02/06/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 02/14/24 23:07
Analyst: CAP

Extraction Method: EPA 537.1
Extraction Date: 02/14/24 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	2.74		ng/l	1.95	--	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.95	--	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	1.95	--	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.95	--	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.95	--	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	1.95	--	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.95	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.95	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.95	--	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.95	--	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	1.95	--	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.95	--	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.95	--	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.95	--	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.95	--	1
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	1.95	--	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.95	--	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.95	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	98		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	87		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	102		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97		70-130



SEMIVOLATILES

Project Name: TOWN OF LERAY
Project Number: AL24-0132

Lab Number: L2406557
Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
 Client ID: T/O LERAY CWFD WELL SITE
 Sample Location: Not Specified

Date Collected: 02/05/24 11:53
 Date Received: 02/06/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Antimony, Total	ND		mg/l	0.0040	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Arsenic, Total	ND		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Barium, Total	0.1237		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Beryllium, Total	ND		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Cadmium, Total	ND		mg/l	0.0002	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Calcium, Total	123.		mg/l	0.100	--	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA
Chromium, Total	0.0018		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Copper, Total	0.0041		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Iron, Total	0.272		mg/l	0.0500	--	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA
Lead, Total	ND		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Magnesium, Total	42.8		mg/l	0.100	--	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA
Manganese, Total	0.1706		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Mercury, Total	ND		mg/l	0.0002	--	1	02/17/24 09:58	02/20/24 09:32	EPA 245.1	3,245.1	GMG
Nickel, Total	0.0056		mg/l	0.0020	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Potassium, Total	5.05		mg/l	2.50	--	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA
Selenium, Total	ND		mg/l	0.0050	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Silver, Total	ND		mg/l	0.0004	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Sodium, Total	171.		mg/l	2.00	--	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA
Thallium, Total	ND		mg/l	0.0010	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Zinc, Total	0.1089		mg/l	0.0050	--	1	02/17/24 09:01	02/19/24 11:55	EPA 3005A	3,200.8	NTB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	484.		mg/l	0.660	NA	1	02/17/24 09:01	02/18/24 18:45	EPA 3005A	19,200.7	TAA



METALS



Project Name: TOWN OF LERAY

Lab Number: L2406557

Project Number: AL24-0132

Report Date: 03/08/24

SAMPLE RESULTS

Lab ID: L2406557-01
 Client ID: T/O LERAY CWFD WELL SITE
 Sample Location: Not Specified

Date Collected: 02/05/24 11:53
 Date Received: 02/06/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Odor @ 60 C	NO ODOR		TON	1	--	1	-	02/07/24 08:30	121,2150B	JBB
Color, Apparent	ND		A.P.C.U.	5.0	--	1	-	02/07/24 08:00	121,2120B	JBB
Alkalinity, Total	298.		mg CaCO3/L	2.00	NA	1	-	02/12/24 10:47	121,2320B	MRW
Specific Conductance @ 25 C	1800		umhos/cm	10	--	1	-	02/07/24 20:41	121,2510B	AAS
Cyanide, Total	ND		mg/l	0.005	--	1	02/13/24 15:35	02/14/24 12:56	121,4500CN-CE	JER
Nitrogen, Ammonia	0.132		mg/l	0.075	--	1	02/10/24 10:53	02/12/24 18:53	44,350.1	AT
Nitrogen, Nitrite	ND		mg/l	0.050	--	1	-	02/07/24 05:41	44,353.2	KAF
Nitrogen, Nitrate	0.120		mg/l	0.100	--	1	-	02/07/24 05:41	121,4500NO3-F	KAF
Anions by Ion Chromatography - Westborough Lab										
Chloride	410.		mg/l	5.00	--	10	-	02/08/24 00:04	44,300.0	AVT
Fluoride	0.440		mg/l	0.050	--	1	-	02/07/24 23:53	44,300.0	AVT
Sulfate	91.2		mg/l	1.00	--	1	-	02/07/24 23:53	44,300.0	AVT



INORGANICS & MISCELLANEOUS



ANALYTICAL RESULTS

Project: L2406557
 Pace Project No.: 35859250

Sample: T/O LERAY CWFD WELL Lab ID: 35859250001 Collected: 02/05/24 11:53 Received: 02/08/24 10:25 Matrix: Drinking Water
 SITE

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.1 Oxihalide IC Anions 14d		Analytical Method: EPA 300.1 Pace Analytical Services - Ormond Beach							
Chlorite	5.6U	ug/L	20.0	5.6	10		02/10/24 23:08		D3
Surrogates									
Dichloroacetate (S)	104	%	90-115		10		02/10/24 23:08	79-43-6	
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1 Pace Analytical Services - Ormond Beach							
Bromate	2.2U	ug/L	10.0	2.2	10		02/10/24 23:08	15541-45-4	D3
Surrogates									
Dichloroacetate (S)	104	%	90-115		10		02/10/24 23:08	79-43-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2406557
 Pace Project No.: 70286826

Sample: T/O LERAY CWFD WELL SITE Lab ID: 70286826001 Collected: 02/05/24 11:53 Received: 02/08/24 08:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
505 GCS Pesticides/PCBs								
Analytical Method: EPA 505 Preparation Method: EPA 505 Pace Analytical Services - Melville								
Alachlor	<0.20	ug/L	0.20	1	02/12/24 17:38	02/13/24 01:46	15972-60-8	
Aldrin	<0.025	ug/L	0.025	1	02/12/24 17:38	02/13/24 01:46	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020	1	02/12/24 17:38	02/13/24 01:46	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20	1	02/12/24 17:38	02/13/24 01:46	57-74-9	
Dieldrin	<0.050	ug/L	0.050	1	02/12/24 17:38	02/13/24 01:46	60-57-1	
Endrin	<0.010	ug/L	0.010	1	02/12/24 17:38	02/13/24 01:46	72-20-8	
Heptachlor	<0.025	ug/L	0.025	1	02/12/24 17:38	02/13/24 01:46	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020	1	02/12/24 17:38	02/13/24 01:46	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10	1	02/12/24 17:38	02/13/24 01:46	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10	1	02/12/24 17:38	02/13/24 01:46	77-47-4	
Methoxychlor	<0.10	ug/L	0.10	1	02/12/24 17:38	02/13/24 01:46	72-43-5	
PCB Screen	<0.40	ug/L	0.40	1	02/12/24 17:38	02/13/24 01:46		
Toxaphene	<1.0	ug/L	1.0	1	02/12/24 17:38	02/13/24 01:46	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	104	%	56-149	1	02/12/24 17:38	02/13/24 01:46	877-09-8	
Decachlorobiphenyl (S)	109	%	60-151	1	02/12/24 17:38	02/13/24 01:46	2051-24-3	
515.3 Chlorinated Herbicides								
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Melville								
2,4-D	<0.10	ug/L	0.10	1	02/08/24 15:36	02/15/24 06:16	94-75-7	
Dalapon	<0.70	ug/L	0.70	1	02/08/24 15:36	02/15/24 06:16	75-99-0	
Dicamba	<1.0	ug/L	1.0	1	02/08/24 15:36	02/15/24 06:16	1918-00-9	
Dinoseb	<0.20	ug/L	0.20	1	02/08/24 15:36	02/15/24 06:16	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040	1	02/08/24 15:36	02/15/24 06:16	87-86-5	
Picloram	<0.10	ug/L	0.10	1	02/08/24 15:36	02/15/24 06:16	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13	1	02/08/24 15:36	02/15/24 06:16	93-72-1	
Surrogates								
2,4-DCAA (S)	95	%	70-130	1	02/08/24 15:36	02/15/24 06:16	19719-28-9	
531.2 HPLC Carbamates								
Analytical Method: EPA 531.2 Pace Analytical Services - Melville								
Aldicarb	<0.50	ug/L	0.50	1		02/10/24 06:30	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80	1		02/10/24 06:30	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50	1		02/10/24 06:30	1646-87-3	
Carbofuran	<0.90	ug/L	0.90	1		02/10/24 06:30	1563-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0	1		02/10/24 06:30	16655-82-6	
Methomyl	<1.0	ug/L	1.0	1		02/10/24 06:30	16752-77-5	
Oxamyl	<1.0	ug/L	1.0	1		02/10/24 06:30	23135-22-0	
Carbaryl	<1.0	ug/L	1.0	1		02/10/24 06:30	63-25-2	
Surrogates								
BDMC (S)	88	%	70-130	1		02/10/24 06:30		
524.3 MSV SIM								
Analytical Method: EPA 524.3 Pace Analytical Services - Melville								
1,2,3-Trichloropropane	<0.010	ug/L	0.010	1		02/12/24 22:13	96-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2406557
 Pace Project No.: 70286826

Sample: T/O LERAY CWFD WELL Lab ID: 70286826001 Collected: 02/05/24 11:53 Received: 02/08/24 08:00 Matrix: Drinking Water
 SITE

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.3 MSV SIM		Analytical Method: EPA 524.3 Pace Analytical Services - Melville						
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010	1		02/12/24 22:13	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010	1		02/12/24 22:13	96-12-8	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	98	%	70-130	1		02/12/24 22:13	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	105	%	70-130	1		02/12/24 22:13	29366-08-3	
4-Bromofluorobenzene (S)	93	%	70-130	1		02/12/24 22:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Collected date/time: 02/05/24 11:53

L1705438

Radiochemistry by Method 900

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
GROSS ALPHA	3.74	<u>J</u>	4.97	3.00	4.25	4.09	02/26/2024 12:30	<u>WG2227087</u>

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

AmeriSci Job #: 124021250
Client Name: Converse Labs

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
T/O LERAY; NY

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	T/O LERAY - CWFD Well Site; Water	0.005	0	NSD	NSD	0.19	<0.19	<0.19	----

* NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter; Drinking Water accreditations do not cover waste water analysis. NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1). Fiber criteria (>=0.5 microns, for 100.1; >10 microns for 100.2; 5:1 aspect ratio for both), organic rich waste water prepped by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Sample temperatures reported above were measured upon receipt. Water samples are refrigerated upon receipt and filtered within four hours.

Reviewed By:

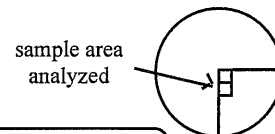


Analyzed By: Cory M. Parnell



Date: 2/12/2024

TEM Asbestos (Water) Count Sheet



<u>Client Name:</u> Converse Labs		<u>Volume (liters):</u> 0.005
<u>Job #:</u> 124021250		<u>Filter Type / Filter Area:</u> MCE 214 mm ²
<u>Lab Sample #:</u> 01		<u>Grid Opening Size:</u> 0.01003
<u>Client Sample #:</u>		<u>Area Examined:</u> 0.22066 mm ²
<u>Received:</u> 02/07/24 12:00:00		<u>Magnification:</u> 20,000
<u>Date Analyzed:</u> 02/12/24	<u>Temp:</u> 0	<u>Accelerating Voltage:</u> 100 KeV

Analysis Performed by: Cory M. Parnell

Location	Grid Opening	Fiber	Length μm	Width μm	Fiber Type	Morphology	EDS	Orient.	SAED	Photo
C4-C5/1	1	NSD							<input type="checkbox"/>	
C4-E5/1	2	NSD							<input type="checkbox"/>	
C4-F5/1	3	NSD							<input type="checkbox"/>	
C4-G5/1	4	NSD							<input type="checkbox"/>	
C4-H5/4	5	NSD							<input type="checkbox"/>	
C4-K5/4	6	NSD							<input type="checkbox"/>	
C4-B4/1	7	NSD							<input type="checkbox"/>	
C4-C4/1	8	NSD							<input type="checkbox"/>	
C4-E4/1	9	NSD							<input type="checkbox"/>	
C4-F4/1	10	NSD							<input type="checkbox"/>	
C4-G4/1	11	NSD							<input type="checkbox"/>	
C3-C3/1	12	NSD							<input type="checkbox"/>	
C3-E3/1	13	NSD							<input type="checkbox"/>	
C3-F3/1	14	NSD							<input type="checkbox"/>	
C3-G3/1	15	NSD							<input type="checkbox"/>	
C3-H3/1	16	NSD							<input type="checkbox"/>	
C3-K3/1	17	NSD							<input type="checkbox"/>	
C3-C5/4	18	NSD							<input type="checkbox"/>	
C3-E5/4	19	NSD							<input type="checkbox"/>	
C3-F5/4	20	NSD							<input type="checkbox"/>	
C3-G5/4	21	NSD							<input type="checkbox"/>	
C3-H5/4	22	NSD							<input type="checkbox"/>	

NSD: No Asbestos Structures Detected

Scope #: Front 4: Jeol JEM-100CX II, Serial No.156147-247

Comments

	Concentration (million fibers/liter)	Grid Evaluation
Total Grid Openings: 22		<input checked="" type="checkbox"/> Grid Openings Covered > 50%
Chrysotile Asbestos Structures: 0	<0.194	<input checked="" type="checkbox"/> Intact Grid Opening > 50%
Amphibole Asbestos Structures: 0	<0.194	<input checked="" type="checkbox"/> Undissolved Filter < 10%
Asbestos Structures >10 microns: 0	<0.194	<input checked="" type="checkbox"/> Folded Replica < 50%
Total Asbestos Structures: 0	<0.194	<input checked="" type="checkbox"/> Filter Loading < 25%
Analytical Sensitivity: 0.194		<input checked="" type="checkbox"/> Particulate Even



ANALYTICAL RESULTS

Project: TOWN OF LERAY L2409540

Pace Project No.: 70288360

Sample: T/O LERAY CWFD WELL Lab ID: 70288360001 Collected: 02/05/24 11:53 Received: 02/23/24 08:00 Matrix: Drinking Water
SITE

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Silica	11300	ug/L	50.0	1	02/28/24 07:47	02/28/24 16:04	7631-86-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

**NEW YORK
CHAIN OF
CUSTODY**

Manfield, MA 02048
32B Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Walhacy Rd, Suite 8
Albany, NY 12205: 14 Walker Hwy
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

L2409540 DJL 2/22/24

ALPHA Job #
21724

Client Information

Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@conver

Project Information

Project Name: TOWN OF LERAY
Project Location: AL24-0132
(Use Project name as Project #)
Project Manager: Brenda Pinfield
ALPHA Quote #: Turn-Around Time
Standard Rush (only if pre approved)
Due Date: # of Days:

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

ANALYSIS

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
88 METALS Sb,As,Ba,Be,Cd,Cr,Hg,NI,Se,TL,Al,Ca,Cu,Fe,Mn,Pb,Mg,K,Ag,Zn,Na,SILICA
Please specify Metals or TAL.

Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS																	
					HARD	MET	ALUM	CHL	SULFATE	CVA	PTAS 937	COLO	RODOR	Sub Silica	Sub Silica	Sub Silica						
09540	2/5/2024	1159A	DW	KK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Westboro: Certification No: MA035
Manfield: Certification No: MA015

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Container Type: A P P P P P P
Preservative: A C C A A E

Relinquished By: [Signature] Date/Time: 2/6/2024 1600
Received By: [Signature] Date/Time: 2/6/24 1745

Project Name: T/O LERAY
Project Number: AL24-0233

Lab Number: L2410414
Report Date: 03/04/24

SAMPLE RESULTS

Lab ID: L2410414-01
Client ID: T/O LERAY CWFD WELL SITE
Sample Location: Not Specified

Date Collected: 02/26/24 09:21
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Tannin & Lignin	ND		mg/l	0.20	--	1	-	03/04/24 07:30	121,5550B	MKT





**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@converse.com

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:

Please specify Metals or TAL.

Project Information

Project Name: T/O LERAY
Project Location: AL24-0233
(Use Project name as Project #)
Project Manager: Brenda Pirinelli
ALPHAQuote #:
Turn-Around Time

Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B
 EQulS (1 File) EQulS (4 File)
 Other

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

ANALYSIS

Sample ID	Collection		Sample Matrix	Sampler's Initials
	Date	Time		
T/O LERAY CWFD WELL SITE	2/26/2024	0921A	DW	KK

Sample Filtration
 Done
 Lab to do
 Preservation
 Lab to do
(Please Specify below)
Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:
A. FLITCROFT

Received By: _____
Date/Time: 2/27/2024 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1
of 3

ALPHA Job #

Project Information

Project Name: TOWN OF LERAY
Project Location: AL24-0132

Deliverables

ASP-A
 EQUS (1 File)
 Other
 ASP-B
 EQUS (4 File)

Billing Information

Same as Client Info
PO #

Client Information

Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@converse.com

Regulatory Requirement

NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge
 NY Part 375
 NY CP-51
 Other

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
 NJ NY
 Other.

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

8B METALS Sb,As,Ba,Be,Cd,Cr,Hg,Ni,Se,Ti,Al,Ca,Cu,Fe,Mn,Pb,Mg,K,Ag,Zn,Na SILICA

Please specify Metals or TAL.
silica - not enough volume for silica.

ANALYSIS

Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Color/DOR	HARDNESS	METALS*	ALKALINITY	CHLORIDE	SULFATE/FLUORIDE	CYANIDE	PFAS 537
T/O LERAY CWFD WELL SITE	2/5/2024	1153A	DW	KK	1	X	1	1	X	1	1	1

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Color/DOR	HARDNESS	METALS*	ALKALINITY	CHLORIDE	SULFATE/FLUORIDE	CYANIDE	PFAS 537	Sample Specific Comments
	T/O LERAY CWFD WELL SITE	2/5/2024	1153A	DW	KK	1	X	1	1	X	1	1	1	

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle
O = Other

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By: A. FLITCROFT
Date/Time: 2/6/2024 1600

Received By: [Blank]
Date/Time: [Blank]

Container Type: A
Preservative: A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



NEW YORK CHAIN OF CUSTODY

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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@converse.com

Project Information

Project Name: TOWN OF LERAY
Project Location:
Project #: AL24-0132
Project Manager: Brenda Pirinelli
ALPHAQuote #:
Turn-Around Time
Standard [checked] Due Date:
Rush (only if pre approved) [] # of Days:

Deliverables

ASP-A [] ASP-B []
EQUIS (1 File) [] EQUIS (4 File) []
Other []

Billing Information

[checked] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[] NJ [] NY
[] Other:

These samples have been previously analyzed by Alpha []
Other project specific requirements/comments:

METALS Sb,As,Ba,Be,Cd,Cr,Hg,Ni,Se,Ti,Al,Ca,Cu,Fe,Mn,Mg,K,Ag,Zn,Na,SILICA

Please specify Metals or TAL.

525.2) 515, 531, 504, 505

ALPHA Lab ID (Lab Use Only)

Sample ID: T/O LERAY CWFD WELL SITE

Collection Date: 2/5/2024 11:53A

Sample Matrix: DW

Sampler's Initials: KK

ANALYSIS

Table with columns for ANALYSIS (CONDUCTIVITY, AMMONIA, NITRITE, NITRATE, 1-4 DIOXANE, SOC SUITE*) and checkboxes for 1, X, 1, 1, 1, 1.

Sample Filtration

[] Done
[] Lab to do Preservation
[] Lab to do
(Please Specify below)
Sample Specific Comments

Preservative Code:

- A = None
B = HCl
C = HNO3
D = H2SO4
E = NaOH
F = MeOH
G = NaHSO4
H = Na2S2O3
K/E = Zn Ac/NaOH
O = Other

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: V P P P

Preservative: B A D A

Relinquished By: A. FLITCROFT

Date/Time: 2/6/2024 1600

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Project Information

Project Name: TOWN OF LERAY
Project Location: AL24-0132

Deliverables

ASP-A
 EQUS (1 File)
 Other

Billing Information

Same as Client Info
PO #

Client Information

Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@converse.com

Regulatory Requirement

NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ
 NY
 Other:

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:

PLEASE DO NOT SEND PARTIAL. PLEASE SEND FULL REPORT WHEN EVERYTHING IS COMPLETE.

Please specify Metals or TAL.

ANALYSIS

Sample ID	Collection		Sample Matrix	Sampler's Initials				
	Date	Time						
T/O LERAY CWFD WELL SITE	2/5/2024	1153A	DW	KK				
<i>Must resample RADS 226/228 per lab - camp</i>								

Sample Filtration	
<input type="checkbox"/> Done	
<input type="checkbox"/> Lab to do Preservation	
<input type="checkbox"/> Lab to do	

(Please Specify below)

Sample Specific Comments	

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	Date/Time	Received By:
V	P P P	
B	A D A	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHAS TERMS & CONDITIONS.



CONVERSE LABORATORIES, INC.
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 2

Attachment

Client Name: <u>Town of Leray</u>		Client Project ID / PO# :		
Client Address: <u>9650 Leray St</u>		Matrix - see codes above		
<u>Evans Mills NY 13637</u>		Chlorine Residual		
Phone #: <u>315 607-0576</u>	Cell #: _____	G = Grab C = Composite		
E-Mail address: <u>KRZC@DANC.ORG</u>				
Contact/Report to: <u>Kenny KrzC</u>				
Sampler: <u>KK</u>				
Date Collected	Time Collected	Sample Identification	Matrix	Residual
02/05/24	11:53	CWFD well site	G	GW .07
02/05/24	11:58	CWFD well site	G	GW .07
02/05/24	12:11	CWFD well site	G	GW .07 X
02/05/24	12:11	CWFD well site	G	GW .07 X
02/05/24	12:14	CWFD well site	G	GW .07
02/05/24	12:16	CWFD well site	G	GW .07
02/05/24	12:17	CWFD well site	G	GW .07
02/05/24	12:18	CWFD well site	G	GW .07
02/05/24	12:21	CWFD well site	G	GW .07

Relinquished by: <u>[Signature]</u>	Date: <u>2-5-24</u>	Time: <u>1:15</u>	Received by: <u>Jamie Sulta</u>	Date: <u>2/5/24</u>	Time: <u>1315</u>
-------------------------------------	---------------------	-------------------	---------------------------------	---------------------	-------------------

Sample Information:	Matrix Codes	PLEASE NOTE:	ANALYSIS / TEST REQUESTED	SAMPLE ID # (lab use only)
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Finished <input type="checkbox"/> Chlorinated <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Other:	DW= Drinking Water GW=Ground Water WW=Wastewater SL=Sludge SW=Surface Water SO=Soil	Reports for businesses will be forwarded to your DOH. NOTES TO LABORATORY Normal TAT <input type="checkbox"/> Rush TAT <input type="checkbox"/> Date Needed: _____ a.m. / p.m.	PFOA - M-533 SOCs Coliform Fe-Bact Metals - see attached Sub Nitrate/Nitrite Turbidity Chloride Red 226/228, Gross Alpha, Uranium Sub	1033 Sub 151041 Sub 151041 H033 Tz L FeTC 1044 Sub 151033 Sub

ICED?	AUTHORIZED RECIPIENTS & CONTACT INFO.
<input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO	* Report NIN separately

SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *if no, see attached sheet
YES NO

Doc. # 357
1/2/2024
Rev. # 118

Amt. Due: _____ Amt. Paid: _____

Cash _____ Check# _____ CC _____

Initial Review: LDS-2/5/24
Transcriptural Rev.: _____
Final Review: _____



CONVERSE LABORATORIES, INC.
 800 Starbuck Ave., Suite B101, Watertown, NY 13601
 (315) 788-8388 www.converselabs.com

Chain of Custody

attachment
 Page 2 of 2

Client Name: Town of Lerery		Client Project ID / PO#:	
Client Address: 8650 Lerery St		Matrix Codes DW= Drinking Water GW=Ground Water WW=Wastewater SL=Sludge SW=Surface Water SO=Soil	
Phone #: 315-608-0576		Preservative Codes 1= Na ₂ S ₂ O ₃ 2= HCl 3= H ₂ SO ₄ 4= HNO ₃ 5= NaOH 6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=	
E-Mail address: FKizzer@DANC.org		List Preservative Code Below 1 2 3 4 5 6 7 8	
Contact/Report to: Kenny Kizer		Chlorine Residual	
Sampler: KK		Matrix - see codes above	
Date Collected		Sample Identification	
02/05/24	12:24	GW	07
02/05/24	12:27	GW	07
02/05/24	12:28	GW	07
02/05/24	12:29	GW	07
02/05/24	12:33	GW	07
02/05/24	12:38	GW	07
02/05/24	12:40	GW	07
02/05/24	12:42	GW	07
02/05/24	12:44	GW	07
02/05/24	12:44	GW	07

PLEASE NOTE:
 Reports for businesses will be forwarded to your DOH.

Normal TAT Rush TAT

Sample Information:
 Drilled Dug
 Finished Raw Other:
 Chlorinated UV

ANALYSIS / TEST REQUESTED
 Asbestos 10411033
 pH, Perchlorate Sub
 Alk. Sulfate, Fluoride
 Conductivity
 VOCs 104115
 Dissolved O₂ 1033
 Cyanide Sub
 Ammonia
 Color/Odor 104115
 TDS, Temp 1033

Rec'd Temp°
 8-9

ICED? YES NO

AUTHORIZED RECIPIENTS & CONTACT INFO
 DO NOT SEND PARTIAL

SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet
 YES NO

Initial Review: WJ/LDS - 2/5/24
 Transcriptional Rev.:
 Final Review:

Amt. Due: Amt. Paid: Amt. Paid:
 Cash Check# CC



CONVERSE LABORATORIES, INC
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page of

AL24-0233

Client Name: <u>Town of Leary</u>		Client Project ID / P.O.#: _____	
Client Address: <u>850 Leary St</u>		Matrix - see codes above	
Phone #: <u>315 608-0576</u> Cell #: _____		G = Grab C = Composite	
E-Mail address: <u>fkizzee@aic.org</u>		Chlorine Residual	
Contact/Report to: <u>Kenny Kizzee</u>			
Sampler: <u>KK</u>			

Date Collected	Time Collected	Sample Identification	List Preservative Code Below								Subcontracted Y/N	REPORT TO DOH: Yes ___ No ___	Initials										
			1	2	3	4	5	6	7	8													
2-26-24	9:21 AM	CWFD Well site									1												

Reinquished by: <u>[Signature]</u>	Date: <u>2-26-24</u>	Time: <u>9:37 AM</u>	Received by: <u>[Signature]</u>	Date: <u>2/26/24</u>	Time: <u>9:37</u>	Rec'd Temp.: <u>9.5</u>	ICED? <u>(Yes/No)</u>	AUTHORIZED RECIPIENTS & CONTACT INFO.
SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF NO, SEE ATTACHED SHEET								

Doc. # 357
6/1/2016
Rev. # 115
Page 1 of 1

Amt. Due: _____ Amt. Paid: _____

Cash _____ Check# _____ CC _____

Initial Review: [Signature]
Transcriptional Rev.: _____
Final Review: _____

BC Group OR T/LerRay

T. LerRay

Proposed Laboratory Testing Parameters - Carey Well Site
LeRay, New York

1/22/24

(1) plastic
HANDS

(1) sterile thio

(1) set SOC

(1) set 533
1-A

(3) liters
RADs

(1) set H4 trials

(1) NaOH

(1) 250 wt NH

(2) liters

(1) 1/2 lit.

(2) 1/2 gals

(1) H2SO4 plastic

(1) 250 wt
TANK

(1) 50

(1) strike

(1) liter plastic

(1) liter plastic

Parameter	Units				Standard #
pH	S.U.	X	NCS		15
Temperature	Deg. C	X	NCS		0
Specific Conductance	us/cm	X	NCS		17
Odor	TON	X	3		205
Total Dissolved Solids	mg/l	X	500		18
Apparent Color (Total and Dissolved)	Apparent C	X	15		
Turbidity (Total and Dissolved)	NTU	X	NCS		16
Chloride	mg/l	X	250		
Fluoride	mg/l	X	2.2		
Sulfate	mg/l	X	250		
Alkalinity (as CaCO3)	mg/l	X	NCS		45
Antimony	mg/l	X	0.006		
Arsenic	mg/l	X	0.01		
Barium	mg/l	X	2		
Beryllium	mg/l	X	0.004		
Cadmium	mg/l	X	0.005		
Calcium	mg/l	X	NCS		
Chromium	mg/l	X	0.1		
Iron (Total & Dissolved)	mg/l	X	0.3		
Lead	mg/l	X	0.015		
Magnesium	mg/l	X	NCS		
Manganese	mg/l	X	0.3		
Mercury	mg/l	X	0.002		
Nickel	mg/l	X	0.1		
Potassium	mg/l	X	NCS		
Selenium	mg/l	X	0.05		
Silver	mg/l	X	NCS		
Sodium	mg/l	X	250		
Thallium	mg/l	X	0.002		
Zinc	mg/l	X	5		
Total Hardness	mg/l	X	NCS		
Aluminum	mg/l	X	0.05		
Copper	mg/l	X	1		
Nitrate	mg/l	X	10		
Nitrite	mg/l	X	1		
Cyanide	mg/l	X	0.2		
Total Coliform Bacteria	col/100 ml	X	0		
Volatile Organic Compounds	ug/l		various		
Total PFAS	ng/l		10		
Synthetic Organic Compounds	ug/l		various		765
1,4-Dioxane	ug/l		1		160
Gross Alpha	pCi/l		15		125
Uranium	Pci/l		30		75
Radium 226	pCi/l		5		225
Radium 228	pCi/l		5		225
Perchlorate	ug/l		0.8		210
Silicon Dioxide (Silica)					
Ammonia					
Tannic Acid					
Dissolved Oxygen					
Bacterial Iron					
Asbestos					
Bromate					
Chlorite					
Hydrogen Sulfide					

Notes:
S.U. - Standard Units
TON - Threshold Odor Number
NTU - Nephelometric Turbidity Units
mg/l - milligrams per liter
NCS - No concentration set
NS - Not Sampled
Risk Points - EPA Consensus Method Risk Factor Points

lignis



CONVERSE LABORATORIES, INC.
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 2

Client Name: <u>Town of Lewis</u>		Client Project ID / PO#:	
Client Address: <u>9650 Lewis St</u>		Matrix - see codes above	
E-Mail address: <u>EVANS Mills NY 13637</u>		Chlorine Residual	
Phone #: <u>315 607-0576</u>		G = Grab C = Composite	
E-Mail address: <u>AKZURE DANC 008</u>		G GW .07	
Contact/Report to: <u>Kenny Kruc</u>		G GW .07	
Sampler: <u>KK</u>		G GW .07	
Cell #:		G GW .07	
Date Collected		Sample Identification	
02/05/24	11:53	CWFD well site	
02/05/24	11:58	CWFD well site	
02/05/24	12:11	CWFD well site	
02/05/24	12:11	CWFD well site	
02/05/24	12:14	CWFD well site	
02/05/24	12:16	CWFD well site	
02/05/24	12:17	CWFD well site	
02/05/24	12:18	CWFD well site	
02/05/24	12:21	CWFD well site	
Relinquished by: <u>[Signature]</u>		Received by: <u>Lauri Sultz</u>	
Date		Time	
2-5-24	1:15		
Date		Time	
2/5/24	1315		
Matrix Codes		Date	
DW= Drinking Water		2/5/24	
GW=Ground Water WW=Wastewater			
SL=Sludge SW=Surface Water SO=Soil			
Sample Information:		Time	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Dug		
<input type="checkbox"/> Finished	<input checked="" type="checkbox"/> Raw		
<input type="checkbox"/> Chlorinated	<input type="checkbox"/> UV		
PLEASE NOTE:		AUTHORIZED RECIPIENTS & CONTACT INFO.	
Reports for businesses will be forwarded to your DOH.		ICED? <input type="checkbox"/>	
NOTES TO LABORATORY		* Report NIN separately	
Normal TAT <input type="checkbox"/>		SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *if no, see attached sheet	
Rush TAT <input type="checkbox"/>		YES NO	
Date Needed: a.m. / p.m.		YES NO	
ANALYSIS / TEST REQUESTED		Rec'd Temp°	
PFOA - M-533		89	
SOCS		1315	
Coliform			
Fe-Bact			
Metals - see attached			
Nitrate/Nitrite			
Turbidity			
Chloride			
Red 226/228, Gross Alpha, Uranium Sub			
SAMPLE ID # (lab use only)			
1033 Sub			
151041 Sub			
151041			
1033 TC			
L FeTC			
1044 Sub			
151033			
Sub			

Doc. # 357
1/2/2024
Rev. # 118

Amt. Due: _____ Amt. Paid: _____

Cash _____ Check# _____ CC _____

Initial Review: LD5-2/5/24
Transcriptural Rev.: _____
Final Review: KMS 3/14/24

Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

SAMPLE RESULTS

Lab ID: L2414033-01
Client ID: T/O LERAY CWFD WELL SITE WD2
Sample Location: Not Specified

Date Collected: 03/12/24 12:53
Date Received: 03/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Anions by Ion Chromatography - Westborough Lab										
Chloride	362.		mg/l	5.00	--	10	-	03/16/24 12:03	44,300.0	CVN



Project Name: T/O LERAY

Lab Number: L2416443

Project Number: AL24-0366

Report Date: 03/28/24

SAMPLE RESULTS

Lab ID: L2416443-01
 Client ID: T/O LERAY CWFD
 Sample Location: CWFD

Date Collected: 03/26/24 10:22
 Date Received: 03/26/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 133,537.1
 Analytical Date: 03/28/24 08:04
 Analyst: AC

Extraction Method: EPA 537.1
 Extraction Date: 03/28/24 01:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	2.78		ng/l	1.91	--	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.91	--	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	1.91	--	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.91	--	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.91	--	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	1.91	--	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.91	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.91	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.91	--	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.91	--	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	1.91	--	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.91	--	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.91	--	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.91	--	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.91	--	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	1.91	--	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.91	--	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.91	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	101		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	94		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	86		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		70-130



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

SAMPLE RESULTS

Lab ID: L2416443-02
Client ID: FIELD BLANK
Sample Location: CWFD

Date Collected: 03/26/24 10:22
Date Received: 03/26/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 03/28/24 08:12
Analyst: AC

Extraction Method: EPA 537.1
Extraction Date: 03/28/24 01:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	--	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	--	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	2.00	--	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	--	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	--	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	2.00	--	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	--	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	--	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	--	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	--	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	2.00	--	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	--	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	--	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	--	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	--	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	2.00	--	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	--	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	91		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	100		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		70-130





ANALYTICAL REPORT

Lab Number:	L2416443
Client:	Converse Laboratories, Inc. 800 Starbuck Ave Suite B101 Watertown, NY 13601
ATTN:	Dave Converse
Phone:	(315) 788-8388
Project Name:	T/O LERAY
Project Number:	AL24-0366
Report Date:	03/28/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2416443-01	T/O LERAY CWFD	DW	CWFD	03/26/24 10:22	03/26/24
L2416443-02	FIELD BLANK	DW	CWFD	03/26/24 10:22	03/26/24



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

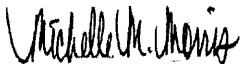
Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 03/28/24

SEMIVOLATILES

Serial_No:03282415:17
 Lab Number: L2416443
 Report Date: 03/28/24

Project Name: T/O LERAY
 Project Number: AL24-0366

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
 Cooler A Custody Seal Absent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2416443-01A	Plastic 250ml Trizma preserved	A	NA	3.4	Y	Y	Absent	A2-537.1(14)	
L2416443-01B	Plastic 250ml Trizma preserved	A	NA	3.4	Y	Y	Absent	A2-537.1(14)	
L2416443-02A	Plastic 250ml Trizma preserved	A	NA	3.4	Y	Y	Absent	A2-537.1(14)	

*Values in parentheses indicate holding time in days



Project Name: T/O LERAY
Project Number: AL24-0366

Serial_No:03282415:17
Lab Number: L2416443
Report Date: 03/28/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSA)s		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESA)s		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCA)s		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafuoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6



Project Name: T/O LERAY
Project Number: AL24-0366

Serial_No:03282415:17
Lab Number: L2416443
Report Date: 03/28/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- NR** - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0366

Lab Number: L2416443
Report Date: 03/28/24

REFERENCES

- 133 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N. **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY
 Westborough, MA 01581
 8 Watcup Dr.
 TEL: 508-898-9220
 FAX: 508-898-9193

Service Centers
 Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
 Albany, NY 12205: 14 Walker Way
 Tonawanda, NY 14150: 375 Cooper Ave, Suite 105

Page 1
of 1

Client Information
 Client: Converse Laboratories Inc.
 Address: 800 Starbuck Ave Ste B101
 Watertown, NY 13601
 Phone: 315-788-8388
 Fax: 315-788-9258
 Email: customerservice2@conver

Project Information
 Project Name: T/O LERAY
 Project Location: CWFD
 Project #: AL24-0366
 Project Manager: Brenda Pitrinelli
 ALPHAQuote #:
 Turn Around Time:
 Standard:
 Rush (only if pre approved):

Disposal Information
 Same as Client Info
 PO #
 Disposal Facility:
 NJ NY Other:
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NY TOGS NY Part 375
 AWC Standards NY CP-61
 NY Restricted Use Other:
 NY Unrestricted Use
 NYC Sewer Discharge

ONLY ANALYZE FIELD BLANK IF THERE IS A DETECTION IN THE SAMPLE
 PLEASE RUSH ASAP - THIS IS A RE-SAMPLE (imp)
 PLEASE specify Metals or TAL.

Sample ID	Collection		Sample Matrix	Sampler's Initials
	Date	Time		
T/O LERAY CWFD	3/26/2024	1022A	DW	KK
FIELD BLANK	3/26/2024	1022A	DW	KK

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₈
 K/E = Zn Ac/NaOH
 O = Other

Container Code:
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 D = BOD Bottle

Westboro: Certification No: MAB35
 Mansfield: Certification No: MAD15

Relinquished By: _____
 Date/Time: 3/26/2024 1800
 3/26/2024 1800

Received By: _____
 Date/Time: _____
 3/26/2024 00:50

Container Type: P
 Preservative: A

ANALYSIS
 Sample Filtration:
 Done
 Lab to do Preservation
 Lab to do
 (Please Specify below)
 Sample Specific Comments:
 937.1



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

ALPHA Job #

Date Rec'd
in Lab

Client Information
Client: Converse Laboratories Inc
Address: 800 Starbuck Ave Ste B101
Watertown, NY 13601
Phone: 315-788-8388
Fax: 315-788-9258
Email: customerservice2@converse.com

Project Information

Project Name: T/O LERAY
Project Location: CWFD
Project # AL24-0366
(Use Project name as Project #)

Deliverables

ASP-A
 EQUS (1 File)
 Other

Billing Information

Same as Client Info
PO #

Project Manager: Brenda Pirinelli
ALPHAQuote #:
Turn-Around Time

Standard
Rush (only if pre approved)
Due Date: **ASAP**
of Days:

Regulatory Requirement

NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:

NJ
 Other: NY

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

ONLY ANALYZE FIELD BLANK IF THERE IS A DETECTION IN THE SAMPLE

PLEASE RUSH ASAP - THIS IS A RE-SAMPLE

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date/Time	Container Type	Date/Time
		Date	Time					
	T/O LERAY CWFD	3/26/2024	1022A	DW	KK	537.1	P	
	FIELD BLANK	3/26/2024	1022A	DW	KK		Preservative	

ANALYSIS

o	t	a	i	B	o	t	t	e

Sample Filtration

Done
 Lab to do
 Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHAS TERMS & CONDITIONS.

Preservative Code:
A = None
B = HCl
C = HNO3
D = H2SO4
E = NaOH
F = MeOH
G = NaHSO4
H = Na2S2O3
K/E = Zn Ac/NaOH
O = Other

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
A. FLITCROFT	3/26/2024 1600		



CONVERSE LABORATORIES, INC.
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 1

Client Name: <u>Town of Leray</u>		Client Project ID / PO#:	
Client Address: <u>8650 Leray St</u>		Matrix Codes: DW= Drinking Water GW=Ground Water WW=Wastewater SL=Sludge SW=Surface Water SO=Soil	
Phone #: <u>845 Mills NY 13637</u>		Preservative Codes: 1= Na ₂ S ₂ O ₃ 2= HCl 3= H ₂ SO ₄ 4= HNO ₃ 5= NaOH 6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=	
E-Mail address: <u>35608-0576</u>		List Preservative Code Below	
Contact/Report to: <u>KAREN DANICORNY</u>		1 2 3 4 5 6 7 8	
Sampler: <u>KK</u>		Chlorine Residual	
Date Collected: <u>3-26-24</u>		Matrix - see codes above	
Time Collected: <u>10:22AM</u>		G = Grab C = Composite	
Sample Identification: <u>CWFD Well</u>		G GW	
Date: <u>3-26-24</u>		Received by: <u>[Signature]</u>	
Time: <u>12:10pm</u>		Date: <u>3/26/24</u>	
Relinquished by: <u>[Signature]</u>		Time: <u>12:10</u>	
Date: <u>3-26-24</u>		Date: <u>3/26/24</u>	
Time: <u>12:10pm</u>		Time: <u>12:10</u>	
ICED? <u>Yes/No</u>		AUTHORIZED RECIPIENTS & CONTACT INFO.	
Rec'd Temp		SAMPLE ID # (lab use only) <u>2807</u>	
SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet		ANALYSIS / TEST REQUESTED	
YES NO		Date Needed: a.m. / p.m.	
SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet		ANALYSIS / TEST REQUESTED	
YES NO		Date Needed: a.m. / p.m.	

Doc. # 357
1/2/2024
Rev. # 118

Amt. Due: _____ Amt. Paid: _____

Cash _____ Check# _____ CC _____

Initial Review: [Signature]
Transcriptural Rev.: _____
Final Review: _____



ANALYTICAL REPORT

Lab Number:	L2414033
Client:	Converse Laboratories, Inc. 800 Starbuck Ave Suite B101 Watertown, NY 13601
ATTN:	Dave Converse
Phone:	(315) 788-8388
Project Name:	T/O LERAY
Project Number:	AL24-0309
Report Date:	03/19/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2414033-01	T/O LERAY CWFD WELL SITE WD2	DW	Not Specified	03/12/24 12:53	03/14/24



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 03/19/24

INORGANICS & MISCELLANEOUS

Serial_No: 03192415:38
 Lab Number: L2414033
 Report Date: 03/19/24

Project Name: T/O LERAY
 Project Number: AL24-0309

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
 Cooler Custody Seal
 A Absent

Container Information
 Container ID Container Type
 L2414033-01A Plastic 250ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	4.2	Y	Absent		CL-300(28)



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- NR** - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report - No QC



Project Name: T/O LERAY
Project Number: AL24-0309

Lab Number: L2414033
Report Date: 03/19/24

REFERENCES

- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9200 FAX: 508-898-8153	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12208: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other
Client Information Client: Converse Laboratories Inc Address: 800 Starbuck Ave Ste B101 Watertown, NY 13601 Phone: 315-788-8388 Fax: 315-788-8258 Email: CUSTOMERSERVICE2@converse		Billing Information Project Name: T/O LERAY Project Location: AL24-0309 Project #: (Use Project name as Project #) <input type="checkbox"/>	
Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NY Part 375 <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:			
Please specify Metals or TAL.			
Sample ID T/O LERAY CWFD WELL SITE WD2	Collection Date 3/12/2024	Collection Time 1253P	Sample Matrix DW
		Sampler's Initials KK	ANALYSIS CHLORIDES
Sample Specific Comments			
Container Code: A = None P = Plastic B = HCl A = Amber Glass C = HNO ₃ V = Vial D = H ₂ SO ₄ G = Glass E = NaOH B = Bacteria Cup F = MeOH C = Cuba G = NaHSO ₄ O = Other H = Na ₂ S ₂ O ₃ E = Encore ME = Zn Acet/NaOH D = BOD Bottle Q = Other			
Westboro: Certification No. MA635 Mansfield: Certification No. MA015		Container Type Preservative A	
Relinquished By: _____ A. FLITCROFT		Date/Time 3/14/2024 1600	
Received By: _____ MLC		Date/Time 3/14/24 1710	
Form No: 01-25 (rev. 30-Sept-2013)		3/15/24 0030	



**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Date Rec'd
In Lab

ALPHA Job #

Client Information

Project Information

Project Name: T/O LERAY
Project Location: AL24-0309

Project # AL24-0309
(Use Project name as Project #)

Project Manager: Brenda Pirinelli
ALPHAQuote #:

Turn-Around Time
Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A
 EQUS (1 File)
 Other

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
 NJ NY
 Other:

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

ANALYSIS

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration

Done
 Lab to do
 Preservation
 Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)

Sample ID

Collection Date

Time

Sample Matrix

Sampler's Initials

CHLORIDES

1

3/12/2024

1253P

DW

KK

Preservative Code:

- A = None
- B = HCl
- C = HNO₃
- D = H₂SO₄
- E = MeOH
- F = NaHSO₄
- G = Na₂S₂O₃
- H = Na₂S₂O₃
- K/E = Zn Ac/NaOH
- O = Other

Container Code

- P = Plastic
- A = Amber Glass
- V = Vial
- G = Glass
- B = Bacteria Cup
- C = Cube
- O = Other
- E = Encore
- D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

A. FLITCROFT

3/14/2024, 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



CONVERSE LABORATORIES, INC.
800 Starbuck Ave., Suite B101, Watertown, NY 13601
(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 1
A124-0309

Client Name: <u>Town of Leray</u>		Client Project ID / PO#:	
Client Address: <u>3650 Leray St</u>		Matrix - see codes above	
Phone #: <u>315 680 576</u>		Chlorine Residual	
E-Mail address: <u>KKENNEDY@DAVE.org</u>		G = Grab C = Composite	
Contact/Report to: <u>Kenny Knaz</u>		Matrix - see codes above	
Sampler: <u>KK</u>		Chlorine Residual	
Date Collected	Time Collected	Sample Identification	Matrix - see codes above
3-12-24	12:53	CWFD Well site W02	G GW .02
3-12-24	12:53	CWFD Well site W03	G GW .02
3-12-24	12:53	CWFD Well site W02	G GW .02

Matrix Codes DW= Drinking Water GW=Ground Water WW=Wastewater SL=Sludge SW=Surface Water SO=Soil		Sample Information: <input type="checkbox"/> Drilled <input type="checkbox"/> Dug <input type="checkbox"/> Finished <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Other: <input type="checkbox"/> Chlorinated <input type="checkbox"/> UV	
Preservative Codes 1= Na ₂ S ₂ O ₃ 2= HCl 3= H ₂ SO ₄ 4= HNO ₃ 5= NaOH 6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=		PLEASE NOTE: Reports for businesses will be forwarded to your DOH. NOTES TO LABORATORY <input checked="" type="checkbox"/> Normal TAT <input type="checkbox"/> Rush TAT Date Needed: _____ a.m. / p.m.	
List Preservative Code Below 1 2 3 4 5 6 7 8		ANALYSIS / TEST REQUESTED SAMPLE ID # (lab use only)	
		14 Perchlorate 2437 sub	
		16 Uranium	
		16 Chlorides	

Relinquished by:	Date	Time	Received by:	Date	Time	Rec'd Temp°	ICED?	AUTHORIZED RECIPIENTS & CONTACT INFO.
<u>Kenny Knaz</u>	3-12-24	1:41 PM	<u>Alpha</u>	3/12/24	1341	12.4	<input checked="" type="checkbox"/> No	Alpha

SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet

Initial Review: Amf 3/12/24
 Transcriptional Rev.: _____
 Final Review: _____

Amt. Due: _____ Amt. Paid: _____
 Cash _____ Check# _____ CC _____