



April 3, 2024

Water Supply and Environmental Consulting

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 prepare 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 tuburculation. 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 ND	0.03
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
			1
Copper Nitrate	mg/l	0.0041	10
Nitrite	mg/l	ND	10
Cyanide	mg/l	ND ND	200
,	mg/l		
Total Coliform Bacteria	col/100 ml	NEG	0
Volatile Organic Compounds	ug/l	ND 2.74	<0.5
Total PFAS	ng/l	2.74	<10
Synthetic Organic Compounds	ug/l	ND	various
1,4-Dioxane	ug/l	ND 2.74	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

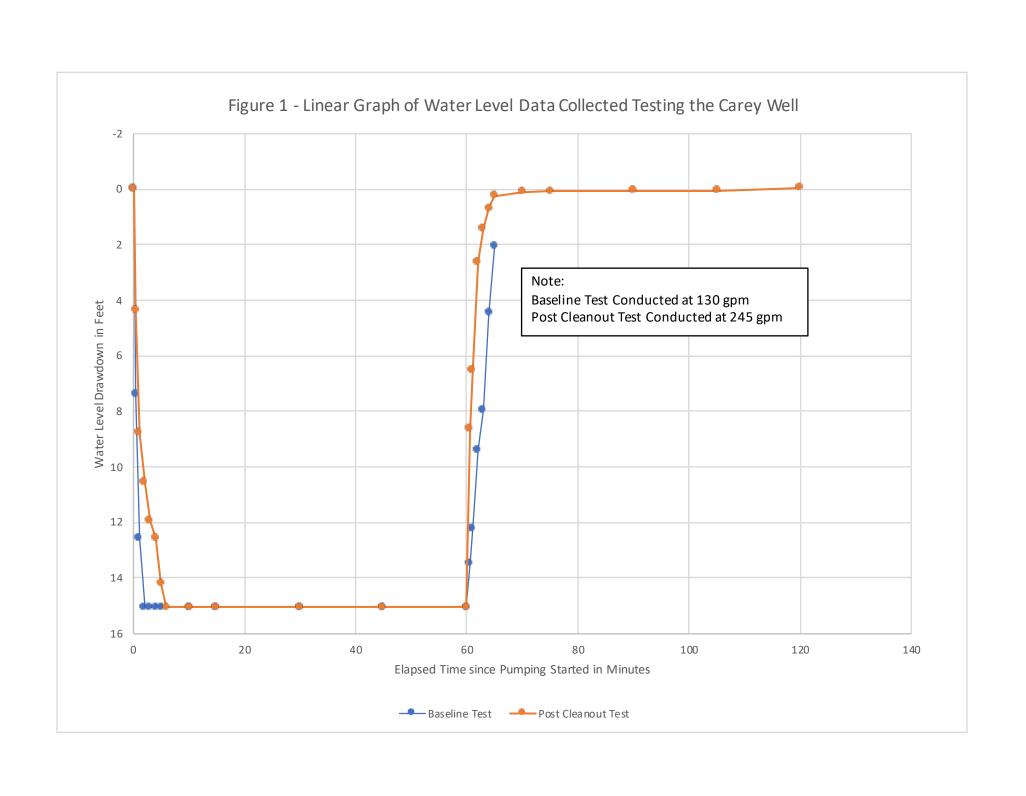
NTU - Nephrlometric Turbidity Units

mg/l - milligrams per liter

NCS - No concentration set

NS - Not Sampled

Risk Points - EPA Consensus Method Risk Factor Points



Converse Laboratories Inc.

800 Starbuck Ave. Suite B101 Watertown, NY 13601

NYS Approved ELAP ID# 10708

USPH Certified

ID# 36144

Client:

Town of Leray

Report Date:

8650 Leray St.

3/14/2024

Evans Mills, NY 13637

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:

Lath m. somny

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 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.

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:

ΚK

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

Kathan bow

Authorized Review by/Supervisor:

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.

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CONVERSE LABORATORIES, INC. 800 Starbuck Ave., Suite B101, Watertown, NY 13601

(315) 788-8388 www.converselabs.com

Chain of Custody

Page 1 of 3

Client Name:			Client Project ID / PO#:	#04/C		×	Matrix Codes	, ,	Sample Information:	mation:
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Evan	Juns Mills NY					SL=Sludge SV	SL=Sludge SW=Surface Water SO=Soil		nated UV	
Phone #: 3/5	Phone #: 315 607-0576	57b Cell #:			900	Prese	Preservative Codes	PLEASE NOTE: Reports for bus	PLEASE NOTE: Reports for businesses will be forwarded to vour DOH	rded to vour DOH.
E-Mail address	1422C	@ OANC JORR		sodu		1= Na ₂ S ₂ O ₃	2= HCl 3= H ₂ SO ₄	N/	NOTES TO LABORATORY	30RATORY
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02/05/24	(z:21	CWFD well	sife	9 5	6 W 07	2	57		Red 226/228, Gross Alber	ole-, Wraning Sul
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CONVERSE LABORATORIES, INC. 800 Starbuck Ave., Suite B101, Watertown, NY 13601

(315) 788-8388 www.converselabs.com

Chain of Custody

Page 2 of 3

Town of Lecen	ecen	Client Project ID /	ID / PC	: #0d		Ma ⊃wd	Matrix Codes DW= Drinking Water		Sample Information:	
4	8650 leray 57					GW≒Ground	GW ∺Ground Water WW ∺Wastewater	tewater	<u> </u>	
	EVANSM:115 NY 12437	·				SL=Sludge SV	SL=Sludge SW=Surface Water SO=Soil	SO=Soil	3	
	hone # 315-608-0576 Gell #		93i	ĐΛC		Prese	Preservative Codes		ses will b	
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	Kenny Krzy		шоე	səpc	jenp	4= HNO ₃	5= NaOH		Normal TAT	
) =) q	see co	iesЯ :	6= Asorbic Ac 8= Unpres.	6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=	betas		1 1
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Project Name: TOWN OF LERAY

Lab Number:

L2406557

Project Number:

AL24-0132

Report Date:

03/08/24

SAMPLE RESULTS

Lab ID:

L2406557-01

Date Collected:

02/05/24 11:53

Client ID:

T/O LERAY CWFD WELL SITE

Date Received:

02/06/24

Sample Location:

Not Specified

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 - We	stborough 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

Date Collected:

02/05/24 11:53

Client ID:

T/O LERAY CWFD WELL SITE

Date Received:

02/06/24

Sample Location:

Not Specified

Field Prep:

Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - We	stborough Lab				1,04,000	
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, Total¹	ND		ug/l	0.50		1
1,2,3-Trichloropropane	ND		ug/l	0.50		1
n-Propylbenzene	ND		ug/l	0.50	New .	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-Isopropyitoluene	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/i	0.50		1



Project Name:

TOWN OF LERAY

Lab Number:

L2406557

Project Number:

AL24-0132

Report Date:

03/08/24

Lab ID:

SAMPLE RESULTS

Date Collected:

02/05/24 11:53

Client ID:

L2406557-01

Date Received:

02/06/24

Sample Location:

T/O LERAY CWFD WELL SITE Not Specified

Field Prep:

Not Specified

Sample Depth:

Parameter

Result

Qualifier

Units

RL

MDL

Dilution Factor

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: Report Date:

L2406557 03/08/24

SAMPLE RESULTS

Result

ND

Qualifier

% Recovery

71

Lab ID:

L2406557-01

Client ID:

T/O LERAY CWFD WELL SITE

Sample Location:

Date Collected: Date Received: 02/05/24 11:53

02/06/24

Not Specified

Field Prep:

Extraction Date:

Qualifier

Extraction Method: EPA 522

Not Specified

02/28/24 15:22

Sample Depth:

Matrix:

Dw

Analytical Method: Analytical Date:

120,522 02/29/24 18:16

Analyst:

Parameter

1,4-Dioxane

Surrogate

1,4-Dioxane-d8

TPR

1,4 Dioxane by EPA 522 - Mansfield Lab

Units	RL	MDL	Dilution Factor	
ug/l	0.150		1	

Acceptance

Criteria

70-130

Project Name: TOWN OF LERAY

Project Number: AL24-0132

SAMPLE RESULTS

Lab Number: L2406557

Report Date:

03/08/24

Lab ID:

L2406557-01

Client ID:

T/O LERAY CWFD WELL SITE

Sample Location:

Not Specified

Date Collected: Date Received: 02/05/24 11:53 02/06/24

Field Prep:

Not Specified

Sample Depth:

Matrix:

Dw

Analytical Method: Analytical Date:

133,537.1 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 Lat					
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 (9CI-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-Chloroeicosafluoro-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

Lab Number:

L2406557

Project Number:

AL24-0132

Report Date:

03/08/24

SAMPLE RESULTS

Lab ID:

L2406557-01

Date Collected:

02/05/24 11:53

Client ID:

T/O LERAY CWFD WELL SITE

Date Received:

02/06/24

Sample Location:

Not Specified

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 - Mans	field 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	<u></u>	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 S	M 2340B	- Mansfield	d Lab	1.4 (1.44) (1.4) Total	e de la companya de l			en antroit i in a marin i in a contract de la contr			
Hardness	484.	MICONINGO MICONICO M	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

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

Not Specified

Date Collected: Date Received: 02/05/24 11:53

Field Prep:

02/06/24

Not Specified

Sample Depth:

Sample Location:

Matrix:

Dw

TOTAL IX									
Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough 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 Chromatog	raphy - West	borough Lab					1 To		
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 SITE

Lab ID: 35859250001

Collected: 02/05/24 11:53

Received: 02/08/24 10:25

Matrix: Drinking Water

(386)672-5668

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.1 Oxihalide IC Anions 14d	Analytical	Method: EP	A 300.1						
	Pace Anal	ytical Servic	es - Ormond E	Beach					
Chlorite Surrogates	5. 6 U	ug/L	20.0	5.6	10		02/10/24 23:08		D3
Dichloroacetate (S)	104	%	90-115		10		02/10/24 23:08	79-43-6	
300.1 Oxihalide IC Anions 28d	Analytical	Method: EPA	A 300.1						
	Pace Anal	ytical Servic	es - Ormond E	Beach					
Bromate Surrogates	2.2 U	ug/L	10.0	2.2	10		02/10/24 23:08	15541-45-4	D3
Dichloroacetate (S)	104	%	90-115		10		02/10/24 23:08	79-43-6	

516-370-6000



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 Analytical Method: EPA 505 Preparation Method: EPA 505 505 GCS Pesticides/PCBs Pace Analytical Services - Melville Alachlor <0.20 ug/L 0.20 02/12/24 17:38 02/13/24 01:46 15972-60-8 Aldrin <0.025 ug/L 0.025 02/12/24 17:38 02/13/24 01:46 309-00-2 1 gamma-BHC (Lindane) <0.020 ua/L 0.020 02/12/24 17:38 02/13/24 01:46 58-89-9 Chlordane (Technical) <0.20 ug/L 0.20 02/12/24 17:38 02/13/24 01:46 57-74-9 Dieldrin <0.050 ug/L 0.050 02/12/24 17:38 02/13/24 01:46 60-57-1 Endrin <0.010 ug/L 0.010 02/12/24 17:38 02/13/24 01:46 72-20-8 Heptachlor <0.025 ug/L 0.025 02/12/24 17:38 02/13/24 01:46 76-44-8 Heptachlor epoxide <0.020 ug/L 0.020 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 02/12/24 17:38 02/13/24 01:46 77-47-4 0.10 1 Methoxychlor <0.10 ug/L 0.10 02/12/24 17:38 02/13/24 01:46 72-43-5 1 PCB Screen < 0.40 ug/L 0.40 1 02/12/24 17:38 02/13/24 01:46 Toxaphene <1.0 02/12/24 17:38 02/13/24 01:46 8001-35-2 ug/L 1.0 1 Surrogates Tetrachloro-m-xylene (S) 104 % 56-149 1 02/12/24 17:38 02/13/24 01:46 877-09-8 Decachlorobiphenyl (S) 60-151 109 % 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 ug/L 2,4-D < 0.10 0.10 02/08/24 15:36 02/15/24 06:16 94-75-7 Dalapon <0.70 ug/L 0.70 02/08/24 15:36 02/15/24 06:16 75-99-0 Dicamba <1.0 ug/L 1.0 02/08/24 15:36 02/15/24 06:16 1918-00-9 <0.20 Dinoseb ug/L 0.20 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 02/08/24 15:36 02/15/24 06:16 93-72-1 ug/L 0.13 1 Surrogates 2,4-DCAA (S) 95 70-130 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 02/10/24 06:30 23135-22-0 Carbaryl <1.0 1.0 02/10/24 06:30 63-25-2 ug/L Surrogates BDMC (S) 70-130 02/10/24 06:30 **524.3 MSV SIM** Analytical Method: EPA 524.3 Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

0.010

<0.010

ug/L

1,2,3-Trichloropropane

02/12/24 22:13 96-18-4



516-370-6000



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
.3 MSV SIM	Analytical Metho	od: EPA 524.3						

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.3 MSV SIM	Analytical Meth	nod: EPA 524	.3					
	Pace Analytica	l Services - M	/lelville					
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	

T/O LERAY CWFD WELL SITE

SAMPLE RESULTS - 01

Serial_No:03082412:38

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

Radiochemistry by Method 900

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





















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		0.005	0	NSD	NSD	0.19	<0.19	<0.19	

T/O LERAY - CWFD Well Site; Water

Reviewed By:

B

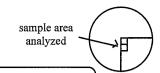
Analyzed By: Cory M. Parnell

B

Date: 2/12/2024

^{*} 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.

TEM Asbestos (Water) Count Sheet



Client Name: Converse Labs

Job #: 124021250

Lab Sample #: 01

Client Sample #:

Received: 02/07/24

Date Analyzed: 02/12/24

Volume (liters):

0.005

Filter Type / Filter Area: MCE 214 mm2

Grid Opening Size:

0.01003

Area Examined:

0.22066 mm2

Magnification: 20,000

Temp:

Accelerating Voltage: 100 KeV

Analysis Performed by:

Cory M. Parnell

12:00:00

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

NSD: No Asbestos Structures Detected

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

Comments

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





ANALYTICAL RESULTS

Project:

TOWN OF LERAY L2409540

Pace Project No.:

70288360

Sample: T/O LERAY CWFD WELL

Parameters

Date: 02/29/2024 09:43 AM

Lab ID: 70288360001

Collected: 02/05/24 11:53

Received: 02/23/24 08:00

Matrix: Drinking Water

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

02/28/24 07:47 02/28/24 16:04 7631-86-9

	NEW YORK	Service Centers		ā	Dana A						L2409540 DJL 2/22/24	
に記る	CHANGE POMEN	Natival, NJ 07430, 35 Wedney Rd, Suite 5 Abany, NY 12205; 14 Wedner Way	20		T T T	8	Date Rec'd	(; (Albea los #	
4400-1	CUSTODY	Tonawanda, WY 14150: 276 Cooper Ave, Suite 105	v. Sulle 105				2 = 1	Ŋ	て オジーング	<u>ر</u>		
Westbarough, MA 11581	Manshald, MA 02048	Project information		-		Sellivaralidas	1915				Billing Information	
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	TEL: 508-822-9300		TOWN OF LERAY	Same of the second			ASP-A		ASP-B		Same as Clent Info	
FAX: 508-898-9183	FAX. 408-422-3288						EQUIS (1 File)		M M M M M M M M M M M M M M M M M M M	A File		
Client information			AL24-0132			5 [Other	-	1		and a consideration	
Ollent: Converse C	Converse Laboratories Inc	ect name as Pro		adagadana in the state of the s		3egulati	Regulatory Requirement	ment			Disposal Sile Information	
Address: 800 Starbuc	800 Starbuck Ave Ste B101	Project Manager: Bren	Brenda Pirinelli			Ź	NY TOGS		NY Part 375	375	to sectional contest things and the	
Waterlown, NY 13601						₹ I	AWC Standards	eris	N CP-51	, 11.	applicable disposal facilities.	
Phone: 315-788-8388	38	Turn-Around Time				ž I 🗀	NY Restricted Use		5 5		THE PARTY PROPERTY.	
Fax: 315-788-9258	58	Standard V	Due Date:	ate:		ž I	NY Unrestricted Use	1.086	1		2	
Email; customer	customerservice2@conver	Rush (only If pre approved)	# of Days.	ive:		Ē	NYC Sewer Discharge	charge			ij	
These samples have been previously analyzed by Alpha	en previously analyze	ad by Alpha				ANALYSIS	12				Itration	
Other project specific requirements/comments:	requirements/comm	ients:				7						
BB METALS Sb,As,Ba,I	3e,Cd,Cr,Hg,Ni,Se,Tl,	88 METALS Sb,As,Ba,Be,Cd,Cr,Hg,Ni,Se,Ti, Al,Ca,Cu,Fe,Mn,Pb,Mg,K,Ag,Zn,Na,SIL,ICA	1,Na,SILICA			90¢	S	SUB SILICA	5	\ [2	Lab to do	
Please specify Metals or TAL	थ रहा					TC)/				EG (CE op or op	
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alive Coder. o		Westboro: Certification No: MA935	v)	8	Container Type						Discuss which which	
	A = Ambar Glass	Mansfield: Cerification No. MAO15	w)		<u> </u>	<u>a.</u>	<u>а.</u>		<u>a.</u>	n.	and completely. Samples can	
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		Relinquished By:		Date/Time	ř	le S	, , ,		3 5		start until any ambiguities are	
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HOR			2/2/2	1 1920	X .			13	277/47 038	8	HAS READ AND AGREES	
)						TERMS & CONDITIONS	
Form No.: 01-25 (nev. 30-Sept-2013)	ê		937776844									**************************************

Serial No:03042417:24

Project Name:

T/O LERAY

Lab Number:

L2410414

Project Number:

AL24-0233

Report Date:

03/04/24

SAMPLE RESULTS

Lab ID:

L2410414-01

Client ID:

T/O LERAY CWFD WELL SITE

Date Collected:

02/26/24 09:21

Date Received:

02/27/24

Sample Location:

Not Specified

Field Prep:

Not Specified

Sample Depth:

Matrix:

Dw

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

	NEW YORK	Service Centers Mahwah, NJ 07430: 35 Whitney Rd Suite 5	Suite 5	•	Page 1	1				
△ PriA	CHAIN OF	Albany, NY 12205: 14 Walker Way			₽	1	*	######################################		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	CUSTODY	Tonawanda, NY 14150: 275 Cooper Ave,	er Ave, Suite 105	05				• [e		
Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Bivd	Project Information					Deliverables	sples		Billing Information
TEL; 508-898-9220 FAX; 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	T/O LERAY				∀	ASP-A	☐ ASP-B	√ Same as Client Info
		Project Location:						EQuIS (1 File)	EQuIS (4 File)	PO#
Client Information		Project#	AL24-0233				0	Other		
Client: Converse La	Converse Laboratories Inc	(Use Project name as Project #)	ect #)				Regulat	Regulatory Requirement	Ţ	Disposal Site Information
Address: 800 Starbuc	800 Starbuck Ave Ste B101	Project Manager:	Brenda Pirinelli	ielli			N 	NY TOGS	NY Part 375	Please identify helpworten of
Watertown, NY 13601		ALPHAQuote #:					Ā	AWQ Standards	NY CP-51	applicable disposal facilities.
Phone: 315-788-8388	38	Turn-Around Time						NY Restricted Use	Other	Disposal Facility:
Fax: 315-788-9258	58	Standard 🗸	N	Due Date:	٠		Ź	NY Unrestricted Use		À C
Email: <u>customers</u>	service2@conver	customerservice2@conver Rush (only if pre approved)		# of Days:			z 🔲	NYC Sewer Discharge	96	er:
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/e Code:	Container Code P = Plastic A = Amber Glass	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	MA935 MA015		Cont	Container Type	a.			Please print clearly, legibly
C = HNO ₃ V D = H ₂ SO ₄ C E = NaOH E	V = Vial G = Glass B = Bacteria Cup				P	Preservative				 and completely. Samples can not be logged in and turnaround time clock will not
c	C = Cube	Relinquished By:		Date/Time	rime	L	Received By:	By:	Date/Time	start until any ambiguities are
	E = Encore	A. FLITCROFT		2/27/2024 1600	00					THIS COC, THE CLIENT
NaOH) = BOD Bottle									HAS READ AND AGREES
o ≕ Other										TO BE BOUND BY ALPHA'S TERMS & CONDITIONS
Form No: 01-25 (rev. 30-Sept-2013)	t-2013)									LEINING & COUNTILIOING.

	NEW YORK	Service Centers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Page 3	~	ſ	1		12			
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Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information					Deliverables	ables					Billing Information
TEL: 508-898-9220	TEL: 508-822-9300	Project Name:	TOWN OF L	OF LERAY				ASP-A			ASP-B		√ Same as Client Info
1 AA. 300-030-9193	FAX. 500-622-3260	Project Location:						EQuIS (1 File)	File)		EQuIS (4 File)	(4 File)	PO#
Client Information		Project #	AL24-0132					Other					
Client: Converse Lal	Converse Laboratories Inc	(Use Project name as Project #)	ject #)				Regula	Regulatory Requirement	quireme	nt			Disposal Site Information
Address: 800 Starbuck	800 Starbuck Ave Ste B101	Project Manager:	Brenda Pirinelli	ille				NY TOGS			NY Part 375	375	Please identify below location of
Watertown, NY 13601		ALPHAQuote #:						AWQ Standards	Idards		NY CP-51	_	applicable disposal facilities.
Phone: 315-788-8388	8	Turn-Around Time						NY Restricted Use	ted Use		Other		Disposal Facility:
Fax: 315-788-9258	8	Standard	>	Due Date:				NY Unrestricted Use	ricted Us	Φ			N [
Email: customers	ervice2@conver	customerservice2@convert Rush (only if pre approved)		# of Days:				NYC Sewer Discharge	er Discha	ığe			Other:
These samples have been previously analyzed by Alpha	en previously analyze	ed by Alpha					ANALYSIS	SIS					Sample Filtration
Other project specific requirements/comments:	equirements/comm	nents:											Done
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525.2 515, 531, 504, 505)5							OGV MM/	IΙΝ	HIN			(Please Specify below)
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MIPHA Lab ID (Itab Use Only)	Sa	Sample ID	Colle	Collection e Time	Sample Matrix	Sampler's Initials					;	*	Sample Specific Comments e
	T/O LERAY CWFD WELL SITE	VELL SITE	2/5/2024	1153A	DW	XX	1 1	_	1	×	- -	\vdash	
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ve Code:	Container Code P = Plastic A = Amber Glass	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	o: MA935 o: MA015		Cont	Container Type	<u> </u>		۵				Please print clearly, legibly
	V = Vial G = Glass B = Bacteria Cup				Ā	Preservative	B /	A D	A			***************************************	not be logged in and turnaround time clock will not
c	C = Cube O = Other	Relinquished By:	.y:	Date/Time	Time		Received By:	d By:			Date/Time	me	start until any ambiguities are resolved. BY EXECUTING
, ш	: = Encore	A. FLITCROFT		2/6/2024 1600	0								THIS COC, THE CLIENT
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	***************************************	***************************************											TERMS & CONDITIONS.
Form No: 01-25 (rev. 30-Sept-2013)	t-2013)												

\ <u>A</u> PHA	NEW YORK CHAIN OF	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite E Albany, NY 12205: 14 Walker Way	Rd, Suite 5 ay		Page 3	4 60	0	Date Rec'd	P.o			74	ALPHAJOD#	
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Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information					Delive	Deliverables					Billing Information	
TEL: 508-898-9220	TEL: 508-822-9300	Project Name:	TOWN OF L	OF LERAY			Ò	ASP-A] ASP-B		Same as Client Info	
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`		ALPHAQuote #:					Ò	AWQ Standards	ndards] NY CP-51	_	applicable disposal facilities.	
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- ALPHA Babild (Lab Use Only)	S	Sample ID	Coll	Collection a Time	Sample Matrix	Sampler's Initials		 I			Ь		Sample Specific Comments e	
	T/O LERAY CWFD WELL SITE	WELL SITE	2/5/2024	1153A	DW	츳	_	1	Ξ	-	_			
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Preservative Code: C A = None P S = HCI A	Container Code P = Plastic A = Amber Glass	Westboro: Certification No: MA93 Mansfield: Certification No: MA01	o: MA935 o: MA015		Con	Container Type	>	<u> </u>			<u> </u>		Please print clearly, legibly	
C = HNO ₃ V D = H ₂ SO ₄ G	V = Vial G = Glass B = Bacteria Cun				G.	Preservative	ď		⊲				not be logged in and turnaround time clock will not	
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CONVERSE LABORATORIES, INC.

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800 Starbuck Ave., Suite B101, Watertown, NY 13601

A. A. 24- Olstatachment	Page 1 of 3
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a.m. / p.m. Rd 126/228, Gros Alpha, Uramin Sul Sub SAMPLE(S) AS RECEIVED CONFORM TO NELAC Sub AUTHORIZED RECIPIENTS & SAMPLE ID# Sab (lab use only) 10331 STANDARDS *If no, see attached sheet Reports for businesses will be forwarded to your DOH * Report NIN 4014 **NOTES TO LABORATORY** 2015 42/5/2-507 Separately Other Sample Information: Metals -see attached Raw Whate/Nitrite Date Needed: PFOM - M-533 Dug ≥ **ANALYSIS / TEST** REQUESTED Truchichity Fr Bact Initial Review: Chlorida Coliforn oN/SS) SQS ICED? Chlorinated Normal TAT Finished Rush TAT PLEASE NOTE: Drilled Rec'd Temp° 40 N/A Subconfracted SAMPLE PHWAS < 20 1333 Time 1315 SL=Sludge SW=Surface Water SO=Soil List Preservative Code Below GW=Ground Water WW=Wastewater CHECKED 21544 1= Na₂S₂O₃ 2= HCl 3= H₂SO₄ Preservative Codes DW= Drinking Water 9 X **Matrix Codes** 6= Asorbic Acid 7= NH₄CL 12/5/24 Date 2 5= NaOH 4 X Amt. Paid: က 8= Unpres. 4≈ HNO₃ N Received by: G 60 07 X 70. 10 6 10. G 600 107 19 Б. Chlorine Residual G 6W .07 G 00 <u>S</u>€ G GE <u>B</u> SE CE <u>કુ</u> see coqes spone Client Project ID / PO# 5 Grab C = Composite Time www.converselabs.com CWFD well site CWFD well site 1.5 well site Site Sample Identification site CANFD Well site Ste CWFD wall site Amt. Due: CW FD well 7-5-34 ANC OCA CWFD DEL CW FD well Date Cell #: /WFD own of lect Thoma # 315 408-0576 (315) 788-8388 Contact/Report to: Kalh Jan 5 M2/15 Relinquished by: Collected 12:17 Time E-Mail address/1/122 11:53 12:14 # 28 # 13:16 02/05/24 12:18]:K 13:11 (A:2) 02/05/M | ht/50/c0 03/05/24 140/50/00 02/06/24 Client Address: Collected he/50/e0 he/50/e0 92 /05/24 Sampler: Date Doc. # 357 1/2/2024

Final Review: Transcriptual Rev.:

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Check#

Cash

Rev. # 118

CONVERSE LABORATORIES, INC. 800 Starbuck Ave., Suite B101, Watertown, NY 13601

(315) 788-8388 www.converselabs.com

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Sample	Drilled Dug	Finished 🗹 Raw	Chlorinated UV	PLEASE NOTE: Reports for businesses will be forwarded to vour DOH	NOTES TO LABORATORY	Normal TAT	Rush TAT Date Needed	ANALYSI	Achartes 1	5 4 6 5 6 M		L .	1000	Dissolved O.		Am monie	(olar loder	TDS TEMO	ICED?	(es) No	T	SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS *If no, see attached sheet	CU/ CU/ Initial Review: (-05	
Matrix Codes	CHINNING WATER	GW≕Ground Water WW≕Wastewater	SL=Sludge SW=Surface Water SO=Soil	Preservative Codes Re	2= HCI 3= H,504			List Preservative Code Below Co							×		SAMPLE Ph WAS <2.0	CKED 2/8/24 (333	Date Time	2/5/24 1315	\vdash			
Mat	2	GW ≕Ground V	SL≕Sludge SW	Preser	1= Na ₂ S ₂ O ₃	4= HNO ₃	6= Asorbic Acid 7= NH ₄ CL 8= Unpres. 9=	List Preserv		26	2	2	7 7	7	2	7 K	_	CHEC	Received by:	usi Shelle			Amt. Paid:	ည
ID / PO#:					oqe s	səpc	oo əəs	G = Gral Matrix -	SE SE	70. WB 2	G GW ,07	G GW 07		G GW .07	G GW .07	G GW .07	G GW 07		Rece	Janus				Check#
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	Z -	404	(243)	। दि⊕ #;	ANC, Ord	Kry		Sample Identification	CWFD well site	CWFD well site	CWFD well site	CWFD Well Site	CWFD Well site	CWFD well site	CWFD Well site	CWFD Well site	CWFD well	CIUFD WELL STE	Date	JS.34			Amt. Due:	Cash
7. 5 A 1000	3 2 2 2 2	8650 Lecey 37	M=113 NG	Phone #: 31 5-60 8-0576	9	7		Time Collected		12:27 CH	12:28 (U	12:29 CW	12:33 CW	12:38 CW	12:40 CW		12:44 CW	12:44 (1)	Relinquished by:	They want			A CALL TO THE THE THE THE THE THE THE THE THE THE	
Client Name:	Client Address:		50MUS	Phone #: 31 5-C	E-Mail address:	Contact/Report to: Kenn	Sampler:	Date Collected (1 12/00/20	०२/०२/ १	1 रह/डेव ह	02/05/24 10	1 100/00	1 48/20/60	02/05/24 12:42	1 105/31 1	02/05/24 10	Reling	The same of the sa			Doc. # 357 1/2/2024	Rev. # 118

H24-0233

Chain of Custody

800 Starbuck Ave., Suite B101, Watertown, NY 13601

CONVERSE LABORATORIES, IN

		Finished Raw	Chlorinated	il OTHER:	REPORT TO DOH: Yes No Initials	NOTES TO LABO	Normal TAT		npcon	SIMIL NEW LEST ED	Tannin / Linning 1822	19mg				Rec'd CED? AUTHORIZED RECIPIENTS &	7 9.5 (As)/No	ASRE	(E) STANDARDS NO		Transcriptual Rev.:
Cham of Custody	Cilent Project ID / PU#: Matrix Codes	DW= Drinking Water	GW=Ground Water WW=Wastewater	SL=Sludge SW=Surface Water SO=Soil		1= Na ₂ S ₂ O ₃ 2= HCl 3= 4= HNO ₃ 5= NaOH	boo e	∟ Ne R	EX DESCRIPTION OF THE PROPERTY	5.7	t la we le					Received by: Date Time	Helden slabelst	7		Amt. Paid:	Check# CC
(315) 788-8388 www.converselabs.com	Town of prays	Client Address: 4/5/10	M. M. L.	3	E-Mail address: 1/4	Contact/Report to: Knn. Knn.	4	Dofe	Ö	L' 112 1 OFW MAKER HE SEC						Relinquished by: Date Time	How Signed and 437Am		Doc # 257	6/1/2016 Amt. Due:	Page 1 of 1 Cash

BC Group OR Theray

Proposed Laboratory Testing Parameters - Carey Well Site LeRay, New York T. Ler Ray

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Parameter	Units			
На .	S.U.	Х	NCS	
Temperature	Deg. C	Х	NCS	
Specific Conductance	us/cm	Х	NCS	
Odor	TON	Х	3	
Total Dissolved Solids	mg/l	Х	500	
Apparent Color (Total and Dissolved)	Apparent C	Х	15	
Turbidity (Total and Dissolved)	NTU	Х	NCS	
Chloride	mg/l	Х	250	
Fluoritie	mg/l	Х	2.2	
Sulfate	mg/l	Х	250	
Alkalinty (as CaCO3)	mg/l	Х	NCS	
Antimony	mg/l	Х	0.006	
Arsenic	mg/l	Х	0.01	
Barjum	mg/l	X	2	
Beryllium	mg/l	X	0.004	
Cadmiun	mg/l	X	0.005	
Calcium	mg/l	X	NCS	
Chronium	mg/l	X	0.1	
-tron (Total & Dissolved)	mg/l	X	0.3	
tead	mg/l	X	0.015	
Magnesium	mg/l	X	NCS	
-Mangánese	mg/l	X	0.3	
Mereury	mg/l	X	0.002	
Nickel	mg/l	X	0.002	
Potassium	mg/l	X	NCS	
Selenium	mg/l	X	0.05	
-Silvér	mg/l	X	NCS	
Sodium	mg/l	X	250	
- Thatfium	mg/l	X	0.002	
	mg/l	X	5	
Zipc Total Hardness	mg/l	X	NCS	
The state of the s		X	0.05	
Aluminum	mg/l mg/l	X	1	
Copper	mg/l	X	10	
Nitrete		X	1	
Nitrite	mg/l mg/l	X	0.2	
Cyarlide Total Coliform Bacteria	col/100 ml	X	0.2	
		^		
Volatile Organic Compounds	ug/l		various 10	
Total PFAS Synthetic Organic Compounds	ng/l		various	
	ug/l		various 1	
1,4-Dioxane Gross Alpha	ug/l		15	
Uranium	pCi/l		30	
Radium 226	Pci/I		5	
Raciam 226	pCi/l		5	
Radium 228	pCi/l			
Pereniorate	ug/l		0.8	
Silicon Dioxide (Silica)				
Tannic Acid - N Sulmout?				
Tannic Acid ~ N WWW.				

Tignis

Notes:

S.U. - Standard Units

Dissolved Oxygen
Bacterial fron
Asbestos
Bromate
Chlorite
Hydrogen Sulfide

TON - Threshold Odor Number

NTU - Nephrlometric Turbidity Units

mg/i - milligrams per liter

NCS - No concentration set

NS - Not Sampled

Risk Points - EPA Consensus Method Risk Factor Points

CONVERSE LABORATORIES, INC.

800 Starbuck Ave., Suite B101, Watertown, NY 13601

Chain of Custody

of D Page 1

(315) 788-8388	8 www.converselabs.com	abs.com				<u> </u>		Page 1	of _d_
Client Name:		Client Project II) / PO# :		Matrix Codes	Se	Sar	Sample Information:	tion:
to UMO	eculy				DW = Drinking Water	ater	Drilled	Bnd □	
	evay 3			5	GW ≕Ground Water WW =Wastewater	=Wastewater	Finished	Z Raw	Other
Evans Mills A	NY 13637			SL	SL=Sludge SW=Surface Water SO=Soil		Chlorinated	<u>\$</u>	
Phone #: 315 607 - 0576	SP Cell#;		<u> </u>		Preservative Codes		PLEASE NOTE: Reports for businesses will be forwarded to your DOH	vill be forwarde	d to your DOH.
E-Mail address大化しての	DANC JORR		sodi		1= Na ₂ S ₂ O ₃ 2= HCi 3=	3= H,SO ₄	ION	NOTES TO LABORATORY	RATORY
Contact/Report to:	Krow				4= HNO ₃ 5= NaOH	+	Normal TAT		
Sampler:					6= Asorbic Acid 7= NH_4CL 8= Unpres. 9=	Biologica de la place de la pl	Rush TAT	☐ Date Needed:	a.m. / p.m.
	-		era = - xiris	nirold L	st Preservative		ANALYSIS / TEST	/ TEST	SAMPLE ID #
Collected Collected	Sample Identification	cation	╬))	2 3 4 5	6 / 8 6	REQUESTED	TED	(iab use oniy)
02/05/ar 11:53	CWFD Well	site	G 6W	70.			PFDA-M-533	533	10378W
03/05/24 11:58	CWFD wel	well site	G 6W	20.			SCCs		140181
13:11	CWFD well	well site	m9 5	× 20			Coliforn		15/04/
02/05/24 12:11	(WFD well	well site	МĐ	X 20"			Fr Bact	. +	1 Fe TC
02/05/24 12:14	Well	site	G 6W	70.	×		Metals reeattaned	Tee attack	
02/05/24 12:16	CWFD well :	site	GW	20.			Ditate/Ditate	J.tr. te	73
71:21 re/50/60	CW FD well	site	G 6W	20°	CARADI E DH WAS 20 D	WAS 20 0		7	5/033.
02/05/24 12:18	CWFD Well	site	G 6W	70.	CHECKED 25/44	2/5/24 1333		_ a	Sub
02/08/24 12:21	CWFD well	sife	G 6W	20'		57	Red 126/228, Gross Alpha	Gross Aloh	er, Wragain Su
Relinquished by:	Date	Time	Re	Received by:	y: Date	Time	Rec'd ICED?	AUTHO C	AUTHORIZED RECIPIENTS & CONTACT INFO.
General Solling	12-52H	1:15	Jami	Sul	16 215/24	1315	8-9/ No	* '	Report NIN
							SAMPLE(S	s) AS RECEIVED	SAMPLE(S) AS RECEIVED CONFORM TO NELAC
							STAI	NDARDS *If no, { YES	STANDARDS *If no, see attached sheet YES NO
Doc. # 357 1/2/2024	Amt. Due:				Amt. Paid:		Initial Review:	2	11/ 12/5/24
Rev. # 118	Cash		Check#		20	- Control of the Cont	Transcriptual Rev.: Final Review:	W: KMB	3 3 (14 ha-

Serial_No:03192415:38

Project Name:

T/O LERAY

Lab Number:

L2414033

Project Number: AL24-0309

Report Date:

03/19/24

SAMPLE RESULTS

Lab ID:

L2414033-01

Client ID:

T/O LERAY CWFD WELL SITE WD2

Date Collected: Date Received: 03/12/24 12:53

03/16/24 12:03

03/14/24

Sample Location:

Not Specified

Field Prep:

Not Specified

44,300.0

CVN

Sample Depth:

Matrix:

Chloride

Dw

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
nions by Ion Chrom	natography - Wes	sthorough L	ah	THE STREET SAME THE STREET	S. course de l'anner, delication					

10

5.00

mg/l



Serial_No:03282415:17

Project Name: T/O LERAY

AL24-0366

Lab Number:

L2416443

Project Number:

Report Date:

03/28/24

Lab ID:

L2416443-01

Client ID:

T/O LERAY CWFD

Sample Location:

CWFD

Date Collected: Date Received:

03/26/24 10:22 03/26/24

Field Prep:

Not Specified

Sample Depth:

Matrix:

Dw

Analytical Method: Analytical Date:

133,537.1 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 Lal	b				
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 (9CI-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

SAMPLE RESULTS

Surrogate	% Recovery	Acceptance Qualifier 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	



Serial_No:03282415:17

Project Name:

T/O LERAY

Lab Number:

L2416443

Project Number:

AL24-0366

Report Date:

03/28/24

Lab ID:

L2416443-02

Client ID:

FIELD BLANK

Sample Location:

Date Collected: Date Received: 03/26/24 10:22 03/26/24

CWFD

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 Lal	þ				
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 (9CI-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

SAMPLE RESULTS

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: Project Number: T/O LERAY AL24-0366

Report Date:

03/28/24

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



Lab Number:

Report Date:

L2416443 03/28/24

Collection Date/Time

Sample Location

Matrix ΜO ΜO

T/O LERAY CWFD

Client ID

Alpha Sample ID

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

Project Name:

FIELD BLANK

L2416443-02 L2416443-01

CWFD CWFD

Receive Date

03/26/24 10:22

03/26/24 10:22

03/26/24 03/26/24

Project Name:

T/O LERAY

Lab Number:

L2416443

Project Number: AL24-0366

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.



Serial_No:03282415:17

Project Name:

T/O LERAY

Lab Number:

L2416443

Project Number: AL:

AL24-0366

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





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

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Project Name: T/O LERAY Project Number: AL24-0366 Custody Seal Absent Cooler

Cooler Information

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



Serial_No:03282415:17 **Lab Number:** L2416

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 (PFSAs)		
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
1H,1H,2H,2H-Perfluorododecanesulfonic Acid 1H,1H,2H,2H-Perfluorodecanesulfonic Acid 1H,1H,2H,2H-Perfluorooctanesulfonic Acid 1H,1H,2H,2H-Perfluorohexanesulfonic Acid	10:2FTS 8:2FTS 6:2FTS 4:2FTS	120226-60-0 39108-34-4 27619-97-2 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
	. Paga nagaga ay kan naga Kadi	一一一一。 [編集 76] [1] "是第] [1] "是第] 计 1等的数字句 (14) [2] 第4]
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS	UEDO DA	
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-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6
Honalidoro-o,o-bioxalieptanoio Aoid	THE DIVI	101112 00 0

Project Name:

Project Number: AL24-0366

T/O LERAY

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:

Project Number: AL24-0366

T/O LERAY

Project Name:

T/O LERAY

Lab Number:

L2416443 03/28/24

Project Number: AL24-0366 **Report Date:**

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

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

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.

DU Report - No QC Report Format:



Project Name:T/O LERAYLab Number:L2416443Project Number:AL24-0366Report Date:03/28/24

Footnotes

- 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, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benza(b)fluoranthene, Benza(j)+(k)fluoranthene, Benza(e)pyrene, Benza(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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.



Project Name: AL24-0366

Project Number:

T/O LERAY

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.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- \mathbf{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.)



Project Name:

T/O LERAY

Project Number: AL

AL24-0366

Lab Number:

L2416443

Report Date:

03/28/24

REFERENCES

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.



Serial_No:03282415:17

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 20

Published Date: 6/16/2023 4:52:28 PM

Page 1 of 1

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: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethyltoluene, Azoben

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: AI, 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: AI, 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.

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CONVERSE LABORATORIES, INC.

800 Starbuck Ave., Suite B101, Watertown, NY 13601

Chain of Custody

AL24-0366

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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: Report Date: AL24-0309 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



L2414033 03/19/24

Lab Number: Report Date:

T/O LERAY Project Name:

AL24-0309 Project Number: Client ID

Matrix T/O LERAY CWFD WELL SITE DW WD2

L2414033-01

Alpha Sample ID

Sample Location

Not Specified

Collection Date/Time

Receive Date

03/12/24 12:53

03/14/24

Page 2 of 13

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.



Serial_No:03192415:38

Project Name:

T/O LERAY

Lab Number: Report Date:

L2414033

Project Number:

AL24-0309

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.

Siffani Morrissey-Tiffani Morrissey

Authorized Signature:

Title: Technical Director/Representative

Date: 03/19/24



INORGANICS & MISCELLANEOUS





T/O LERAY Project Name:

Project Number: AL24-0309

Sample Receipt and Container Information

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

Serial_No:03192415:38

Were project specific reporting limits specified?

YES

Cooler Information Cooler

Custody Seal

Absent

Container Information

Container ID Container Type

Plastic 250ml unpreserved

L2414033-01A

Initial Final Temp pH pH deg C Pres Seal Cooler

CL-300(28)

Absent

4.2

4

Analysis(*)

Frozen Date/Time

Project Name:T/O LERAYLab Number:L2414033Project Number:AL24-0309Report Date:03/19/24

GLOSSARY

Acronyms

LOD

LOO

MS

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.)

FDI. - Estimated Detection Limit: This value represents the level to which target analyte concentrations.

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.

 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.

- 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.)

 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.

- 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.

 $NDPA/DPA \quad \text{- N-Nitrosodiphenylamine.}$

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.



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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, Benzo(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.
- 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).
- 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.
- 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.
- 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.



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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.
- 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.)



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REFERENCES

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.



Serial_No:03192415:38

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 20

Published Date: 6/16/2023 4:52:28 PM

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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: lodomethane (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, SM4500P-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 II, 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.

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