

*Compliance Designs*

**CLIENT:** Alpine Water GMBH  
Obertraun 311  
4831 Obertraun Austria

**DATE OF REPORT:** Quarter 3, 2024  
**REPORT #:** 1108-014  
**LABORATORY ID#:** 42209

**NOTE:** “\*” indicates that maximum levels have been exceeded, or in the case of pH, is either too high or too low  
“ND” indicates that none of this analyte has been detected at or above the specified detection level  
“MCL” indicates maximum contaminant level as established by US FDA for bottled water  
“RL” indicates laboratory reporting limit for method  
Units results are reported in mg/L unless otherwise noted

ANALYSIS PERFORMED	MCL <sup>1</sup> (mg/L)	RL (mg/L)	ARTESIAN FINISHED PRODUCT (Produced from Dachstein Artesian Well, 5 Gallon) 1108-014 (mg/L)
<b>Primary Inorganics</b>			
Antimony	0.006	0.001	ND
Arsenic	0.01	0.001	ND
Asbestos	7 MFL	0.19	ND
Barium	2	0.001	0.0084
Beryllium	0.004	0.001	ND
Cadmium	0.005	0.001	ND
Chromium	0.1	0.001	ND
Cyanide	0.2	0.005	ND
Fluoride	See endnote <sup>2</sup>	0.10	ND
Lead	0.005	0.001	ND
Mercury	0.002	0.0002	ND
Nickel	0.1	0.001	ND
Nitrate – N	10	0.10	0.35
Nitrite – N	1.0	0.10	ND
Total Nitrate & Nitrite – N	10	0.10	0.35
Selenium	0.05	0.005	ND
Thallium	0.002	0.001	ND
<b>Secondary Inorganics</b>			
Alkalinity	--	5	96.2
Aluminum	0.2	0.010	ND
Boron	--	0.05	ND
Bromide	--	0.005	ND
Calcium	--	0.5	18.4
Chloride	250 <sup>3</sup>	0.1	0.12
Copper	1	0.005	ND
Corrosivity	--	--	-0.52
Electrical Conductivity	-- umho/cm	10	160
Foaming Agents (MBAS)	--	0.1	ND
Hardness, Total	--	10	85.1
Iron	0.3 <sup>3</sup>	0.050	ND
Magnesium	--	0.5	9.5
Manganese	0.05 <sup>3</sup>	0.001	ND
pH	See endnote <sup>4</sup>	0.1	7.95
Phenol	0.001	0.001	ND
Potassium	--	1.0	ND
Silver	0.1	0.001	ND
Sodium	--	0.5	ND
Sulfate	250	0.2	1.66
TDS	500 <sup>3,5</sup>	10	84
Zinc	5 <sup>3</sup>	0.005	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	ARTESIAN FINISHED PRODUCT (Produced from Dachstein Artesian Well, 5 Gallon) 1108-014 (mg/L)
<b>Physical</b>			
Color	15 <sup>3</sup> CU	5	ND
Odor	3 <sup>3</sup> TON	1	ND
Turbidity	5 NTU	0.10	ND
<b>Microbiological</b>			
Total Coliform	Absence	1	ND
<b>Radiologicals</b>			
Gross Alpha	15 pCi/L	2.59	ND
Gross Beta	50 pCi/L <sup>5</sup>	1.64	ND
Radium 226/228	5 pCi/L	0.834/0.653	ND / ND
Uranium	0.030	0.001	ND
Radon	-- pCi/L	51.2	ND
<b>Volatile Organic Compounds EPA 524.2:</b>			
Total Trihalomethanes	0.080	0.0005	ND
Benzene	0.005	0.0005	ND
Bromobenzene	--	0.0005	ND
Bromochloromethane	--	0.0005	ND
Bromodichloromethane	--	0.0005	ND
Bromoform	--	0.0005	ND
Bromomethane	--	0.0005	ND
n-Butylbenzene	--	0.0005	ND
sec-Butylbenzene	--	0.0005	ND
tert-Butylbenzene	--	0.0005	ND
Carbon Tetrachloride	0.005	0.0005	ND
Chloroethane	--	0.0005	ND
Chloroform	--	0.0005	ND
Chloromethane	--	0.0005	ND
o-Chlorotoluene	--	0.0005	ND
p-Chlorotoluene	--	0.0005	ND
Chlorodibromomethane	--	0.0005	ND
Dibromomethane	--	0.0005	ND
o-Dichlorobenzene	0.6	0.0005	ND
m-Dichlorobenzene	--	0.0005	ND
p-Dichlorobenzene	0.075	0.0005	ND
Dichlorodifluoromethane	--	0.0005	ND
1,1-Dichloroethane	--	0.0005	ND
1,2-Dichloroethane	0.005	0.0005	ND
1,1-Dichloroethylene	0.007	0.0005	ND
cis-1,2-Dichloroethylene	0.07	0.0005	ND
trans-1,2-Dichloroethylene	0.1	0.0005	ND
1,2-Dichloropropane	0.005	0.0005	ND
1,3-Dichloropropane	--	0.0005	ND
2,2-Dichloropropane	--	0.0005	ND
1,1-Dichloropropene	--	0.0005	ND
cis-1,3-Dichloropropene	--	0.0005	ND
trans-1,3-Dichloropropene	--	0.0005	ND
Ethylbenzene	0.7	0.0005	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	ARTESIAN FINISHED PRODUCT (Produced from Dachstein Artesian Well, 5 Gallon) 1108-014 (mg/L)
<b>EPA 524.2 continued:</b>			
Hexachlorobutadiene	--	0.0005	ND
Isopropylbenzene	--	0.0005	ND
p-Isopropyltoluene	--	0.0005	ND
Methyl tert-Butyl Ether (MTBE)	--	0.0005	ND
Methylene Chloride (Dichloromethane)	0.005	0.0005	ND
Monochlorobenzene	0.1	0.0005	ND
Naphthalene	--	0.0005	ND
n-Propylbenzene	--	0.0005	ND
Styrene	0.1	0.0005	ND
1,1,1,2-Tetrachloroethane	--	0.0005	ND
1,1,2,2-Tetrachloroethane	--	0.0005	ND
Tetrachloroethylene	0.005	0.0005	ND
Toluene	1	0.0005	ND
1,2,3-Trichlorobenzene	--	0.0005	ND
1,2,4-Trichlorobenzene	0.07	0.0005	ND
1,1,1-Trichloroethane	0.2	0.0005	ND
1,1,2-Trichloroethane	0.005	0.0005	ND
Trichloroethylene	0.005	0.0005	ND
Trichlorofluoromethane	--	0.0005	ND
1,2,3-Trichloropropane	--	0.0005	ND
1,2,4-Trimethylbenzene	--	0.0005	ND
1,3,5-Trimethylbenzene	--	0.0005	ND
Vinyl Chloride	0.002	0.0005	ND
m+p-Xylenes	--	0.0005	ND
ortho-Xylene	--	0.0005	ND
Total Xylene	10	0.0005	ND
<b>Add'l Organics</b>			
<b>EPA 504.1:</b>			
1,2-Dibromoethane	0.00005	0.00002	ND
1,2 Dibromo-3-chloropropane	0.0002	0.00002	ND
1,2,3-Trichloropropane	0.00003	0.00002	ND
<b>EPA 508.1:</b>			
Chlordane (alpha and gamma)	0.002	0.0002	ND
Total PCBs	0.0005	0.0005	ND
Toxaphene	0.003	0.001	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	ARTESIAN FINISHED PRODUCT (Produced from Dachstein Artesian Well, 5 Gallon) 1108-014 (mg/L)
<b>EPA 515.4:</b>			
2,4-D	0.07	0.0001	ND
Dalapon	0.2	0.001	ND
Dicamba	--	0.0002	ND
Dinoseb	0.007	0.0002	ND
Pentachlorophenol	0.001	0.00004	ND
Picloram	0.5	0.0001	ND
2,4,5-TP (Silvex)	0.05	0.0002	ND
<b>EPA 525.2:</b>			
Alachlor	0.002	0.0002	ND
Aldrin	--	0.0001	ND
Atrazine	0.003	0.0001	ND
Benzo(a)Pyrene	0.0002	0.00002	ND
Butachlor	--	0.0001	ND
Di(2-ethylhexyl)Adipate	0.4	0.0006	ND
Di(2-ethylhexyl)Phthalate	0.006	0.0006	ND
Dieldrin	--	0.0001	ND
Endrin	0.002	0.00001	ND
Heptachlor	0.0004	0.00004	ND
Heptachlor Epoxide	0.0002	0.00002	ND
Hexachlorobenzene	0.001	0.0001	ND
Hexachlorocyclopentadiene	0.05	0.0001	ND
Lindane	0.0002	0.00002	ND
Methoxychlor	0.04	0.0001	ND
Metolachlor	--	0.0001	ND
Metribuzin	--	0.0001	ND
Propachlor	--	0.0001	ND
Simazine	0.004	0.00007	ND
<b>EPA 531.2:</b>			
Aldicarb (TEMIK)	--	0.001	ND
Aldicarb sulfone	--	0.0016	ND
Aldicarb sulfoxide	--	0.001	ND
Carbaryl	--	0.001	ND
Carbofuran (FURADAN)	0.04	0.0009	ND
3-Hydroxycarbofuran	--	0.001	ND
Methomyl	--	0.001	ND
Oxamyl (VYDATE)	0.2	0.002	ND
<b>EPA 547:</b>			
Glyphosate	0.7	0.006	ND
<b>EPA 548.1:</b>			
Endothall	0.1	0.009	ND
<b>EPA 549.2:</b>			
Diquat	0.02	0.0004	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	ARTESIAN FINISHED PRODUCT (Produced from Dachstein Artesian Well, 5 Gallon) 1108-014 (mg/L)
<b>EPA 1613:</b> 2,3,7,8-TCDD (DIOXIN)	3x10 <sup>-8</sup>	5.0x10 <sup>-9</sup>	ND
<b>Disinfection Byproducts</b>			
<b>EPA 300.1:</b> Bromate	0.010	0.001	ND
<b>EPA 300.1B:</b> Chlorite	1.0	0.010	ND
<b>EPA 552.3:</b>			
Dibromoacetic acid	--	0.001	ND
Dichloroacetic acid	--	0.001	ND
Monobromoacetic acid	--	0.001	ND
Monochloroacetic acid	--	0.002	ND
Trichloroacetic acid	--	0.001	ND
Haloacetic Acids, Total	0.060	0.001	ND
<b>EPA 524.2:</b>			
Total Trihalomethanes	0.080	0.0005	ND
Bromodichloromethane	--	0.0005	ND
Bromoform	--	0.0005	ND
Chloroform	--	0.0005	ND
Chlorodibromomethane	--	0.0005	ND
<b>Residual Disinfectants</b>			
<b>SM4500-CL G:</b>			
Residual Chlorine, Total	4.0	0.05	ND
Chloramines	4.0	0.05	ND
<b>SM4500-CIO2-D:</b>			
Chlorine Dioxide	0.8	0.1	ND
<b>Miscellaneous</b>			
<b>EPA 331.0:</b>			
Perchlorate	--	0.0005	ND

EPA approved methods were used in all of the analyses and a listing is available upon request. These test results may be used for compliance purposes as required.

<sup>1</sup> The EPA, some State agencies and/or the IBWA may have established alternate MCLs for some of these analytes. Please refer to Federal, State and Industry codes.

<sup>2</sup> Fluoride MCL is determined by annual average of maximum daily air temperatures where the bottled water is sold. Refer to tables found in 21 CFR 165. The MCL for bottled water to which Fluoride has been added is 0.7 mg/L.

<sup>3</sup> Mineral water is exempt from allowable levels per 21 CFR 165.110(b)(3) and (4). The exemptions are aesthetically based allowable levels and do not relate to a health concern.

<sup>4</sup> MCL established by US FDA for waters that meet the US FDA definition of "Purified" is 5-7 pH Units per the USP XXIII Standards, as referenced in 21 CFR 165.

<sup>5</sup> The bottled water shall not contain beta particle and photon radioactivity from man-made radionuclides in excess of that which would produce an annual dose equivalent to the total body or any internal organ of 4 millirems per year calculated on the basis of an intake of 2 liters of the water per day (= 50 pCi/L).



Burlington, WA *Corporate Laboratory (a)*  
1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400  
Bellingham, WA *Microbiology (b)*  
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*  
9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802  
Corvallis, OR *Microbiology/Chemistry (d)*  
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946  
Bend, OR *Microbiology (e)*  
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

August 27, 2024

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Alpine Water GMBH  
Obertraun 311  
Obertraun, na 4831

RE: 24-21765 - 1108-014 - 50 State Product

Dear Project Manager,

Your project: 1108-014 - 50 State Product, was received on Thursday July 25, 2024.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

A handwritten signature in blue ink that reads "Lawrence J Henderson". The signature is fluid and cursive, with a long, sweeping tail on the final letter.

Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA Corporate Laboratory (a)  
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400  
 Bellingham, WA Microbiology (b)  
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR Microbiology/Chemistry (c)  
 9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802  
 Corvallis, OR Microbiology/Chemistry (d)  
 1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946  
 Bend, OR Microbiology (e)  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

## BOTTLED WATER STANDARD OF QUALITY REPORT

Client Name: Alpine Water GMBH  
 Obertraun 311  
 Obertraun, na 4831

Reference Number: **24-21765**

Authorized by:

Lawrence J Henderson, PhD  
 Director of Laboratories, Vice President

Project: 1108-014 - 50 State Product

Field ID: 1108-014

Sample Description: Artesian Finished Product Line:

Sampled By:

Sample Date: 07/29/2024

Lab Number: 42209

Report Date: 08/27/2024

Sampled Comment: 5G

Approved By: anp,bj,ma,mcs,pdm

### Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
57-12-5	CYANIDE	ND	0.2	0.005	mg/L	OIA-1677-DW	a	
7440-36-0	ANTIMONY	ND	0.006	0.001	mg/L	200.8	a	
7440-38-2	ARSENIC	ND	0.010	0.001	mg/L	200.8	a	
7440-39-3	BARIUM	0.0084	1.0	0.001	mg/L	200.8	a	
7440-41-7	BERYLLIUM	ND	0.004	0.001	mg/L	200.8	a	
7440-43-9	CADMIUM	ND	0.005	0.001	mg/L	200.8	a	
7440-47-3	CHROMIUM	ND	0.05	0.001	mg/L	200.8	a	
16984-48-8	FLUORIDE	ND	2	0.10	mg/L	300.0	a	
7439-92-1	LEAD	ND	0.005	0.001	mg/L	200.8	a	
7439-97-6	MERCURY	ND	0.001	0.0002	mg/L	245.1	a	
7440-02-0	NICKEL	ND	0.1	0.001	mg/L	200.8	a	
14797-55-8	NITRATE-N	0.35	10	0.10	mg/L	300.0	a	
14797-65-0	NITRITE-N	ND	1.0	0.10	mg/L	300.0	a	
E-10128	TOTAL NITRATE+NITRITE as N	0.35	10	0.10	mg/L	300.0	a	
7782-49-2	SELENIUM	ND	0.010	0.005	mg/L	200.8	a	
7440-28-0	THALLIUM	ND	0.002	0.001	mg/L	200.8	a	

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.  
 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
 MRL - Method Reporting Limit .

If you have any questions concerning this report contact us at the above phone number.

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
7429-90-5	ALUMINUM	ND	0.2	0.010	mg/L	200.7	a	
16887-00-6	CHLORIDE	0.12	250	0.1	mg/L	300.0	a	
7440-50-8	COPPER	ND	1.0	0.005	mg/L	200.8	a	
7439-89-6	IRON	ND	0.3	0.050	mg/L	200.7	a	
7439-96-5	MANGANESE	ND	0.05	0.001	mg/L	200.8	a	
7440-22-4	SILVER	ND	0.025	0.001	mg/L	200.8	a	
14808-79-8	SULFATE	1.66	250	0.2	mg/L	300.0	a	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	84	500	10	mg/L	SM2540 C	a	
7440-66-6	ZINC	ND	5.00	0.005	mg/L	200.8	a	

**Notation:**

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Volatile Organic Chemicals (VOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
75-35-4	1,1 - DICHLOROETHYLENE	ND	2	0.5	ug/L	524.2	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND	30	0.5	ug/L	524.2	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND	5	0.5	ug/L	524.2	a	
107-06-2	1,2 - DICHLOROETHANE	ND	2	0.5	ug/L	524.2	a	
78-87-5	1,2 - DICHLOROPROPANE	ND	5	0.5	ug/L	524.2	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	ND	9	0.5	ug/L	524.2	a	
71-43-2	BENZENE	ND	1	0.5	ug/L	524.2	a	
56-23-5	CARBON TETRACHLORIDE	ND	2	0.5	ug/L	524.2	a	
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND	70	0.5	ug/L	524.2	a	
156-60-5	TRANS - 1,2 - DICHLOROETHYLENE	ND	100	0.5	ug/L	524.2	a	
100-41-4	ETHYLBENZENE	ND	700	0.5	ug/L	524.2	a	
75-09-2	DICHLOROMETHANE	ND	3	0.5	ug/L	524.2	a	
108-90-7	MONOCHLOROBENZENE	ND	50	0.5	ug/L	524.2	a	
95-50-1	O - DICHLOROBENZENE	ND	600	0.5	ug/L	524.2	a	
106-46-7	P - DICHLOROBENZENE	ND	75	0.5	ug/L	524.2	a	
100-42-5	STYRENE	ND	100	0.5	ug/L	524.2	a	
127-18-4	TETRACHLOROETHYLENE	ND	1	0.5	ug/L	524.2	a	
108-88-3	TOLUENE	ND	1000	0.5	ug/L	524.2	a	
79-01-6	TRICHLOROETHYLENE	ND	1	0.5	ug/L	524.2	a	
75-01-4	VINYL CHLORIDE	ND	2	0.5	ug/L	524.2	a	
1330-20-7	XYLENES (TOTAL)	ND	1000	0.5	ug/L	524.2	a	

**Notation:**

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 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Synthetic Organic Chemicals (SOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
94-75-7	2,4 - D	ND	70	0.1	ug/L	515.4	a	
93-72-1	2,4,5 - TP (SILVEX)	ND	10	0.2	ug/L	515.4	a	
16655-82-6	3-HYDROXYCARBOFURAN	ND		1.0	ug/L	531.2	a	
15972-60-8	ALACHLOR	ND	2	0.2	ug/L	525.2	a	
116-06-3	ALDICARB	ND		1.0	ug/L	531.2	a	
1646-88-4	ALDICARB SULFONE	ND		1.6	ug/L	531.2	a	
1646-87-3	ALDICARB SULFOXIDE	ND		1.0	ug/L	531.2	a	
309-00-2	ALDRIN	ND		0.1	ug/L	525.2	a	
1912-24-9	ATRAZINE	ND	3	0.1	ug/L	525.2	a	
50-32-8	BENZO(A)PYRENE	ND	0.2	0.02	ug/L	525.2	a	
23184-66-9	BUTACHLOR	ND		0.1	ug/L	525.2	a	
63-25-2	CARBARYL	ND		1.0	ug/L	531.2	a	
1563-66-2	CARBOFURAN	ND	40	0.9	ug/L	531.2	a	
57-74-9	CHLORDANE	ND	0.5	0.2	ug/L	508.1	a	
75-99-0	DALAPON	ND	200	1	ug/L	515.4	a	
117-81-7	DI(2-ETHYLHEXYL)-PHTHALATE	ND	6	0.6	ug/L	525.2	a	
103-23-1	DI(2-ETHYLHEXYL)-ADIPATE	ND	400	0.6	ug/L	525.2	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	0.2	0.02	ug/L	504.1	a	
1918-00-9	DICAMBA	ND		0.2	ug/L	515.4	a	
60-57-1	DIELDRIN	ND		0.1	ug/L	525.2	a	
88-85-7	DINOSEB	ND	7	0.2	ug/L	515.4	a	
1746-01-6	DIOXIN (2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN)	ND	30	5	pg/L	1613		Analyzed by PACE_MN
85-00-7	DIQUAT	ND	20	0.4	ug/L	549.2	a	
145-73-3	ENDOTHALL	ND	100	9	ug/L	548.1	a	
72-20-8	ENDRIN	ND	0.2	0.01	ug/L	525.2	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	ND	0.05	0.02	ug/L	504.1	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND	0.03	0.02	ug/L	504.1	a	
1071-83-6	GLYPHOSATE	ND	700	6	ug/L	547	a	
76-44-8	HEPTACHLOR	ND	0.4	0.04	ug/L	525.2	a	
1024-57-3	HEPTACHLOR EPOXIDE "B"	ND	0.2	0.02	ug/L	525.2	a	
118-74-1	HEXACHLOROBENZENE	ND	1	0.1	ug/L	525.2	a	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	50	0.1	ug/L	525.2	a	
58-89-9	LINDANE (BHC - GAMMA)	ND	0.2	0.02	ug/L	525.2	a	
16752-77-5	METHOMYL	ND		1.0	ug/L	531.2	a	
72-43-5	METHOXYCHLOR	ND	40	0.1	ug/L	525.2	a	
51218-45-2	METOLACHLOR	ND		0.1	ug/L	525.2	a	
21087-64-9	METRIBUZIN	ND		0.1	ug/L	525.2	a	
23135-22-0	OXAMYL (VYDATE)	ND	200	2	ug/L	531.2	a	
87-86-5	PENTACHLOROPHENOL	ND	1	0.04	ug/L	515.4	a	
1918-02-1	PICLORAM	ND	500	0.1	ug/L	515.4	a	
1336-36-3	POLYCHLORINATED BIPHENYLS (PCBs)	ND	0.5	0.5	ug/L	508.1	a	
1918-16-7	PROPACHLOR	ND		0.1	ug/L	525.2	a	
122-34-9	SIMAZINE	ND	4	0.07	ug/L	525.2	a	
8001-35-2	TOXAPHENE	ND	3	1	ug/L	508.1	a	
E-10253	TOTAL PHENOLIC COMPOUNDS	ND	1	1	ug/L	420.4	a	Analyzed by Eurofins Pom CA

## Notation:

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 SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.  
 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Perfluorinated Compounds

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
763051-92-9	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONATE	ND		1.8	ng/L	537.1		Analyzed by Pace - FL
13252-13-6	HEXAFLUOROPROPYLENE OXIDE DIMER (HFPO-DA/GENX)	ND		1.8	ng/L	537.1		
919005-14-4	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (DONA, ADONA)	ND		1.8	ng/L	537.1		
756426-58-1	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (F-53B MAJOR)	ND		1.8	ng/L	537.1		
2991-50-6	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (NETFOSAA)	ND		1.8	ng/L	537.1		
2355-31-9	N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (NMEFOSAA)	ND		1.8	ng/L	537.1		
375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	ND		1.8	ng/L	537.1		
335-76-2	PERFLUORODECANOIC ACID (PFDA)	ND		1.8	ng/L	537.1		
307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	ND		1.8	ng/L	537.1		
375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	ND		1.8	ng/L	537.1		
355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	ND		1.8	ng/L	537.1		
307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	ND		1.8	ng/L	537.1		
375-95-1	PERFLUORONONANOIC ACID (PFNA)	ND		1.8	ng/L	537.1		
1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	ND		1.8	ng/L	537.1		
335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	ND		1.8	ng/L	537.1		
376-06-7	PERFLUOROTETRADECANOIC ACID (PFTA)	ND		1.8	ng/L	537.1		
72629-94-8	PERFLUOROTRIDECANOIC ACID (PFTRDA)	ND		1.8	ng/L	537.1		
2058-94-8	PERFLUOROUNDECANOIC ACID (PFUnA)	ND		1.8	ng/L	537.1		

**Notation:**

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 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1332-21-4	ASBESTOS	ND	7	0.19	MFL>10um	100.2		Analyzed by EMSL
E-10139	HYDROGEN ION (pH)	<b>7.95</b>			pH Units	150.1	a	Temp (C) : 21.2
NA	TASTE	ND		1	FTN	SM2160 B	a	
NA	MBAS (Surfactants)	ND		0.10	mg/L	SM5540 C	a	Analyzed By Eurofins Pom CA
E-11712	COLOR	ND	15	5	COLOR UNIT	SM2120 B	a	pH:7
E-11734	ODOR	ND	3	1	TON	SM2150	a	Temperature: 39.6 C
E-10617	TURBIDITY	ND	1	0.10	NTU	180.1	a	

**Notation:**

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 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Disinfectants/DBP

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
15541-45-4	BROMATE	ND	0.010	0.001	mg/L	300.1	a	
10049-04-4	CHLORINE DIOXIDE	ND		0.10	mg/L	SM4500-ClO2 D	a	
7758-19-2	CHLORITE	ND	1.00	0.010	mg/L	300.1	a	
	CHLORAMINES TOTAL	ND	4.0	0.05	mg/L	SM4500-Cl G	a	
7782-50-5	FREE CHLORINE RESIDUAL	ND	0.1	0.05	mg/L	SM4500-Cl G	a	
NA	HAA(5)	ND	60	1	ug/L	552.3	a	Field Duplicate HAA(5) = ND
79-43-6	DICHLOROACETIC ACID	ND		1	ug/L	552.3	a	
76-03-9	TRICHLOROACETIC ACID	ND		1	ug/L	552.3	a	
631-64-1	DIBROMOACETIC ACID	ND		1	ug/L	552.3	a	
79-11-8	MONOCHLOROACETIC ACID	ND		2	ug/L	552.3	a	
79-08-3	MONOBROMOACETIC ACID	ND		1	ug/L	552.3	a	
E-14471	TOTAL TRIHALOMETHANE	ND	10	0.5	ug/L	524.2	a	
75-27-4	BROMODICHLOROMETHANE	ND		0.5	ug/L	524.2	a	
124-48-1	CHLORODIBROMOMETHANE	ND		0.5	ug/L	524.2	a	
67-66-3	CHLOROFORM	ND		0.5	ug/L	524.2	a	
75-25-2	BROMOFORM	ND		0.5	ug/L	524.2	a	

**Notation:**

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 MRL - Method Reporting Limit .

## BOTTLED WATER STANDARD OF QUALITY REPORT

### Radiological Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
12587-46-1	GROSS ALPHA	ND	15	0	pCi/L	900.0		Analyzed by PacePA
12587-47-2	GROSS BETA	ND	50	0	pCi/L	900.0		
13982-63-3	RADIUM 226	ND			pCi/L	903.1		
15262-20-1	RADIUM 228	ND	5		pCi/L	904.0		
7440-61-1	URANIUM	ND	0.030	0.001	mg/L	200.8	a	
14859-67-7	RADON	ND			pCi/L	SM7500-Rn B		Analyzed by Pace-PA

**Notation:**

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Additional Volatile Organic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
542-75-6	1,3-DICHLOROPROPYLENE, TOTAL	ND		0.5	ug/L	524.2	a	
75-34-3	1,1 - DICHLOROETHANE	ND		0.5	ug/L	524.2	a	
563-58-6	1,1 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		0.5	ug/L	524.2	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		0.5	ug/L	524.2	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	ND		0.5	ug/L	524.2	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	ND	21	0.5	ug/L	524.2	a	
142-28-9	1,3 - DICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	ND		0.5	ug/L	524.2	a	
594-20-7	2,2 - DICHLOROPROPANE	ND		0.5	ug/L	524.2	a	
108-86-1	BROMOBENZENE	ND		0.5	ug/L	524.2	a	
74-97-5	BROMOCHLOROMETHANE	ND		0.5	ug/L	524.2	a	
74-83-9	BROMOMETHANE	ND		0.5	ug/L	524.2	a	
75-00-3	CHLOROETHANE	ND		0.5	ug/L	524.2	a	
74-87-3	CHLOROMETHANE	ND		0.5	ug/L	524.2	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
74-95-3	DIBROMOMETHANE	ND		0.5	ug/L	524.2	a	
75-71-8	DICHLORODIFLUOROMETHANE	ND		0.5	ug/L	524.2	a	
87-68-3	HEXACHLOROBUTADIENE	ND		0.5	ug/L	524.2	a	
98-82-8	ISOPROPYLBENZENE	ND		0.5	ug/L	524.2	a	
541-73-1	M - DICHLOROBENZENE	ND		0.5	ug/L	524.2	a	
179601-23-1	M/P - XYLENE	ND		0.5	ug/L	524.2	a	
1634-04-4	METHYL TERT-BUTYL ETHER	ND		0.5	ug/L	524.2	a	
104-51-8	N - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
103-65-1	N - PROPYLBENZENE	ND		0.5	ug/L	524.2	a	
91-20-3	NAPHTHALENE	ND	14	0.5	ug/L	524.2	a	
95-49-8	O - CHLOROTOLUENE	ND		0.5	ug/L	524.2	a	
106-43-4	P - CHLOROTOLUENE	ND		0.5	ug/L	524.2	a	
95-47-6	O - XYLENE	ND		0.5	ug/L	524.2	a	
99-87-6	P - ISOPROPYLTOLUENE	ND		0.5	ug/L	524.2	a	
135-98-8	SEC - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
98-06-6	TERT - BUTYLBENZENE	ND		0.5	ug/L	524.2	a	
10061-02-6	TRANS- 1,3 - DICHLOROPROPENE	ND		0.5	ug/L	524.2	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		0.5	ug/L	524.2	a	

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## BOTTLED WATER STANDARD OF QUALITY REPORT

### Additional Inorganic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
E-11778	HARDNESS	<b>85.1</b>		10	mg CaCO3/L	200.7	a	
E-14506	ALKALINITY	<b>96.2</b>		5	mg CaCO3/L	SM2320 B	a	
NA	CORROSIVITY	<b>-0.52</b>			SI	SM203	a	

**Notation:**

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 MRL - Method Reporting Limit .

**BOTTLED WATER STANDARD OF QUALITY REPORT****Inorganic Chemicals (Massachusetts)**

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1497-73-0	PERCHLORATE	ND	2	0.50	ug/L	331.0	a	Analyzed by Eurofins Pom CA

## Notation:

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MRL - Method Reporting Limit .



**Burlington, WA Corporate Laboratory (a)**  
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400  
**Bellingham, WA Microbiology (b)**  
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

**Portland, OR Microbiology/Chemistry (c)**  
 9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802  
**Corvallis, OR Microbiology/Chemistry (d)**  
 1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946  
**Bend, OR Microbiology (e)**  
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

# Data Report

Client Name: **Alpine Water GMBH**  
 Obertraun 311  
 Obertraun, na 4831

Reference Number: **24-21765**  
 Project: **1108-014 - 50 State Product**

Report Date: **8/27/24**

Date Received: **7/25/24**

Approved by: **anp,bj**

Authorized by:

**Lawrence J Henderson, PhD**  
 Director of Laboratories, Vice President

Sample Description: 1108-014 Artesian Finished Product Line:								Matrix BP	Sample Date: 7/29/24 10:05 am			
Lab Number: 42209		Sample Comment: 5G						Collected By:				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-42-8	<b>BORON</b>	ND	0.050	0.0075	mg/L	1.0	200.7	a	7/30/24	BJ	200.7_240730A4	
7440-70-2	<b>CALCIUM</b>	18.4	0.5	0.03	mg/L	1.0	200.7	a	7/30/24	BJ	200.7_240730A4	
7439-95-4	<b>MAGNESIUM</b>	9.5	0.5	0.04	mg/L	1.0	200.7	a	7/30/24	BJ	200.7_240730A4	
7440-23-5	<b>SODIUM</b>	ND	0.5	0.05	mg/L	1.0	200.7	a	7/30/24	BJ	200.7_240730A4	
7440-09-7	<b>POTASSIUM</b>	ND	1.0	0.02	mg/L	1.0	200.7	a	7/30/24	BJ	200.7_240730A4	
24959-67-9	<b>BROMIDE</b>	ND	0.005	0.00019	mg/L	1.0	300.1	a	7/30/24	TJL	300.1_240730A	
E-10184	<b>ELECTRICAL CONDUCTIVITY</b>	160	10		uS/cm	1.0	SM2510 B	a	7/29/24	JWN	EC_240729R	
	<b>TOTAL COLIFORM For Taste Test</b>	ABSENT	P/A		per 100mL	1.0	SM9223 B/Colilert-18	a	7/30/24	SPM	M_240729BUR	

**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Calibration Check</b>									
1677_240801	0 CYANIDE	0.096	0.100	mg/L	OIA-1677-DW	96	90-110	CAL	
200.7_240730A4	2 HARDNESS	73.3	72.8	mg/L	200.7	101	90-110	CAL	
	2 ALUMINUM	1	1	mg/L	200.7	100	90-110	CAL	
	2 IRON	0.994	1	mg/L	200.7	99	90-110	CAL	
	2 BORON	1.01	1	mg/L	200.7	101	90-110	CAL	
	2 CALCIUM	10.9	11	mg/L	200.7	99	90-110	CAL	
	2 MAGNESIUM	11.2	11	mg/L	200.7	102	90-110	CAL	
	2 POTASSIUM	19.2	20	mg/L	200.7	96	90-110	CAL	
	2 SODIUM	10.7	11	mg/L	200.7	97	90-110	CAL	
200.8_240801A4	0 URANIUM	0.00088	0.001	mg/L	200.8	88	80-120	CAL	
	0 COPPER	0.00103	0.001	mg/L	200.8	103	80-120	CAL	
	0 MANGANESE	0.00099	0.001	mg/L	200.8	99	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	200.8	95	80-120	CAL	
	0 ZINC	0.0011	0.001	mg/L	200.8	110	80-120	CAL	
	0 ANTIMONY	0.00097	0.001	mg/L	200.8	97	80-120	CAL	
	0 ARSENIC	0.001	0.001	mg/L	200.8	100	80-120	CAL	
	0 BARIUM	0.00098	0.001	mg/L	200.8	98	80-120	CAL	
	0 BERYLLIUM	0.00102	0.001	mg/L	200.8	102	80-120	CAL	
	0 CADMIUM	0.00098	0.001	mg/L	200.8	98	80-120	CAL	
	0 CHROMIUM	0.00101	0.001	mg/L	200.8	101	80-120	CAL	
	0 LEAD	0.00096	0.001	mg/L	200.8	96	80-120	CAL	
	0 NICKEL	0.00106	0.001	mg/L	200.8	106	80-120	CAL	
	0 SELENIUM	0.00102	0.001	mg/L	200.8	102	80-120	CAL	
	0 THALLIUM	0.00097	0.001	mg/L	200.8	97	80-120	CAL	
245.1_240731	0 MERCURY	0.00202	0.002	mg/L	245.1	101	95-105	CAL	
300.1_240730A	0 BROMATE	0.00099	0.001	mg/L	300.1	99	75-125	CAL	
	0 CHLORITE	0.0010	0.001	mg/L	300.1	100	75-125	CAL	
	0 BROMIDE	0.00098	0.001	mg/L	300.1	98	75-125	CAL	
	1 BROMATE	0.0048	0.005	mg/L	300.1	96	75-125	CAL	
	1 CHLORITE	0.0052	0.005	mg/L	300.1	104	75-125	CAL	
	1 BROMIDE	0.0050	0.005	mg/L	300.1	100	75-125	CAL	
	2 BROMATE	0.0102	0.01	mg/L	300.1	102	75-125	CAL	
	2 CHLORITE	0.0106	0.01	mg/L	300.1	106	75-125	CAL	
	2 BROMIDE	0.0101	0.01	mg/L	300.1	101	75-125	CAL	
	3 BROMATE	0.0146	0.015	mg/L	300.1	97	75-125	CAL	
	3 CHLORITE	0.0153	0.015	mg/L	300.1	102	75-125	CAL	
	3 BROMIDE	0.0150	0.015	mg/L	300.1	100	75-125	CAL	
	4 BROMATE	0.0509	0.05	mg/L	300.1	102	75-125	CAL	
	4 CHLORITE	0.0524	0.05	mg/L	300.1	105	75-125	CAL	
	4 BROMIDE	0.0499	0.05	mg/L	300.1	100	75-125	CAL	
549_240805	0 DIQUAT	19.2	20	ug/L	549.2	96	80-120	CAL	
CL_240729A	0 FREE CHLORINE RESIDUAL	0.058	0.05	mg/L	SM4500-Cl G	116	70-130	CAL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Calibration Check</b>										
EC_240729R	0 ELECTRICAL CONDUCTIVITY	11.1	10	uS/cm	SM2510 B	111	85-115		CAL	
IC06_240729A	0 CHLORIDE	1.0	1	mg/L	300.0	100	90-110		CAL	
	0 SULFATE	1.91	2	mg/L	300.0	96	90-110		CAL	
	0 FLUORIDE	0.97	1	mg/L	300.0	97	90-110		CAL	
	0 NITRATE-N	1.03	1	mg/L	300.0	103	90-110		CAL	
	0 NITRITE-N	0.97	1	mg/L	300.0	97	90-110		CAL	
	0 TOTAL NITRATE+NITRITE as N	2.00	2	mg/L	300.0	100	90-110		CAL	
TURB_240729	0 TURBIDITY	9.42	10.00	NTU	180.1	94	90-110		CAL	
	1 TURBIDITY	9.40	10.00	NTU	180.1	94	90-110		CAL	
	2 TURBIDITY	9.17	10.00	NTU	180.1	92	90-110		CAL	
	3 TURBIDITY	9.25	10.00	NTU	180.1	93	90-110		CAL	
<b>Low-Level Continuing Calibration Verification</b>										
549_240805	2 DIQUAT	0.43	0.4	ug/L	549.2	108	50-150		LCCV	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Laboratory Fortified Blank</b>									
200.7_240730A4	1 HARDNESS	92.7	86	mg/L	200.7	108	85-115	LFB	
	1 ALUMINUM	0.498	0.5	mg/L	200.7	100	85-115	LFB	
	1 IRON	0.534	0.5	mg/L	200.7	107	85-115	LFB	
	1 BORON	0.485	0.5	mg/L	200.7	97	85-115	LFB	
	1 CALCIUM	13.7	13	mg/L	200.7	105	85-115	LFB	
	1 MAGNESIUM	14.2	13	mg/L	200.7	109	85-115	LFB	
	1 POTASSIUM	17.6	17.5	mg/L	200.7	101	85-115	LFB	
	1 SODIUM	13.6	13	mg/L	200.7	105	85-115	LFB	
200.8_240801A4	0 URANIUM	0.0093	0.01	mg/L	200.8	93	85-115	LFB	
	0 COPPER	0.0102	0.01	mg/L	200.8	102	85-115	LFB	
	0 MANGANESE	0.0102	0.01	mg/L	200.8	102	85-115	LFB	
	0 SILVER	0.0098	0.01	mg/L	200.8	98	85-115	LFB	
	0 ZINC	0.0106	0.01	mg/L	200.8	106	85-115	LFB	
	0 ANTIMONY	0.0098	0.01	mg/L	200.8	98	85-115	LFB	
	0 ARSENIC	0.01	0.01	mg/L	200.8	100	85-115	LFB	
	0 BARIUM	0.0099	0.01	mg/L	200.8	99	85-115	LFB	
	0 BERYLLIUM	0.0099	0.01	mg/L	200.8	99	85-115	LFB	
	0 CADMIUM	0.01	0.01	mg/L	200.8	100	85-115	LFB	
	0 CHROMIUM	0.0104	0.01	mg/L	200.8	104	85-115	LFB	
	0 LEAD	0.0099	0.01	mg/L	200.8	99	85-115	LFB	
	0 NICKEL	0.0106	0.01	mg/L	200.8	106	85-115	LFB	
	0 SELENIUM	0.0101	0.01	mg/L	200.8	101	85-115	LFB	
	0 THALLIUM	0.0099	0.01	mg/L	200.8	99	85-115	LFB	
245.1_240731	0 MERCURY	0.00165	0.00167	mg/L	245.1	99	85-115	LFB	
504_240801	0 1,2 - DIBROMOETHANE (EDB)	0.27	0.25	ug/L	504.1	108	70-130	LFB	
	0 1,2,3 - TRICHLOROPROPANE	0.28	0.25	ug/L	504.1	112	70-130	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.28	0.25	ug/L	504.1	112	70-130	LFB	
515_240802	0 2,4 - D	0.456	0.5	ug/L	515.4	91	70-130	LFB	
	0 2,4,5 - TP (SILVEX)	0.497	0.5	ug/L	515.4	99	70-130	LFB	
	0 DICAMBA	0.528	0.5	ug/L	515.4	106	70-130	LFB	
	0 DINOSEB	0.502	0.5	ug/L	515.4	100	70-130	LFB	
	0 PENTACHLOROPHENOL	0.488	0.5	ug/L	515.4	98	70-130	LFB	
	0 PICLORAM	0.474	0.5	ug/L	515.4	95	70-130	LFB	
	1 2,4 - D	2.53	2.5	ug/L	515.4	101	70-130	LFB	
	1 2,4,5 - TP (SILVEX)	2.45	2.5	ug/L	515.4	98	70-130	LFB	
	1 DALAPON	2.54	2.5	ug/L	515.4	102	70-130	LFB	
	1 DICAMBA	2.40	2.5	ug/L	515.4	96	70-130	LFB	
	1 DINOSEB	2.50	2.5	ug/L	515.4	100	70-130	LFB	
	1 PENTACHLOROPHENOL	2.47	2.5	ug/L	515.4	99	70-130	LFB	
	1 PICLORAM	2.46	2.5	ug/L	515.4	98	70-130	LFB	
524_240731	0 1,1 - DICHLOROETHANE	9.5	10	ug/L	524.2	95	70-130	LFB	
	0 1,1 - DICHLOROPROPENE	10.1	10	ug/L	524.2	101	70-130	LFB	

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NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Laboratory Fortified Blank</b>									
524_240731	0 1,1,1,2 - TETRACHLOROETHANE	9.7	10	ug/L	524.2	97	70-130	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 1,2,3 - TRICHLOROBENZENE	10.2	10	ug/L	524.2	102	70-130	LFB	
	0 1,2,3 - TRICHLOROPROPANE	10.3	10	ug/L	524.2	103	70-130	LFB	
	0 1,2,4 - TRIMETHYLBENZENE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 1,3 - DICHLOROPROPANE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 1,3,5 - TRIMETHYLBENZENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 2,2 - DICHLOROPROPANE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 BROMOBENZENE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 BROMOCHLOROMETHANE	10.1	10	ug/L	524.2	101	70-130	LFB	
	0 BROMOMETHANE	8.6	10	ug/L	524.2	86	70-130	LFB	
	0 CHLOROETHANE	9.4	10	ug/L	524.2	94	70-130	LFB	
	0 CHLOROMETHANE	10.4	10	ug/L	524.2	104	70-130	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	9.5	10	ug/L	524.2	95	70-130	LFB	
	0 DIBROMOMETHANE	8.4	10	ug/L	524.2	84	70-130	LFB	
	0 DICHLORODIFLUOROMETHANE	10.5	10	ug/L	524.2	105	70-130	LFB	
	0 HEXACHLOROBUTADIENE	10.4	10	ug/L	524.2	104	70-130	LFB	
	0 ISOPROPYLBENZENE	10.5	10	ug/L	524.2	105	70-130	LFB	
	0 M - DICHLOROBENZENE	10.1	10	ug/L	524.2	101	70-130	LFB	
	0 M/P - XYLENE	20.2	20	ug/L	524.2	101	70-130	LFB	
	0 METHYL TERT-BUTYL ETHER	8.6	10	ug/L	524.2	86	70-130	LFB	
	0 N - BUTYLBENZENE	10.5	10	ug/L	524.2	105	70-130	LFB	
	0 N - PROPYLBENZENE	10.1	10	ug/L	524.2	101	70-130	LFB	
	0 NAPHTHALENE	10.7	10	ug/L	524.2	107	70-130	LFB	
	0 O - CHLOROTOLUENE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 O - XYLENE	9.3	10	ug/L	524.2	93	70-130	LFB	
	0 P - CHLOROTOLUENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 P - ISOPROPYLTOLUENE	10.6	10	ug/L	524.2	106	70-130	LFB	
	0 SEC - BUTYLBENZENE	10.6	10	ug/L	524.2	106	70-130	LFB	
	0 TERT - BUTYLBENZENE	10.6	10	ug/L	524.2	106	70-130	LFB	
	0 TRANS- 1,3 - DICHLOROPROPENE	9.0	10	ug/L	524.2	90	70-130	LFB	
	0 TRICHLOROFUOROMETHANE	9.5	10	ug/L	524.2	95	70-130	LFB	
	0 BROMODICHLOROMETHANE	8.5	10	ug/L	524.2	85	70-130	LFB	
	0 BROMOFORM	8.7	10	ug/L	524.2	87	70-130	LFB	
	0 CHLORODIBROMOMETHANE	9.2	10	ug/L	524.2	92	70-130	LFB	
	0 CHLOROFORM	8.8	10	ug/L	524.2	88	70-130	LFB	
	0 1,1 - DICHLOROETHYLENE	11.2	10	ug/L	524.2	112	70-130	LFB	
	0 1,1,1 - TRICHLOROETHANE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 1,1,2 - TRICHLOROETHANE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 1,2 - DICHLOROETHANE	8.6	10	ug/L	524.2	86	70-130	LFB	
	0 1,2 - DICHLOROPROPANE	9.2	10	ug/L	524.2	92	70-130	LFB	
	0 1,2,4 - TRICHLOROBENZENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 BENZENE	9.3	10	ug/L	524.2	93	70-130	LFB	

\*Notation:

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NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Laboratory Fortified Blank</b>									
524_240731	0 CARBON TETRACHLORIDE	9.3	10	ug/L	524.2	93	70-130	LFB	
	0 CIS - 1,2 - DICHLOROETHYLENE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 DICHLOROMETHANE	9.7	10	ug/L	524.2	97	70-130	LFB	
	0 ETHYLBENZENE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 MONOCHLOROENZENE	10.3	10	ug/L	524.2	103	70-130	LFB	
	0 O - DICHLOROENZENE	10.1	10	ug/L	524.2	101	70-130	LFB	
	0 P - DICHLOROENZENE	9.7	10	ug/L	524.2	97	70-130	LFB	
	0 STYRENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 TETRACHLOROETHYLENE	11.0	10	ug/L	524.2	110	70-130	LFB	
	0 TOLUENE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 TRANS - 1,2 - DICHLOROETHYLENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 TRICHLOROETHYLENE	9.4	10	ug/L	524.2	94	70-130	LFB	
	0 VINYL CHLORIDE	11.0	10	ug/L	524.2	110	70-130	LFB	
525_240808	0 ALACHLOR	2.32	2	ug/L	525.2	116	70-130	LFB	
	0 ALDRIN	1.06	1	ug/L	525.2	106	70-130	LFB	
	0 ATRAZINE	2.44	2	ug/L	525.2	122	70-130	LFB	
	0 BUTACHLOR	1.14	1	ug/L	525.2	114	70-130	LFB	
	0 DI(2-ETHYLHEXYL)-ADIPATE	1.30	1	ug/L	525.2	130	70-130	LFB	
	0 DI(2-ETHYLHEXYL)-PHTHALATE	1.39	1	ug/L	525.2	139	70-130	HR LFB	
	0 DIELDRIN	1.17	1	ug/L	525.2	117	70-130	LFB	
	0 HEPTACHLOR EPOXIDE "B"	1.08	1	ug/L	525.2	108	70-130	LFB	
	0 METOLACHLOR	1.20	1	ug/L	525.2	120	70-130	LFB	
	0 METRIBUZIN	0.75	1	ug/L	525.2	75	70-130	LFB	
	0 PROPACHLOR	1.22	1	ug/L	525.2	122	70-130	LFB	
	0 SIMAZINE	1.03	1	ug/L	525.2	103	70-130	LFB	
	531_240819	0 3-HYDROXYCARBOFURAN	18.7	20	ug/L	531.2	94	70-130	LFB
0 ALDICARB		18.5	20	ug/L	531.2	93	70-130	LFB	
0 ALDICARB SULFONE		18.5	20	ug/L	531.2	93	70-130	LFB	
0 ALDICARB SULFOXIDE		18.7	20	ug/L	531.2	94	70-130	LFB	
0 CARBARYL		18.3	20	ug/L	531.2	92	70-130	LFB	
0 CARBOFURAN		18.4	20	ug/L	531.2	92	70-130	LFB	
0 METHOMYL		18.6	20	ug/L	531.2	93	70-130	LFB	
0 OXAMYL (VYDATE)		18.6	20	ug/L	531.2	93	70-130	LFB	
547_240808	0 GLYPHOSATE	19.0	20	ug/L	547	95	81-126	LFB	
	1 GLYPHOSATE	36.4	40	ug/L	547	91	81-126	LFB	
	2 GLYPHOSATE	17.5	20	ug/L	547	88	81-126	LFB	
548_240805	0 ENDOTHALL	16.3	20	ug/L	548.1	82	50-121	LFB	
549_240805	0 DIQUAT	17.7	20	ug/L	549.2	89	70-130	LFB	
552_240802	3 DIBROMOACETIC ACID	12.7	12.5	ug/L	552.3	102	70-130	LFB	
	3 DICHLOROACETIC ACID	12.1	12.5	ug/L	552.3	97	70-130	LFB	
	3 MONOBROMOACETIC ACID	12.2	12.5	ug/L	552.3	98	70-130	LFB	
	3 MONOCHLOROACETIC ACID	12.3	12.5	ug/L	552.3	98	70-130	LFB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Laboratory Fortified Blank</b>										
552_240802	3 TRICHLOROACETIC ACID	12.7	12.5	ug/L	552.3	102	70-130	LFB		
	4 DIBROMOACETIC ACID	27.9	25	ug/L	552.3	112	70-130	LFB		
	4 DICHLOROACETIC ACID	26.0	25	ug/L	552.3	104	70-130	LFB		
	4 MONOBROMOACETIC ACID	25.3	25	ug/L	552.3	101	70-130	LFB		
	4 MONOCHLOROACETIC ACID	24.4	25	ug/L	552.3	98	70-130	LFB		
	4 TRICHLOROACETIC ACID	28.9	25	ug/L	552.3	116	70-130	LFB		
	5 DIBROMOACETIC ACID	13.2	12.5	ug/L	552.3	106	70-130	LFB		
	5 DICHLOROACETIC ACID	13.1	12.5	ug/L	552.3	105	70-130	LFB		
	5 MONOBROMOACETIC ACID	13.2	12.5	ug/L	552.3	106	70-130	LFB		
	5 MONOCHLOROACETIC ACID	12.8	12.5	ug/L	552.3	102	70-130	LFB		
	5 TRICHLOROACETIC ACID	13.2	12.5	ug/L	552.3	106	70-130	LFB		
	6 DIBROMOACETIC ACID	29.1	25	ug/L	552.3	116	70-130	LFB		
	6 DICHLOROACETIC ACID	27.8	25	ug/L	552.3	111	70-130	LFB		
	6 MONOBROMOACETIC ACID	27.0	25	ug/L	552.3	108	70-130	LFB		
	6 MONOCHLOROACETIC ACID	25.3	25	ug/L	552.3	101	70-130	LFB		
	6 TRICHLOROACETIC ACID	30.1	25	ug/L	552.3	120	70-130	LFB		
	7 DIBROMOACETIC ACID	11.5	12.5	ug/L	552.3	92	70-130	LFB		Extracted 08/01/2024
	7 DICHLOROACETIC ACID	12.1	12.5	ug/L	552.3	97	70-130	LFB		Extracted 08/01/2024
	7 MONOBROMOACETIC ACID	12.0	12.5	ug/L	552.3	96	70-130	LFB		Extracted 08/01/2024
	7 MONOCHLOROACETIC ACID	11.9	12.5	ug/L	552.3	95	70-130	LFB		Extracted 08/01/2024
	7 TRICHLOROACETIC ACID	11.9	12.5	ug/L	552.3	95	70-130	LFB		Extracted 08/01/2024
	8 DIBROMOACETIC ACID	25.0	25	ug/L	552.3	100	70-130	LFB		Extracted 08/01/2024
	8 DICHLOROACETIC ACID	24.8	25	ug/L	552.3	99	70-130	LFB		Extracted 08/01/2024
	8 MONOBROMOACETIC ACID	24.0	25	ug/L	552.3	96	70-130	LFB		Extracted 08/01/2024
	8 MONOCHLOROACETIC ACID	23.3	25	ug/L	552.3	93	70-130	LFB		Extracted 08/01/2024
	8 TRICHLOROACETIC ACID	26.4	25	ug/L	552.3	106	70-130	LFB		Extracted 08/01/2024
ALK_240801	0 ALKALINITY	102	100	mg CaCO3/ISM2320 B		102	90-110	LFB		
	0 ALKALINITY	103	100	mg CaCO3/ISM2320 B		103	90-110	LFB		
CL_240729A	0 FREE CHLORINE RESIDUAL	0.210	0.2	mg/L	SM4500-Cl G	105	80-120	LFB		
EC_240729R	0 ELECTRICAL CONDUCTIVITY	104	100	uS/cm	SM2510 B	104	90-110	LFB		

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Low-Level Lab Fortified Blank</b>										
504_240801	1 1,2 - DIBROMOETHANE (EDB)	0.011	0.01	ug/L	504.1	110	60-140		LLFB	
	1 1,2,3 - TRICHLOROPROPANE	0.010	0.01	ug/L	504.1	100	60-140		LLFB	
	1 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.012	0.01	ug/L	504.1	120	60-140		LLFB	
515_240802	0 2,4 - D	0.103	0.1	ug/L	515.4	103	50-150		LLFB	
	0 2,4,5 - TP (SILVEX)	0.109	0.1	ug/L	515.4	109	50-150		LLFB	
	0 DALAPON	0.391	0.5	ug/L	515.4	78	50-150		LLFB	
	0 DICAMBA	0.114	0.1	ug/L	515.4	114	50-150		LLFB	
	0 DINOSEB	0.097	0.1	ug/L	515.4	97	50-150		LLFB	
	0 PENTACHLOROPHENOL	0.109	0.1	ug/L	515.4	109	50-150		LLFB	
	0 PICLORAM	0.123	0.1	ug/L	515.4	123	50-150		LLFB	
	1 PENTACHLOROPHENOL	0.040	0.04	ug/L	515.4	100	50-150		LLFB	
525_240808	0 ALACHLOR	0.18	0.2	ug/L	525.2	90	50-150		LLFB	
	0 ALDRIN	0.09	0.1	ug/L	525.2	90	50-150		LLFB	
	0 ATRAZINE	0.20	0.2	ug/L	525.2	100	50-150		LLFB	
	0 BUTACHLOR	0.10	0.1	ug/L	525.2	100	50-150		LLFB	
	0 DI(2-ETHYLHEXYL)-ADIPATE	0.13	0.1	ug/L	525.2	130	50-150		LLFB	
	0 DI(2-ETHYLHEXYL)-PHTHALATE	0.60	0.5	ug/L	525.2	120	50-150		LLFB	
	0 DIELDRIN	0.13	0.1	ug/L	525.2	130	50-150		LLFB	
	0 HEPTACHLOR EPOXIDE "B"	0.13	0.1	ug/L	525.2	130	50-150		LLFB	
	0 METOLACHLOR	0.12	0.1	ug/L	525.2	120	50-150		LLFB	
	0 METRIBUZIN	0.04	0.1	ug/L	525.2	40	50-150	LR	LLFB	
	0 PROPACHLOR	0.11	0.1	ug/L	525.2	110	50-150		LLFB	
	0 SIMAZINE	0.06	0.1	ug/L	525.2	60	50-150		LLFB	
531_240819	0 3-HYDROXYCARBOFURAN	0.44	0.5	ug/L	531.2	88	50-150		LLFB	
	0 ALDICARB	0.40	0.5	ug/L	531.2	80	50-150		LLFB	
	0 ALDICARB SULFONE	0.46	0.5	ug/L	531.2	92	50-150		LLFB	
	0 ALDICARB SULFOXIDE	0.43	0.5	ug/L	531.2	86	50-150		LLFB	
	0 CARBARYL	0.46	0.5	ug/L	531.2	92	50-150		LLFB	
	0 CARBOFURAN	0.50	0.5	ug/L	531.2	100	50-150		LLFB	
	0 METHOMYL	0.46	0.5	ug/L	531.2	92	50-150		LLFB	
	0 OXAMYL (VYDATE)	0.47	0.5	ug/L	531.2	94	50-150		LLFB	
547_240808	0 GLYPHOSATE	4.32	5	ug/L	547	86	50-150		LLFB	
548_240805	0 ENDOTHALL	4.76	5	ug/L	548.1	95	50-150		LLFB	
549_240805	0 DIQUAT	0.33	0.4	ug/L	549.2	83	50-150		LLFB	
552_240802	1 DIBROMOACETIC ACID	0.80	1	ug/L	552.3	80	50-150		LLFB	
	1 DICHLOROACETIC ACID	1.1	1	ug/L	552.3	110	50-150		LLFB	
	1 MONOBROMOACETIC ACID	1.0	1	ug/L	552.3	100	50-150		LLFB	
	1 MONOCHLOROACETIC ACID	1.2	1	ug/L	552.3	120	50-150		LLFB	
	1 TRICHLOROACETIC ACID	0.82	1	ug/L	552.3	82	50-150		LLFB	
	2 DIBROMOACETIC ACID	0.89	1	ug/L	552.3	89	50-150		LLFB	
	2 DICHLOROACETIC ACID	1.3	1	ug/L	552.3	130	50-150		LLFB	

\*Notation:

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FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Low-Level Lab Fortified Blank</b>										
552_240802	2 MONOBROMOACETIC ACID	1.2	1	ug/L	552.3	120	50-150	LLFB		
	2 MONOCHLOROACETIC ACID	1.4	1	ug/L	552.3	140	50-150	LLFB		
	2 TRICHLOROACETIC ACID	0.92	1	ug/L	552.3	92	50-150	LLFB		
	3 DIBROMOACETIC ACID	0.81	1	ug/L	552.3	81	50-150	LLFB		
	3 DICHLOROACETIC ACID	1.2	1	ug/L	552.3	120	50-150	LLFB		
	3 MONOBROMOACETIC ACID	1.1	1	ug/L	552.3	110	50-150	LLFB		
	3 MONOCHLOROACETIC ACID	1.2	1	ug/L	552.3	120	50-150	LLFB		
	3 TRICHLOROACETIC ACID	0.84	1	ug/L	552.3	84	50-150	LLFB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Laboratory Reagent Blank</b>										
1677_240801	0 CYANIDE	ND		mg/L	OIA-1677-DW	0-0			LRB	
200.7_240730A4	0 HARDNESS	ND		mg/L	200.7	0-0			LRB	
	0 ALUMINUM	ND		mg/L	200.7	0-0			LRB	
	0 IRON	ND		mg/L	200.7	0-0			LRB	
	0 BORON	ND		mg/L	200.7	0-0			LRB	
	0 CALCIUM	ND		mg/L	200.7	0-0			LRB	
	0 MAGNESIUM	ND		mg/L	200.7	0-0			LRB	
	0 POTASSIUM	ND		mg/L	200.7	0-0			LRB	
	0 SODIUM	ND		mg/L	200.7	0-0			LRB	
200.8_240801A4	0 URANIUM	ND		mg/L	200.8	0-0			LRB	
	0 COPPER	ND		mg/L	200.8	0-0			LRB	
	0 MANGANESE	ND		mg/L	200.8	0-0			LRB	
	0 SILVER	ND		mg/L	200.8	0-0			LRB	
	0 ZINC	ND		mg/L	200.8	0-0			LRB	
	0 ANTIMONY	ND		mg/L	200.8	0-0			LRB	
	0 ARSENIC	ND		mg/L	200.8	0-0			LRB	
	0 BARIUM	ND		mg/L	200.8	0-0			LRB	
	0 BERYLLIUM	ND		mg/L	200.8	0-0			LRB	
	0 CADMIUM	ND		mg/L	200.8	0-0			LRB	
	0 CHROMIUM	ND		mg/L	200.8	0-0			LRB	
	0 LEAD	ND		mg/L	200.8	0-0			LRB	
	0 NICKEL	ND		mg/L	200.8	0-0			LRB	
	0 SELENIUM	ND		mg/L	200.8	0-0			LRB	
	0 THALLIUM	ND		mg/L	200.8	0-0			LRB	
245.1_240731	0 MERCURY	ND		mg/L	245.1	0-0			LRB	
300.1_240730A	0 BROMATE	ND		mg/L	300.1	0-0			LRB	
	0 CHLORITE	ND		mg/L	300.1	0-0			LRB	
	0 BROMIDE	ND		mg/L	300.1	0-0			LRB	
ALK_240801	0 ALKALINITY	ND		mg CaCO3/ISM2320 B		0-1			LRB	
CL_240729A	0 CHLORAMINES TOTAL	ND		mg/L	SM4500-Cl G	0-0			LRB	
	0 FREE CHLORINE RESIDUAL	ND		mg/L	SM4500-Cl G	0-0			LRB	
CLO2_240729A	0 CHLORINE DIOXIDE	ND		mg/L	SM4500-ClO2 D	0-0			LRB	
IC06_240729A	0 CHLORIDE	ND		mg/L	300.0	0-0			LRB	
	0 SULFATE	ND		mg/L	300.0	0-0			LRB	
	0 FLUORIDE	ND		mg/L	300.0	0-0			LRB	
	0 NITRATE-N	ND		mg/L	300.0	0-0			LRB	
	0 NITRITE-N	ND		mg/L	300.0	0-0			LRB	
	0 TOTAL NITRATE+NITRITE as N	ND		mg/L	300.0	0-0			LRB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Method Blank</b>										
200.7_240730A4	0 HARDNESS	ND		mg/L	200.7	0-0				MB
	0 ALUMINUM	ND		mg/L	200.7	0-0				MB
	0 IRON	ND		mg/L	200.7	0-0				MB
	0 BORON	ND		mg/L	200.7	0-0				MB
	0 CALCIUM	ND		mg/L	200.7	0-0				MB
	0 MAGNESIUM	ND		mg/L	200.7	0-0				MB
	0 POTASSIUM	ND		mg/L	200.7	0-0				MB
	0 SODIUM	ND		mg/L	200.7	0-0				MB
200.8_240801A4	0 URANIUM	ND		mg/L	200.8	0-0				MB
	0 COPPER	ND		mg/L	200.8	0-0				MB
	0 MANGANESE	ND		mg/L	200.8	0-0				MB
	0 SILVER	ND		mg/L	200.8	0-0				MB
	0 ZINC	ND		mg/L	200.8	0-0				MB
	0 ANTIMONY	ND		mg/L	200.8	0-0				MB
	0 ARSENIC	ND		mg/L	200.8	0-0				MB
	0 BARIUM	ND		mg/L	200.8	0-0				MB
	0 BERYLLIUM	ND		mg/L	200.8	0-0				MB
	0 CADMIUM	ND		mg/L	200.8	0-0				MB
	0 CHROMIUM	ND		mg/L	200.8	0-0				MB
	0 LEAD	ND		mg/L	200.8	0-0				MB
	0 NICKEL	ND		mg/L	200.8	0-0				MB
	0 SELENIUM	ND		mg/L	200.8	0-0				MB
0 THALLIUM	ND		mg/L	200.8	0-0				MB	
504_240801	0 1,2 - DIBROMOETHANE (EDB)	ND		ug/L	504.1	0-0				MB
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	504.1	0-0				MB
	0 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND		ug/L	504.1	0-0				MB
508_240808	0 CHLORDANE	ND		ug/L	508.1	0-0				MB
	0 TOXAPHENE	ND		ug/L	508.1	0-0				MB
515_240802	0 2,4 - D	ND		ug/L	515.4	0-0				MB
	0 2,4,5 - TP (SILVEX)	ND		ug/L	515.4	0-0				MB
	0 DALAPON	ND		ug/L	515.4	0-0				MB
	0 DICAMBA	ND		ug/L	515.4	0-0				MB
	0 DINOSEB	ND		ug/L	515.4	0-0				MB
	0 PENTACHLOROPHENOL	ND		ug/L	515.4	0-0				MB
524_240731	0 1,1 - DICHLOROETHANE	ND		ug/L	524.2	0-0				MB
	0 1,1 - DICHLOROPROPENE	ND		ug/L	524.2	0-0				MB
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	524.2	0-0				MB
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	524.2	0-0				MB
	0 1,2,3 - TRICHLOROBENZENE	ND		ug/L	524.2	0-0				MB
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	524.2	0-0				MB
	0 1,2,4 - TRIMETHYLBENZENE	ND		ug/L	524.2	0-0				MB

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
<b>Method Blank</b>									
524_240731	0 1,3 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB
	0 1,3,5 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 2,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB
	0 BROMOBENZENE	ND		ug/L	524.2		0-0		MB
	0 BROMOCHLOROMETHANE	ND		ug/L	524.2		0-0		MB
	0 BROMOMETHANE	ND		ug/L	524.2		0-0		MB
	0 CHLOROETHANE	ND		ug/L	524.2		0-0		MB
	0 CHLOROMETHANE	ND		ug/L	524.2		0-0		MB
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB
	0 DIBROMOMETHANE	ND		ug/L	524.2		0-0		MB
	0 DICHLORODIFLUOROMETHANE	ND		ug/L	524.2		0-0		MB
	0 HEXACHLOROBUTADIENE	ND		ug/L	524.2		0-0		MB
	0 ISOPROPYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 M - DICHLOROBENZENE	ND		ug/L	524.2		0-0		MB
	0 M/P - XYLENE	ND		ug/L	524.2		0-0		MB
	0 METHYL TERT-BUTYL ETHER	ND		ug/L	524.2		0-0		MB
	0 N - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 N - PROPYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 NAPHTHALENE	ND		ug/L	524.2		0-0		MB
	0 O - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB
	0 O - XYLENE	ND		ug/L	524.2		0-0		MB
	0 P - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB
	0 P - ISOPROPYLTOLUENE	ND		ug/L	524.2		0-0		MB
	0 SEC - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 TERT - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 TRANS- 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB
	0 TRICHLOROFLUOROMETHANE	ND		ug/L	524.2		0-0		MB
	0 BROMODICHLOROMETHANE	ND		ug/L	524.2		0-0		MB
	0 BROMOFORM	ND		ug/L	524.2		0-0		MB
	0 CHLORODIBROMOMETHANE	ND		ug/L	524.2		0-0		MB
	0 CHLOROFORM	ND		ug/L	524.2		0-0		MB
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	524.2		0-0		MB
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	524.2		0-0		MB
	0 1,2 - DICHLOROETHANE	ND		ug/L	524.2		0-0		MB
	0 1,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB
	0 1,2,4 - TRICHLOROBENZENE	ND		ug/L	524.2		0-0		MB
	0 BENZENE	ND		ug/L	524.2		0-0		MB
	0 CARBON TETRACHLORIDE	ND		ug/L	524.2		0-0		MB
	0 CIS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB
	0 DICHLOROMETHANE	ND		ug/L	524.2		0-1		MB
	0 ETHYLBENZENE	ND		ug/L	524.2		0-0		MB
	0 MONOCHLOROBENZENE	ND		ug/L	524.2		0-0		MB

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: **08/27/24**

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Method Blank</b>										
524_240731	0 O - DICHLOROETHANE	ND		ug/L	524.2	0-0			MB	
	0 P - DICHLOROETHANE	ND		ug/L	524.2	0-0			MB	
	0 STYRENE	ND		ug/L	524.2	0-0			MB	
	0 TETRACHLOROETHYLENE	ND		ug/L	524.2	0-0			MB	
	0 TOLUENE	ND		ug/L	524.2	0-0			MB	
	0 TRANS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2	0-0			MB	
	0 TRICHLOROETHYLENE	ND		ug/L	524.2	0-0			MB	
	0 VINYL CHLORIDE	ND		ug/L	524.2	0-0			MB	
	1 1,1 - DICHLOROETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,1 - DICHLOROPROPENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,2,3 - TRICHLOROBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,2,4 - TRIMETHYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,3 - DICHLOROPROPANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 1,3,5 - TRIMETHYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 2,2 - DICHLOROPROPANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 BROMOBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 BROMOCHLOROMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 BROMOMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 CHLOROETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 CHLOROMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 DIBROMOMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 DICHLORODIFLUOROMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 HEXACHLOROBUTADIENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 ISOPROPYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 M - DICHLOROETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 M/P - XYLENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 METHYL TERT-BUTYL ETHER	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 N - BUTYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 N - PROPYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 NAPHTHALENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 O - CHLOROTOLUENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 O - XYLENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 P - CHLOROTOLUENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 P - ISOPROPYLTOLUENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 SEC - BUTYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 TERT - BUTYLBENZENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 TRANS- 1,3 - DICHLOROPROPENE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 TRICHLOROFLUOROMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881
	1 BROMODICHLOROMETHANE	ND		ug/L	524.2	0-0			MB	TB 24-21881

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: **08/27/24**

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Method Blank</b>										
<b>524_240731</b>	1 BROMOFORM	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 CHLORODIBROMOMETHANE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 CHLOROFORM	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,2 - DICHLOROETHANE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,2 - DICHLOROPROPANE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 1,2,4 - TRICHLOROBENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 BENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 CARBON TETRACHLORIDE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 CIS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 DICHLOROMETHANE	ND		ug/L	524.2	0-1		MB		TB 24-21881
	1 ETHYLBENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 MONOCHLOROBENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 O - DICHLOROBENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 P - DICHLOROBENZENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 STYRENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 TETRACHLOROETHYLENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
	1 TOLUENE	ND		ug/L	524.2	0-0		MB		TB 24-21881
1 TRANS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2	0-0		MB		TB 24-21881	
1 TRICHLOROETHYLENE	ND		ug/L	524.2	0-0		MB		TB 24-21881	
1 VINYL CHLORIDE	ND		ug/L	524.2	0-0		MB		TB 24-21881	
<b>525_240808</b>	0 ALACHLOR	ND		ug/L	525.2	0-0		MB		
	0 ALDRIN	ND		ug/L	525.2	0-0		MB		
	0 ATRAZINE	ND		ug/L	525.2	0-0		MB		
	0 BUTACHLOR	ND		ug/L	525.2	0-0		MB		
	0 DI(2-ETHYLHEXYL)-ADIPATE	ND		ug/L	525.2	0-0		MB		
	0 DI(2-ETHYLHEXYL)-PHTHALATE	ND		ug/L	525.2	0-0		MB		
	0 DIELDRIN	ND		ug/L	525.2	0-0		MB		
	0 HEPTACHLOR EPOXIDE "B"	ND		ug/L	525.2	0-0		MB		
	0 METOLACHLOR	ND		ug/L	525.2	0-0		MB		
	0 METRIBUZIN	ND		ug/L	525.2	0-0		MB		
	0 PROPACHLOR	ND		ug/L	525.2	0-0		MB		
	0 SIMAZINE	ND		ug/L	525.2	0-0		MB		
<b>531_240819</b>	0 3-HYDROXYCARBOFURAN	ND		ug/L	531.2	0-0		MB		
	0 ALDICARB	ND		ug/L	531.2	0-0		MB		
	0 ALDICARB SULFONE	ND		ug/L	531.2	0-0		MB		
	0 ALDICARB SULFOXIDE	ND		ug/L	531.2	0-0		MB		
	0 CARBARYL	ND		ug/L	531.2	0-0		MB		
	0 CARBOFURAN	ND		ug/L	531.2	0-0		MB		
	0 METHOMYL	ND		ug/L	531.2	0-0		MB		
	0 OXAMYL (VYDATE)	ND		ug/L	531.2	0-0		MB		

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: **08/27/24**

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC	Comment
<b>Method Blank</b>										
547_240808	0 GLYPHOSATE	ND		ug/L	547		0-0		MB	
548_240805	0 ENDOTHALL	ND		ug/L	548.1		0-0		MB	
549_240805	0 DIQUAT	ND		ug/L	549.2		0-0		MB	
552_240802	1 DIBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1 DICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1 MONOBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1 MONOCHLOROACETIC ACID	ND		ug/L	552.3		0-1		MB	
	1 TRICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
	2 DIBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	2 DICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
	2 MONOBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	2 MONOCHLOROACETIC ACID	ND		ug/L	552.3		0-1		MB	
	2 TRICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
	3 DIBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	Extracted 8/01/2024
	3 DICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	Extracted 8/01/2024
	3 MONOBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	Extracted 8/01/2024
3 MONOCHLOROACETIC ACID	ND		ug/L	552.3		0-1		MB	Extracted 8/01/2024	
3 TRICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	Extracted 8/01/2024	
COLOR_240729	0 COLOR	ND		CU	SM2120 B		0-4		MB	
EC_240729R	0 ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		0-10		MB	
TDS_240730	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TURB_240729	0 TURBIDITY	ND		NTU	180.1		0-0		MB	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Method Detection Limit Sample</b>									
524_240731	0 1,1 - DICHLOROETHANE	0.35	0.4	ug/L	524.2	88	25-175	MDL	
	0 1,1 - DICHLOROPROPENE	0.22	0.4	ug/L	524.2	55	25-175	MDL	
	0 1,1,1,2 - TETRACHLOROETHANE	0.35	0.4	ug/L	524.2	88	25-175	MDL	
	0 1,1,2,2 - TETRACHLOROETHANE	0.45	0.4	ug/L	524.2	113	25-175	MDL	
	0 1,2,3 - TRICHLOROBENZENE	0.21	0.4	ug/L	524.2	53	25-175	MDL	
	0 1,2,3 - TRICHLOROPROPANE	0.48	0.4	ug/L	524.2	120	25-175	MDL	
	0 1,2,4 - TRIMETHYLBENZENE	0.23	0.4	ug/L	524.2	58	25-175	MDL	
	0 1,3 - DICHLOROPROPANE	0.37	0.4	ug/L	524.2	93	25-175	MDL	
	0 1,3,5 - TRIMETHYLBENZENE	0.23	0.4	ug/L	524.2	58	25-175	MDL	
	0 2,2 - DICHLOROPROPANE	0.25	0.4	ug/L	524.2	63	25-175	MDL	
	0 BROMOBENZENE	0.37	0.4	ug/L	524.2	93	25-175	MDL	
	0 BROMOCHLOROMETHANE	0.43	0.4	ug/L	524.2	108	25-175	MDL	
	0 BROMOMETHANE	0.31	0.4	ug/L	524.2	78	25-175	MDL	
	0 CHLOROETHANE	0.35	0.4	ug/L	524.2	88	25-175	MDL	
	0 CHLOROMETHANE	0.41	0.4	ug/L	524.2	103	25-175	MDL	
	0 CIS - 1,3 - DICHLOROPROPENE	0.28	0.4	ug/L	524.2	70	25-175	MDL	
	0 DIBROMOMETHANE	0.35	0.4	ug/L	524.2	88	25-175	MDL	
	0 DICHLORODIFLUOROMETHANE	0.20	0.4	ug/L	524.2	50	25-175	MDL	
	0 HEXACHLOROBUTADIENE	0.28	0.4	ug/L	524.2	70	25-175	MDL	
	0 ISOPROPYLBENZENE	0.18	0.4	ug/L	524.2	45	25-175	MDL	
	0 M - DICHLOROBENZENE	0.34	0.4	ug/L	524.2	85	25-175	MDL	
	0 M/P - XYLENE	0.58	0.8	ug/L	524.2	73	25-175	MDL	
	0 METHYL TERT-BUTYL ETHER	0.29	0.4	ug/L	524.2	73	25-175	MDL	
	0 N - BUTYLBENZENE	0.22	0.4	ug/L	524.2	55	25-175	MDL	
	0 N - PROPYLBENZENE	0.21	0.4	ug/L	524.2	53	25-175	MDL	
	0 NAPHTHALENE	0.19	0.4	ug/L	524.2	48	25-175	MDL	
	0 O - CHLOROTOLUENE	0.26	0.4	ug/L	524.2	65	25-175	MDL	
	0 O - XYLENE	0.23	0.4	ug/L	524.2	58	25-175	MDL	
	0 P - CHLOROTOLUENE	0.34	0.4	ug/L	524.2	85	25-175	MDL	
	0 P - ISOPROPYLTOLUENE	0.20	0.4	ug/L	524.2	50	25-175	MDL	
	0 SEC - BUTYLBENZENE	0.19	0.4	ug/L	524.2	48	25-175	MDL	
	0 TERT - BUTYLBENZENE	0.19	0.4	ug/L	524.2	48	25-175	MDL	
	0 TRANS- 1,3 - DICHLOROPROPENE	0.29	0.4	ug/L	524.2	73	25-175	MDL	
	0 TRICHLOROFUOROMETHANE	0.29	0.4	ug/L	524.2	73	25-175	MDL	
	0 BROMODICHLOROMETHANE	0.33	0.4	ug/L	524.2	83	25-175	MDL	
	0 BROMOFORM	0.39	0.4	ug/L	524.2	98	25-175	MDL	
	0 CHLORODIBROMOMETHANE	0.32	0.4	ug/L	524.2	80	25-175	MDL	
	0 CHLOROFORM	0.34	0.4	ug/L	524.2	85	25-175	MDL	
	0 1,1 - DICHLOROETHYLENE	0.26	0.4	ug/L	524.2	65	25-175	MDL	
	0 1,1,1 - TRICHLOROETHANE	0.25	0.4	ug/L	524.2	63	25-175	MDL	
	0 1,1,2 - TRICHLOROETHANE	0.39	0.4	ug/L	524.2	98	25-175	MDL	
	0 1,2 - DICHLOROETHANE	0.37	0.4	ug/L	524.2	93	25-175	MDL	
	0 1,2 - DICHLOROPROPANE	0.37	0.4	ug/L	524.2	93	25-175	MDL	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
<b>Method Detection Limit Sample</b>										
524_240731	0 1,2,4 - TRICHLOROBENZENE	0.22	0.4	ug/L	524.2	55	25-175			MDL
	0 BENZENE	0.28	0.4	ug/L	524.2	70	25-175			MDL
	0 CARBON TETRACHLORIDE	0.19	0.4	ug/L	524.2	48	25-175			MDL
	0 CIS - 1,2 - DICHLOROETHYLENE	0.35	0.4	ug/L	524.2	88	25-175			MDL
	0 DICHLOROMETHANE	0.52	0.4	ug/L	524.2	130	25-175			MDL
	0 ETHYLBENZENE	0.25	0.4	ug/L	524.2	63	25-175			MDL
	0 MONOCHLOROBENZENE	0.39	0.4	ug/L	524.2	98	25-175			MDL
	0 O - DICHLOROBENZENE	0.38	0.4	ug/L	524.2	95	25-175			MDL
	0 P - DICHLOROBENZENE	0.41	0.4	ug/L	524.2	103	25-175			MDL
	0 STYRENE	0.30	0.4	ug/L	524.2	75	25-175			MDL
	0 TETRACHLOROETHYLENE	0.29	0.4	ug/L	524.2	73	25-175			MDL
	0 TOLUENE	0.33	0.4	ug/L	524.2	83	25-175			MDL
	0 TRANS - 1,2 - DICHLOROETHYLENE	0.25	0.4	ug/L	524.2	63	25-175			MDL
	0 TRICHLOROETHYLENE	0.28	0.4	ug/L	524.2	70	25-175			MDL
	0 VINYL CHLORIDE	0.29	0.4	ug/L	524.2	73	25-175			MDL

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
<b>Quality Control Sample</b>									
1677_240801	0 CYANIDE	0.096	0.100	mg/L	OIA-1677-DW	96	90-110	QCS	
200.7_240730A4	0 ALUMINUM	2.07	2	mg/L	200.7	104	95-105	QCS	
	0 IRON	2.04	2	mg/L	200.7	102	95-105	QCS	
	0 BORON	2.08	2	mg/L	200.7	104	95-105	QCS	
	1 HARDNESS	130	132.3	mg/L	200.7	98	95-105	QCS	
	1 CALCIUM	19.4	20	mg/L	200.7	97	95-105	QCS	
	1 MAGNESIUM	19.9	20	mg/L	200.7	100	95-105	QCS	
	1 POTASSIUM	19.3	20	mg/L	200.7	97	95-105	QCS	
	1 SODIUM	19.8	20	mg/L	200.7	99	95-105	QCS	
200.8_240801A4	0 URANIUM	0.0528	0.0519	mg/L	200.8	102	90-110	QCS	
	0 COPPER	0.0395	0.04	mg/L	200.8	99	90-110	QCS	
	0 MANGANESE	0.039	0.04	mg/L	200.8	98	90-110	QCS	
	0 SILVER	0.0384	0.04	mg/L	200.8	96	90-110	QCS	
	0 ZINC	0.0404	0.04	mg/L	200.8	101	90-110	QCS	
	0 ANTIMONY	0.0384	0.04	mg/L	200.8	96	90-110	QCS	
	0 ARSENIC	0.0389	0.04	mg/L	200.8	97	90-110	QCS	
	0 BARIUM	0.0396	0.04	mg/L	200.8	99	90-110	QCS	
	0 BERYLLIUM	0.0396	0.04	mg/L	200.8	99	90-110	QCS	
	0 CADMIUM	0.039	0.04	mg/L	200.8	98	90-110	QCS	
	0 CHROMIUM	0.0403	0.04	mg/L	200.8	101	90-110	QCS	
	0 LEAD	0.0386	0.04	mg/L	200.8	97	90-110	QCS	
	0 NICKEL	0.0399	0.04	mg/L	200.8	100	90-110	QCS	
	0 SELENIUM	0.0402	0.04	mg/L	200.8	101	90-110	QCS	
	0 THALLIUM	0.0377	0.04	mg/L	200.8	94	90-110	QCS	
245.1_240731	0 MERCURY	0.00254	0.00254	mg/L	245.1	100	90-110	QCS	
300.1_240730A	0 BROMATE	0.0101	0.01	mg/L	300.1	101	85-115	QCS	
	0 CHLORITE	0.0212	0.02	mg/L	300.1	106	85-115	QCS	
	0 BROMIDE	0.100	0.1	mg/L	300.1	100	85-115	QCS	
504_240801	0 1,2 - DIBROMOETHANE (EDB)	1.45	1.37	ug/L	504.1	106	70-130	QCS	
	0 1,2,3 - TRICHLOROPROPANE	1.29	1.11	ug/L	504.1	116	70-130	QCS	
	0 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1.85	1.69	ug/L	504.1	109	70-130	QCS	
515_240802	0 2,4 - D	33.5	31	ug/L	515.4	108	70-130	QCS	
	0 2,4,5 - TP (SILVEX)	80.4	79.2	ug/L	515.4	102	70-130	QCS	
	0 DALAPON	32.5	30.3	ug/L	515.4	107	70-130	QCS	
	0 DICAMBA	88.1	88.4	ug/L	515.4	100	70-130	QCS	
	0 DINOSEB	13.4	12.9	ug/L	515.4	104	70-130	QCS	
	0 PENTACHLOROPHENOL	4.18	4.38	ug/L	515.4	95	70-130	QCS	
	0 PICLORAM	86.0	77.7	ug/L	515.4	111	70-130	QCS	
525_240808	2 ALDRIN	1.50	1.95	ug/L	525.2	77	70-130	QCS	
	2 DIELDRIN	0.72	0.87	ug/L	525.2	83	70-130	QCS	
	2 HEPTACHLOR EPOXIDE "B"	1.20	1.27	ug/L	525.2	94	70-130	QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-21765**

Report Date: 08/27/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Comment
<b>Quality Control Sample</b>									
525_240808	2 PROPACHLOR	6.05	6.06	ug/L	525.2	100	70-130	QCS	
531_240819	1 3-HYDROXYCARBOFURAN	32.6	33	ug/L	531.2	99	70-130	QCS	
	1 ALDICARB	53.9	57.8	ug/L	531.2	93	70-130	QCS	
	1 ALDICARB SULFONE	66.2	69	ug/L	531.2	96	70-130	QCS	
	1 ALDICARB SULFOXIDE	44.4	45.1	ug/L	531.2	98	70-130	QCS	
	1 CARBARYL	64.0	75.5	ug/L	531.2	85	70-130	QCS	
	1 CARBOFURAN	54.7	56	ug/L	531.2	98	70-130	QCS	
	1 METHOMYL	45.4	47.8	ug/L	531.2	95	70-130	QCS	
	1 OXAMYL (VYDATE)	34.9	34.6	ug/L	531.2	101	70-130	QCS	
ALK_240801	0 ALKALINITY	106	100	mg CaCO3/ISM2320 B		106	90-110	QCS	
CL_240729A	0 FREE CHLORINE RESIDUAL	1.31	1.4	mg/L	SM4500-Cl G	94	90-110	QCS	
COLOR_240729	0 COLOR	10	10	CU	SM2120 B	100	90-110	QCS	
EC_240729R	0 ELECTRICAL CONDUCTIVITY	142.8	146.9	uS/cm	SM2510 B	97	90-110	QCS	
IC06_240729A	0 CHLORIDE	6.2	6	mg/L	300.0	103	90-110	QCS	
	0 SULFATE	29.8	30	mg/L	300.0	99	90-110	QCS	
	0 FLUORIDE	4.00	4	mg/L	300.0	100	90-110	QCS	
	0 NITRATE-N	6.17	6	mg/L	300.0	103	90-110	QCS	
	0 NITRITE-N	6.24	6	mg/L	300.0	104	90-110	QCS	
	0 TOTAL NITRATE+NITRITE as N	12.4	12	mg/L	300.0	103	90-110	QCS	
TDS_240730	0 TOTAL DISSOLVED SOLIDS (TDS)	488	500	mg/L	SM2540 C	98	80-120	QCS	
	0 TOTAL DISSOLVED SOLIDS (TDS)	492	500	mg/L	SM2540 C	98	80-120	QCS	
TURB_240729	0 TURBIDITY	0.91	1.00	NTU	180.1	91	90-110	QCS	

\*Notation:

% Recovery = (Result of Analysis)/(True Value) \* 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt



ANALYTICAL



SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
<b>150.1_240729</b>									
E-10139	42198	HYDROGEN ION (pH)	6.17	6.15	pH Units	0.3	0-50		
<b>1677_240801</b>									
57-12-5	42198	CYANIDE	0.0010	ND	mg/L	NA	0-20	IEV	
<b>200.7_240730A4</b>									
7440-23-5	38389	SODIUM	55.7	56.5	mg/L	1.4	0-20		
E-11778	42219	HARDNESS	ND	ND	mg CaCO3/L	NA	0-20		
7429-90-5	42219	ALUMINUM	ND	ND	mg/L	NA	0-20		
7440-42-8	42219	BORON	ND	ND	mg/L	NA	0-20		
7440-70-2	42219	CALCIUM	ND	ND	mg/L	NA	0-20		
7439-89-6	42219	IRON	ND	ND	mg/L	NA	0-20		
7439-95-4	42219	MAGNESIUM	ND	ND	mg/L	NA	0-20		
7440-09-7	42219	POTASSIUM	ND	ND	mg/L	NA	0-20		
7440-23-5	42219	SODIUM	1.2	1.2	mg/L	0.0	0-20		
7429-90-5	42421	ALUMINUM	ND	ND	mg/L	NA	0-20		
7440-42-8	42421	BORON	ND	ND	mg/L	NA	0-20		
7440-70-2	42421	CALCIUM	9.9	9.8	mg/L	1.0	0-20		
E-11778	42421	HARDNESS	38.3	37.6	mg/L	1.8	0-20		
7439-89-6	42421	IRON	2.87	2.86	mg/L	0.3	0-20		
7439-95-4	42421	MAGNESIUM	3.3	3.2	mg/L	3.1	0-20		
7440-09-7	42421	POTASSIUM	4.1	4.0	mg/L	2.5	0-20		
7440-23-5	42421	SODIUM	10.1	10.0	mg/L	1.0	0-20		
E-11778	42509	HARDNESS	63.3	64.0	mg/L	1.1	0-20		
7439-89-6	42509	IRON	ND	ND	mg/L	NA	0-20		
7440-23-5	42509	SODIUM	293	296	mg/L	1.0	0-20		
7439-89-6	42550	IRON	0.39	0.38	mg/L	2.6	0-20		
<b>200.8_240801A4</b>									
7440-50-8	41676	COPPER	ND	ND	mg/L	NA	0-20		
7439-92-1	41676	LEAD	ND	ND	mg/L	NA	0-20		
7440-50-8	41947	COPPER	0.0258	0.0255	mg/L	1.2	0-20		
7439-92-1	41947	LEAD	ND	ND	mg/L	NA	0-20		
7440-50-8	42058	COPPER	ND	ND	mg/L	NA	0-20		
7439-92-1	42058	LEAD	ND	ND	mg/L	NA	0-20		
7440-36-0	42259	ANTIMONY	ND	ND	mg/L	NA	0-20		
7440-38-2	42259	ARSENIC	0.0026	0.0025	mg/L	3.9	0-20		
7440-39-3	42259	BARIUM	0.0256	0.0255	mg/L	0.4	0-20		
7440-47-3	42259	CHROMIUM	ND	ND	mg/L	NA	0-20		
7439-92-1	42259	LEAD	ND	ND	mg/L	NA	0-20		
7439-96-5	42259	MANGANESE	0.0077	0.0076	mg/L	1.3	0-20		
7782-49-2	42259	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-50-8	42275	COPPER	0.134	0.133	mg/L	0.7	0-20		
7439-92-1	42275	LEAD	0.0098	0.0096	mg/L	2.1	0-20		
7440-38-2	42540	ARSENIC	0.0022	0.0022	mg/L	0.0	0-20		
7440-39-3	42540	BARIUM	0.0269	0.0267	mg/L	0.7	0-20		
7440-50-8	42619	COPPER	0.270	0.271	mg/L	0.4	0-20		
7439-92-1	42619	LEAD	ND	ND	mg/L	NA	0-20		
7440-38-2	42659	ARSENIC	0.0029	0.0029	mg/L	0.0	0-20		

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent\_Port.rpt



SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

**Duplicate**

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
7440-39-3	42659	BARIUM	0.0355	0.0354	mg/L	0.3	0-20		
7440-43-9	42659	CADIUM	ND	ND	mg/L	NA	0-20		
7440-47-3	42659	CHROMIUM	ND	ND	mg/L	NA	0-20		
7439-92-1	42659	LEAD	ND	ND	mg/L	NA	0-20		
7782-49-2	42659	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-22-4	42659	SILVER	ND	ND	mg/L	NA	0-20		
7440-38-2	42706	ARSENIC	ND	ND	mg/L	NA	0-20		
7439-92-1	42706	LEAD	ND	ND	mg/L	NA	0-20		
7440-38-2	42890	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-50-8	43155	COPPER	0.216	0.215	mg/L	0.5	0-20		
7439-92-1	43155	LEAD	ND	ND	mg/L	NA	0-20		
7440-50-8	43178	COPPER	45.8	45.7	ppb	0.2	0-20		
7439-92-1	43178	LEAD	ND	ND	ppb	NA	0-20		
<b>300.1_240730A</b>									
24959-67-9	42552	BROMIDE	ND	ND	mg/L	NA	0-20		
7758-19-2	42612	CHLORITE	ND	ND	mg/L	NA	0-20		
<b>524_240731</b>									
75-34-3	42440	1,1 - DICHLOROETHANE	ND	ND	ug/L	NA	0-30		
75-35-4	42440	1,1 - DICHLOROETHYLENE	ND	ND	ug/L	NA	0-30		
563-58-6	42440	1,1 - DICHLOROPROPENE	ND	ND	ug/L	NA	0-30		
71-55-6	42440	1,1,1 - TRICHLOROETHANE	ND	ND	ug/L	NA	0-30		
630-20-6	42440	1,1,1,2 - TETRACHLOROETHANE	ND	ND	ug/L	NA	0-30		
79-00-5	42440	1,1,2 - TRICHLOROETHANE	ND	ND	ug/L	NA	0-30		
79-34-5	42440	1,1,2,2 - TETRACHLOROETHANE	ND	ND	ug/L	NA	0-30		
107-06-2	42440	1,2 - DICHLOROETHANE	ND	ND	ug/L	NA	0-30		
78-87-5	42440	1,2 - DICHLOROPROPANE	ND	ND	ug/L	NA	0-30		
87-61-6	42440	1,2,3 - TRICHLOROBENZENE	ND	ND	ug/L	NA	0-30		
96-18-4	42440	1,2,3 - TRICHLOROPROPANE	ND	ND	ug/L	NA	0-30		
120-82-1	42440	1,2,4 - TRICHLOROBENZENE	ND	ND	ug/L	NA	0-30		
95-63-6	42440	1,2,4 - TRIMETHYLBENZENE	ND	ND	ug/L	NA	0-30		
142-28-9	42440	1,3 - DICHLOROPROPANE	ND	ND	ug/L	NA	0-30		
108-67-8	42440	1,3,5 - TRIMETHYLBENZENE	ND	ND	ug/L	NA	0-30		
542-75-6	42440	1,3-DICHLOROPROPYLENE, TOTAL	ND	ND	ug/L	NA	0-30		
594-20-7	42440	2,2 - DICHLOROPROPANE	ND	ND	ug/L	NA	0-30		
71-43-2	42440	BENZENE	ND	ND	ug/L	NA	0-30		
108-86-1	42440	BROMOBENZENE	ND	ND	ug/L	NA	0-30		
74-97-5	42440	BROMOCHLOROMETHANE	ND	ND	ug/L	NA	0-30		
75-27-4	42440	BROMODICHLOROMETHANE	2.6	2.6	ug/L	0.0	0-30		
75-25-2	42440	BROMOFORM	ND	ND	ug/L	NA	0-30		
74-83-9	42440	BROMOMETHANE	0.5	0.4	ug/L	22.2	0-30		J
56-23-5	42440	CARBON TETRACHLORIDE	ND	ND	ug/L	NA	0-30		
124-48-1	42440	CHLORODIBROMOMETHANE	ND	ND	ug/L	NA	0-30		
75-00-3	42440	CHLOROETHANE	ND	ND	ug/L	NA	0-30		
67-66-3	42440	CHLOROFORM	17.0	16.7	ug/L	1.8	0-30		
74-87-3	42440	CHLOROMETHANE	10.4	10.5	ug/L	1.0	0-30		
156-59-2	42440	CIS - 1,2 - DICHLOROETHYLENE	ND	ND	ug/L	NA	0-30		
10061-01-5	42440	CIS - 1,3 - DICHLOROPROPENE	ND	ND	ug/L	NA	0-30		

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SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

**Duplicate**

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
74-95-3	42440	DIBROMOMETHANE	ND	ND	ug/L	NA	0-30		
75-71-8	42440	DICHLORODIFLUOROMETHANE	ND	ND	ug/L	NA	0-30		
75-09-2	42440	DICHLOROMETHANE	ND	ND	ug/L	NA	0-30		
100-41-4	42440	ETHYLBENZENE	ND	ND	ug/L	NA	0-30		
87-68-3	42440	HEXACHLOROBUTADIENE	ND	ND	ug/L	NA	0-30		
98-82-8	42440	ISOPROPYLBENZENE	ND	ND	ug/L	NA	0-30		
541-73-1	42440	M - DICHLOROBENZENE	ND	ND	ug/L	NA	0-30		
179601-23-1	42440	M/P - XYLENE	ND	ND	ug/L	NA	0-30		
1634-04-4	42440	METHYL TERT-BUTYL ETHER	ND	ND	ug/L	NA	0-30		
108-90-7	42440	MONOCHLOROBENZENE	ND	ND	ug/L	NA	0-30		
104-51-8	42440	N - BUTYLBENZENE	ND	ND	ug/L	NA	0-30		
103-65-1	42440	N - PROPYLBENZENE	ND	ND	ug/L	NA	0-30		
91-20-3	42440	NAPHTHALENE	ND	ND	ug/L	NA	0-30		
95-49-8	42440	O - CHLOROTOLUENE	ND	ND	ug/L	NA	0-30		
95-50-1	42440	O - DICHLOROBENZENE	ND	ND	ug/L	NA	0-30		
95-47-6	42440	O - XYLENE	ND	ND	ug/L	NA	0-30		
106-43-4	42440	P - CHLOROTOLUENE	ND	ND	ug/L	NA	0-30		
106-46-7	42440	P - DICHLOROBENZENE	ND	ND	ug/L	NA	0-30		
99-87-6	42440	P - ISOPROPYLTOLUENE	ND	ND	ug/L	NA	0-30		
135-98-8	42440	SEC - BUTYLBENZENE	ND	ND	ug/L	NA	0-30		
100-42-5	42440	STYRENE	ND	ND	ug/L	NA	0-30		
98-06-6	42440	TERT - BUTYLBENZENE	ND	ND	ug/L	NA	0-30		
127-18-4	42440	TETRACHLOROETHYLENE	ND	ND	ug/L	NA	0-30		
108-88-3	42440	TOLUENE	ND	ND	ug/L	NA	0-30		
E-14471	42440	TOTAL TRIHALOMETHANE	19.6	19.3	ug/L	1.5	0-30		
156-60-5	42440	TRANS - 1,2 - DICHLOROETHYLENE	ND	ND	ug/L	NA	0-30		
10061-02-6	42440	TRANS- 1,3 - DICHLOROPROPENE	ND	ND	ug/L	NA	0-30		
79-01-6	42440	TRICHLOROETHYLENE	ND	ND	ug/L	NA	0-30		
75-69-4	42440	TRICHLOROFLUOROMETHANE	ND	ND	ug/L	NA	0-30		
75-01-4	42440	VINYL CHLORIDE	ND	ND	ug/L	NA	0-30		
1330-20-7	42440	XYLENES (TOTAL)	ND	ND	ug/L	NA	0-30		
<b>552_240802</b>									
631-64-1	42209	DIBROMOACETIC ACID	ND	ND	ug/L	NA	0-30		
79-43-6	42209	DICHLOROACETIC ACID	ND	ND	ug/L	NA	0-30		
NA	42209	HAA(5)	ND	ND	ug/L	NA	0-30		
79-08-3	42209	MONOBROMOACETIC ACID	ND	ND	ug/L	NA	0-30		
79-11-8	42209	MONOCHLOROACETIC ACID	ND	ND	ug/L	NA	0-30		
76-03-9	42209	TRICHLOROACETIC ACID	ND	ND	ug/L	NA	0-30		
631-64-1	42444	DIBROMOACETIC ACID	1.1	0.82	ug/L	29.2	0-30		Extracted 8/1/2024
79-43-6	42444	DICHLOROACETIC ACID	6.6	5.5	ug/L	18.2	0-30		Extracted 8/1/2024
NA	42444	HAA(5)	10.3	8.7	ug/L	16.8	0-30		Extracted 8/1/2024
79-08-3	42444	MONOBROMOACETIC ACID	ND	ND	ug/L	NA	0-30		Extracted 8/1/2024
79-11-8	42444	MONOCHLOROACETIC ACID	ND	ND	ug/L	NA	0-30		Extracted 8/1/2024
76-03-9	42444	TRICHLOROACETIC ACID	2.6	2.4	ug/L	8.0	0-30		Extracted 8/1/2024
<b>ALK_240801</b>									
E-14506	41687	ALKALINITY	698	701	mg CaCO3/L	0.4	0-20		
E-14506	42664	ALKALINITY	482	482	mg CaCO3/L	0.0	0-20		

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SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

**Duplicate**

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
<b>CL_240729A</b>									
	42198	CHLORAMINES TOTAL	ND	ND	mg/L	NA	0-20		
7782-50-5	42198	FREE CHLORINE RESIDUAL	ND	ND	mg/L	NA	0-20		
<b>COLOR_240729</b>									
E-11712	42198	COLOR	ND	ND	COLOR	NA	0-20		
<b>EC_240729R</b>									
E-10184	42118	ELECTRICAL CONDUCTIVITY	228	227	uS/cm	0.4	0-20		
E-10184	42540	ELECTRICAL CONDUCTIVITY	651	655	uS/cm	0.6	0-20		
<b>IC06_240729A</b>									
16984-48-8	42607	FLUORIDE	0.10	0.10	mg/L	0.0	0-20		
14797-55-8	42607	NITRATE-N	4.37	4.38	mg/L	0.2	0-20		
14797-55-8	42683	NITRATE-N	ND	ND	mg/L	NA	0-20		
<b>ODOR_240729</b>									
E-11734	42198	ODOR	ND	ND	TON	NA	0-20		
<b>Taste_240730</b>									
NA	42198	TASTE	ND	ND	FTN	NA	0-10		
<b>TDS_240730</b>									
E-10173	42118	TOTAL DISSOLVED SOLIDS (TDS)	147	147	mg/L	0.0	0-5		
E-10173	42407	TOTAL DISSOLVED SOLIDS (TDS)	142	144	mg/L	1.4	0-5		
<b>TURB_240729</b>									
E-10617	42198	TURBIDITY	ND	ND	NTU	NA	0-20		

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SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

**Laboratory Fortified Matrix (MS)**

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery			%RPD	Limits*	QC Limits*	Qualifier	Comments
								MS	MSD	Limits*					
<b>1677_240801</b>															
57-12-5	42198	CYANIDE	0.0010	0.043	0.046	0.050	mg/L	84	90	70-130	6.9	0-20			
<b>200.7_240730A4</b>															
7440-23-5	38389	SODIUM	55.7	66.6	66.9	13.0	mg/L	84	86	70-130	2.7	0-20			
E-11778	42219	HARDNESS	ND	92.0	92.3	86.0	mg CaCO3/L	107	107	70-130	0.3	0-20			
7429-90-5	42219	ALUMINUM	ND	0.50	0.49	0.50	mg/L	100	98	70-130	2.0	0-20			
7440-42-8	42219	BORON	ND	0.50	0.49	0.50	mg/L	100	98	70-130	2.0	0-20			
7440-70-2	42219	CALCIUM	ND	13.6	13.7	13.0	mg/L	105	105	70-130	0.7	0-20			
7439-89-6	42219	IRON	ND	0.50	0.49	0.50	mg/L	100	98	70-130	2.0	0-20			
7439-95-4	42219	MAGNESIUM	ND	14.1	14.1	13.0	mg/L	108	108	70-130	0.0	0-20			
7440-09-7	42219	POTASSIUM	ND	17.3	17.3	17.5	mg/L	99	99	70-130	0.0	0-20			
7440-23-5	42219	SODIUM	1.2	14.5	14.6	13.0	mg/L	102	103	70-130	0.7	0-20			
7429-90-5	42421	ALUMINUM	ND	0.49	0.49	0.50	mg/L	98	98	70-130	0.0	0-20			
7440-42-8	42421	BORON	ND	0.56	0.53	0.50	mg/L	112	106	70-130	5.5	0-20			
7440-70-2	42421	CALCIUM	9.9	23.1	23.1	13.0	mg/L	102	102	70-130	0.0	0-20			
E-11778	42421	HARDNESS	38.3	128	128	86.0	mg/L	104	104	70-130	0.0	0-20			
7439-89-6	42421	IRON	2.87	3.17	3.23	0.50	mg/L	60	72	70-130	18.2	0-20	IS		
7439-95-4	42421	MAGNESIUM	3.3	17.1	17.2	13.0	mg/L	106	107	70-130	0.7	0-20			
7440-09-7	42421	POTASSIUM	4.1	20.6	20.7	17.5	mg/L	94	95	70-130	0.6	0-20			
7440-23-5	42421	SODIUM	10.1	25.1	22.7	13.0	mg/L	115	97	70-130	17.4	0-20			
E-11778	42509	HARDNESS	63.3	153	153	86.0	mg/L	104	104	70-130	0.0	0-20			
7439-89-6	42509	IRON	ND	0.51	0.51	0.50	mg/L	102	102	70-130	0.0	0-20			
7440-23-5	42509	SODIUM	293	297	300	13.0	mg/L	31	54	70-130	54.5	0-20	IS		
7439-89-6	42550	IRON	0.39	0.88	0.88	0.50	mg/L	98	98	70-130	0.0	0-20			
<b>200.8_240801A4</b>															
7440-50-8	41676	COPPER	0.0039	J 0.0139		0.010	mg/L	100		70-130	NA	0-20			
7439-92-1	41676	LEAD	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20			
7440-50-8	41947	COPPER	0.0258	0.0357		0.010	mg/L	99		70-130	NA	0-20			
7439-92-1	41947	LEAD	ND	0.0113		0.010	mg/L	113		70-130	NA	0-20			
7440-50-8	42058	COPPER	ND	0.0108		0.010	mg/L	108		70-130	NA	0-20			
7439-92-1	42058	LEAD	ND	0.0112		0.010	mg/L	112		70-130	NA	0-20			
7440-36-0	42259	ANTIMONY	ND	0.0098		0.010	mg/L	98		70-130	NA	0-20			
7440-38-2	42259	ARSENIC	0.0026	0.0126		0.010	mg/L	100		70-130	NA	0-20			
7440-39-3	42259	BARIUM	0.0256	0.0346		0.010	mg/L	90		70-130	NA	0-20			
7440-47-3	42259	CHROMIUM	ND	0.0097		0.010	mg/L	97		70-130	NA	0-20			
7439-92-1	42259	LEAD	ND	0.0102		0.010	mg/L	102		70-130	NA	0-20			
7439-96-5	42259	MANGANESE	0.0077	0.0167		0.010	mg/L	90		70-130	NA	0-20			
7782-49-2	42259	SELENIUM	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20			
7440-50-8	42275	COPPER	0.134	0.142		0.010	mg/L	80		70-130	NA	0-20			
7439-92-1	42275	LEAD	0.0098	0.0203		0.010	mg/L	105		70-130	NA	0-20			
7440-38-2	42540	ARSENIC	0.0022	0.0121		0.010	mg/L	99		70-130	NA	0-20			
7440-39-3	42540	BARIUM	0.0269	0.0360		0.010	mg/L	91		70-130	NA	0-20			
7440-50-8	42619	COPPER	0.270	0.276		0.010	mg/L	60		70-130	NA	0-20	IS		
7439-92-1	42619	LEAD	ND	0.0113		0.010	mg/L	113		70-130	NA	0-20			
7440-38-2	42659	ARSENIC	0.0029	0.0128		0.010	mg/L	99		70-130	NA	0-20			
7440-39-3	42659	BARIUM	0.0355	0.0446		0.010	mg/L	91		70-130	NA	0-20			

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SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: **8/27/2024**

**Laboratory Fortified Matrix (MS)**

Batch/CAS	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery			QC		Comments
				Spike Result	Spike Result			MS	MSD	Limits*	%RPD	Limits*	
7440-43-9	42659	CADMIUM	ND	0.0094		0.010	mg/L	94		70-130	NA	0-20	
7440-47-3	42659	CHROMIUM	ND	0.0097		0.010	mg/L	97		70-130	NA	0-20	
7439-92-1	42659	LEAD	ND	0.0089		0.010	mg/L	89		70-130	NA	0-20	
7782-49-2	42659	SELENIUM	ND	0.0099		0.010	mg/L	99		70-130	NA	0-20	
7440-22-4	42659	SILVER	ND	0.0079		0.010	mg/L	79		70-130	NA	0-20	
7440-38-2	42706	ARSENIC	ND	0.0103		0.010	mg/L	103		70-130	NA	0-20	
7439-92-1	42706	LEAD	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20	
7440-38-2	42890	ARSENIC	ND	0.0102		0.010	mg/L	102		70-130	NA	0-20	
7440-50-8	43155	COPPER	0.216	0.223		0.010	mg/L	70		70-130	NA	0-20	
7439-92-1	43155	LEAD	ND	0.0118		0.010	mg/L	118		70-130	NA	0-20	
7440-50-8	43178	COPPER	45.8	55.3		10.0	ppb	95		70-130	NA	0-20	
7439-92-1	43178	LEAD	ND	11.1		10.0	ppb	111		70-130	NA	0-20	
<b>245.1_240731</b>													
7439-97-6	42002	MERCURY	ND	0.00157	0.00156	0.00167	mg/L	94	93	70-130	0.6	0-20	
7439-97-6	42659	MERCURY	ND	0.00161	0.00167	0.00167	mg/L	96	100	70-130	3.7	0-20	
<b>300.1_240730A</b>													
24959-67-9	42552	BROMIDE	ND	0.0110		0.010	mg/L	110		75-125	NA	0-20	
7758-19-2	42612	CHLORITE	ND	0.0099		0.010	mg/L	99		75-125	NA	0-20	
<b>504_240801</b>													
106-93-4	42841	1,2 - DIBROMOETHANE (EDB)	ND	0.24		0.25	ug/L	96	NA	65-135	NA	0-20	
96-18-4	42841	1,2,3 - TRICHLOROPROPANE	ND	0.26		0.25	ug/L	104	NA	65-135	NA	0-20	
96-12-8	42841	1,2-DIBROMO-3-CHLOROPROPA NE (DBCP)	ND	0.27		0.25	ug/L	108	NA	65-135	NA	0-20	
<b>515_240802</b>													
94-75-7	42198	2,4 - D	ND	2.32	2.43	2.5	ug/L	93	97	70-130	4.6	0-20	
93-72-1	42198	2,4,5 - TP (SILVEX)	ND	2.35	2.36	2.5	ug/L	94	94	70-130	0.4	0-20	
75-99-0	42198	DALAPON	ND	2.43	2.32	2.5	ug/L	97	93	70-130	4.6	0-20	
1918-00-9	42198	DICAMBA	ND	2.22	2.41	2.5	ug/L	89	96	70-130	8.2	0-20	
88-85-7	42198	DINOSEB	ND	2.38	2.29	2.5	ug/L	95	92	70-130	3.9	0-20	
87-86-5	42198	PENTACHLOROPHENOL	ND	2.36	2.34	2.5	ug/L	94	94	70-130	0.9	0-20	
1918-02-1	42198	PICLORAM	ND	2.43	2.41	2.5	ug/L	97	96	70-130	0.8	0-20	
<b>525_240808</b>													
15972-60-8	42198	ALACHLOR	ND	2.30		2	ug/L	115	NA	70-130	NA	0-20	
309-00-2	42198	ALDRIN	ND	1.02		1	ug/L	102	NA	70-130	NA	0-20	
1912-24-9	42198	ATRAZINE	ND	2.44		2	ug/L	122	NA	70-130	NA	0-20	
23184-66-9	42198	BUTACHLOR	ND	1.28		1	ug/L	128	NA	70-130	NA	0-20	
103-23-1	42198	DI(2-ETHYLHEXYL)-ADIPATE	ND	1.21		1	ug/L	121	NA	70-130	NA	0-20	
117-81-7	42198	DI(2-ETHYLHEXYL)-PHTHALATE	ND	1.28		1	ug/L	128	NA	70-130	NA	0-20	
60-57-1	42198	DIELDRIN	ND	1.17		1	ug/L	117	NA	70-130	NA	0-20	
1024-57-3	42198	HEPTACHLOR EPOXIDE "B"	ND	1.16		1	ug/L	116	NA	70-130	NA	0-20	
51218-45-2	42198	METOLACHLOR	ND	1.22		1	ug/L	122	NA	70-130	NA	0-20	
21087-64-9	42198	METRIBUZIN	ND	0.91		1	ug/L	91	NA	70-130	NA	0-20	
1918-16-7	42198	PROPACHLOR	ND	1.24		1	ug/L	124	NA	70-130	NA	0-20	
122-34-9	42198	SIMAZINE	ND	1.18		1	ug/L	118	NA	70-130	NA	0-20	
<b>531_240819</b>													
16655-82-6	43274	3-HYDROXYCARBOFURAN	ND	0.0201	0.0200	0.02	mg/L	101	100	70-130	0.5	0-20	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent\_Port.rpt



SAMPLE DEPENDENT  
QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate  
and Confirmation Result Report

Reference Number: **24-21765**

Report Date: 8/27/2024

**Laboratory Fortified Matrix (MS)**

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery			%RPD	Limits*	QC Limits* Qualifier	Comments
								MS	MSD	Limits*				
116-06-3	43274	ALDICARB	ND	0.0190	0.0191	0.02	mg/L	95	96	70-130	0.5	0-20		
1646-88-4	43274	ALDICARB SULFONE	ND	0.0198	0.0200	0.02	mg/L	99	100	70-130	1.0	0-20		
1646-87-3	43274	ALDICARB SULFOXIDE	ND	0.0200	0.0201	0.02	mg/L	100	101	70-130	0.5	0-20		
63-25-2	43274	CARBARYL	ND	0.0191	0.0193	0.02	mg/L	96	97	70-130	1.0	0-20		
1563-66-2	43274	CARBOFURAN	ND	0.0195	0.0197	0.02	mg/L	98	99	70-130	1.0	0-20		
16752-77-5	43274	METHOMYL	ND	0.0197	0.0198	0.02	mg/L	99	99	70-130	0.5	0-20		
23135-22-0	43274	OXAMYL (VYDATE)	ND	0.0201	0.0203	0.02	mg/L	101	102	70-130	1.0	0-20		
<b>547_240808</b>														
1071-83-6	42709	GLYPHOSATE	ND	0.0335		0.04	mg/L	84	NA	81-126	NA	0-20		
1071-83-6	43171	GLYPHOSATE	ND	0.0170		0.02	mg/L	85	NA	81-126	NA	0-20		
<b>548_240805</b>														
145-73-3	42198	ENDOTHALL	ND	3.93		5	ug/L	79	NA	50-150	NA	0-20		
145-73-3	42841	ENDOTHALL	ND	2.09		5	ug/L	42	NA	50-150	NA	0-20	M2	
<b>549_240805</b>														
85-00-7	42209	DIQUAT	ND	18.2		20	ug/L	91	NA	70-130	NA	0-20		
85-00-7	43171	DIQUAT	ND	0.0171		0.020	mg/L	86	NA	70-130	NA	0-20		
<b>552_240802</b>														
631-64-1	42219	DIBROMOACETIC ACID	ND	13.2		12.5	ug/L	106	NA	70-130	NA	0-20		
79-43-6	42219	DICHLOROACETIC ACID	ND	12.6		12.5	ug/L	101	NA	70-130	NA	0-20		
79-08-3	42219	MONOBROMOACETIC ACID	ND	12.5		12.5	ug/L	100	NA	70-130	NA	0-20		
79-11-8	42219	MONOCHLOROACETIC ACID	ND	12.7		12.5	ug/L	102	NA	70-130	NA	0-20		
76-03-9	42219	TRICHLOROACETIC ACID	ND	13.8		12.5	ug/L	110	NA	70-130	NA	0-20		
<b>CL_240729A</b>														
7782-50-5	42198	FREE CHLORINE RESIDUAL	ND	0.52	0.55	0.56	mg/L	93	98	80-120	5.6	0-20		
<b>IC06_240729A</b>														
16984-48-8	42607	FLUORIDE	0.10	1.15		1	mg/L	105		90-110	NA	0-20		
14797-55-8	42607	NITRATE-N	4.37	5.42		1	mg/L	105		90-110	NA	0-20		
14797-55-8	42683	NITRATE-N	ND	1.03		1	mg/L	103		90-110	NA	0-20		

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent\_Port.rpt

## Qualifier Definitions

Reference Number: 24-21765

Report Date: 08/27/24

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the MRL. No sample detections so no further action for this analysis batch.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

# CHAIN OF CUSTODY RECORD 24-21765

42209

\*1108-014-30\*

<b>INVOICE TO/SEND ORIGINAL REPORT TO:</b> <b>Compliance Designs</b> 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318		<b>CLIENT NAME TO APPEAR ON REPORT:</b> Alpine Water GMBH Obertraun 311 4831 Obertraun Austria		<b>LAB USED:</b> Edge Analytical	<b>ORDER #</b>
				<b>TURNAROUND TIME:</b> STND/BUT ASAP	<b>PWS #:</b>
<b>PROJECT NAME:</b> 2024 Annual		<b>PROJECT #:</b> 1108		<b>ANALYSIS REQUIRED</b>	
<b>SAMPLE NUMBER</b>	<b>DATE &amp; TIME OF SAMPLE COLLECTION</b>	<b>SAMPLE DESCRIPTION AND PRODUCTION CODE</b>	<b>NUMBER OF CONTAINERS</b>		
1108-014	N/A	Artesian Finished Product  Produced From: Dachstein Well Source  Size: 21x11x11	50 State Battery With TCP (504), & PFAS		
<b>LAB, PLEASE INDICATE DATE AND TIME BOTTLES OPENED (SAMPLE DATE &amp; TIME)</b>		Prod Code: 09102023KS			
		Line:			
<b>SAMPLER'S SIGNATURE:</b> 		<b>PLEASE PRINT BELOW:</b> Diego orozco	<b>COMPLIANCE CRITERIA:</b> 50 State Compliance		
<b>DATE/TIME</b>	<b>ACCEPTED BY</b>	<b>NOTES TO LABORATORY</b>			
7/19/2024		If multiple shipments indicate shipment <u>1</u> of <u>1</u>			
		UPS REC8 7/25/24 0959			

received one 5gal jug

20.4

# CHAIN OF CUSTODY RECORD 24-21765

42209

\*1108-014-30\*

<b>INVOICE TO/SEND ORIGINAL REPORT TO:</b> <b>Compliance Designs</b> 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318		<b>CLIENT NAME TO APPEAR ON REPORT:</b> Alpine Water GMBH Obertraun 311 4831 Obertraun Austria		<b>LAB USED:</b> Edge Analytical		<b>ORDER #</b>	
				<b>TURNAROUND TIME:</b> STND/BUT ASAP		<b>PWS #:</b>	
<b>PROJECT NAME:</b> 2024 Annual			<b>PROJECT #:</b> 1108		<b>NUMBER OF CONTAINERS</b>		
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE					
1108-014	N/A	Artesian Finished Product			50 State Battery With TCP (504), & PFAS		
		Produced From: Dachstein Well Source					
		Size: 21x11x11					
<b>LAB, PLEASE INDICATE DATE AND TIME BOTTLES OPENED (SAMPLE DATE &amp; TIME)</b>		Prod Code: 09102023KS					
		Line:					
<b>SAMPLER'S SIGNATURE:</b> 		<b>PLEASE PRINT BELOW:</b> Diego orozco		<b>COMPLIANCE CRITERIA:</b> 50 State Compliance			
FINISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY			
	7/19/2024			If multiple shipments indicate shipment <u>1</u> of <u>1</u>			
UPS REC8 7/25/24 0959							

received one 5gal jug

20.4  
P/O 7-29-24 @ 10:05 Jue



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042415909  
Customer ID: EDGA78  
Customer PO:  
Project ID:

**Attn:** Subcontract  
Edge Analytical, Inc.  
1620 South Walnut Street  
Burlington, WA 98233

**Phone:** (360) 757-1400  
**Fax:** (360) 757-1402  
**Received:** 07/31/2024  
**Analyzed:** 08/09/2024

**Proj:** 24-21765

## Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

### ASBESTOS

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm <sup>2</sup> )	Area Analyzed (mm <sup>2</sup> )	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence
									Limits
24-42209	8/1/2024	50	1338	0.1419	None Detected	ND	0.19	<0.19	0.00 - 0.70
042415909-0001	09:19 AM								

MFL (million fibers per liter)

Collection Date/Time: 07/29/2024 10:05 AM

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

Bottle supplied by client.

**Analyst(s)**

Sarah Richey (1)

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 08/09/2024 15:17:13

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as ≤0.01MFL for ≥10µm fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson), 5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.



Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAC NYS ELAP 10872, NJ DEP 03036, FL DOH E87975, PA ID# 68-00367



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Data Reporting  
Edge Analytical, Inc  
1620 S Walnut Street  
Burlington, Washington 98233-3231

Generated 8/5/2024 1:50:22 PM

## JOB DESCRIPTION

24-21765

## JOB NUMBER

380-106269-1

# Eurofins Eaton Analytical Pomona

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

## Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

## Authorization



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8/5/2024 1:50:22 PM

Authorized for release by  
Anisha Zachariah, Project Manager  
[Anisha.Zachariah@et.eurofinsus.com](mailto:Anisha.Zachariah@et.eurofinsus.com)  
(626)386-1142



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# Definitions/Glossary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Edge Analytical, Inc  
Project: 24-21765

Job ID: 380-106269-1

**Job ID: 380-106269-1**

**Eurofins Eaton Analytical Pomona**

## **Job Narrative 380-106269-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### **Receipt**

The sample was received on 7/30/2024 12:27 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

### **LCMS**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### **General Chemistry**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

**Client Sample ID: 24\_42209**

**Lab Sample ID: 380-106269-1**

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

# Client Sample Results

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

**Client Sample ID: 24\_42209**

**Lab Sample ID: 380-106269-1**

Date Collected: 07/29/24 10:05

Matrix: Drinking Water

Date Received: 07/30/24 12:27

## Method: EPA 331.0 - Perchlorate (LC/MS/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.50	ug/L			07/31/24 12:56	1

## General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (EPA 420.4)	ND		1.0	ug/L			08/01/24 15:17	1
Methylene Blue Active Substances (SM 5540C)	ND		0.10	mg/L			07/30/24 17:15	1

# QC Sample Results

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## Method: 331.0 - Perchlorate (LC/MS/MS)

**Lab Sample ID: MBL 380-101557/10**  
**Matrix: Drinking Water**  
**Analysis Batch: 101557**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.50	ug/L			07/31/24 11:26	1

**Lab Sample ID: LCS 380-101557/11**  
**Matrix: Drinking Water**  
**Analysis Batch: 101557**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	19.6	19.5		ug/L		99	80 - 120

**Lab Sample ID: MRL 380-101557/1008**  
**Matrix: Drinking Water**  
**Analysis Batch: 101557**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.490	0.488	J	ug/L		100	50 - 150

**Lab Sample ID: 380-106069-AC-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 101557**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	ND		20.0	19.1		ug/L		94	80 - 120

**Lab Sample ID: 380-106069-AC-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 101557**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	ND		20.0	19.7		ug/L		97	80 - 120	3	20

## Method: 420.4 - Phenolics, Total Recoverable

**Lab Sample ID: MB 380-102296/13**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		1.0	ug/L			08/01/24 14:44	1

**Lab Sample ID: LCS 380-102296/15**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	5.00	4.85		ug/L		97	90 - 110

# QC Sample Results

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## Method: 420.4 - Phenolics, Total Recoverable (Continued)

**Lab Sample ID: LCSD 380-102296/16**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	5.00	4.79		ug/L		96	90 - 110	1	20

**Lab Sample ID: MRL 380-102296/14**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	1.06		ug/L		106	50 - 150

**Lab Sample ID: 380-106076-BD-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	ND		5.00	4.98		ug/L		100	80 - 120

**Lab Sample ID: 380-106076-BD-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 102296**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	ND		5.00	5.00		ug/L		100	80 - 120	0	20

## Method: SM 5540C - Methylene Blue Active Substances (MBAS)

**Lab Sample ID: MBL 380-101440/2**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	ND		0.10	mg/L			07/30/24 17:15	1

**Lab Sample ID: LCS 380-101440/1**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	0.200	0.192		mg/L		96	90 - 110

**Lab Sample ID: LCSD 380-101440/9**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Blue Active Substances	0.200	0.190		mg/L		95	90 - 110	1	20

# QC Sample Results

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

**Lab Sample ID: MRL 380-101440/3**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	0.100	0.0805	J	mg/L		81	75 - 125

**Lab Sample ID: 380-106271-B-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	ND		0.200	0.174		mg/L		87	80 - 120

**Lab Sample ID: 380-106271-B-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 101440**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Blue Active Substances	ND		0.200	0.188		mg/L		94	80 - 120	8	20

# QC Association Summary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## LCMS

### Analysis Batch: 101557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106269-1	24_42209	Total/NA	Drinking Water	331.0	
MBL 380-101557/10	Method Blank	Total/NA	Drinking Water	331.0	
LCS 380-101557/11	Lab Control Sample	Total/NA	Drinking Water	331.0	
MRL 380-101557/1008	Lab Control Sample	Total/NA	Drinking Water	331.0	
380-106069-AC-1 MS	Matrix Spike	Total/NA	Drinking Water	331.0	
380-106069-AC-1 MSD	Matrix Spike Duplicate	Total/NA	Drinking Water	331.0	

## General Chemistry

### Analysis Batch: 101440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106269-1	24_42209	Total/NA	Drinking Water	SM 5540C	
MBL 380-101440/2	Method Blank	Total/NA	Drinking Water	SM 5540C	
LCS 380-101440/1	Lab Control Sample	Total/NA	Drinking Water	SM 5540C	
LCSD 380-101440/9	Lab Control Sample Dup	Total/NA	Drinking Water	SM 5540C	
MRL 380-101440/3	Lab Control Sample	Total/NA	Drinking Water	SM 5540C	
380-106271-B-1 MS	Matrix Spike	Total/NA	Drinking Water	SM 5540C	
380-106271-B-1 MSD	Matrix Spike Duplicate	Total/NA	Drinking Water	SM 5540C	

### Analysis Batch: 102296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106269-1	24_42209	Total/NA	Drinking Water	420.4	
MB 380-102296/13	Method Blank	Total/NA	Drinking Water	420.4	
LCS 380-102296/15	Lab Control Sample	Total/NA	Drinking Water	420.4	
LCSD 380-102296/16	Lab Control Sample Dup	Total/NA	Drinking Water	420.4	
MRL 380-102296/14	Lab Control Sample	Total/NA	Drinking Water	420.4	
380-106076-BD-1 MS	Matrix Spike	Total/NA	Drinking Water	420.4	
380-106076-BD-1 MSD	Matrix Spike Duplicate	Total/NA	Drinking Water	420.4	

# Lab Chronicle

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

**Client Sample ID: 24\_42209**

**Lab Sample ID: 380-106269-1**

**Date Collected: 07/29/24 10:05**

**Matrix: Drinking Water**

**Date Received: 07/30/24 12:27**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	331.0		1	101557	R6YA	EA POM	07/31/24 12:56
Total/NA	Analysis	420.4		1	102296	LQ3M	EA POM	08/01/24 15:17
Total/NA	Analysis	SM 5540C		1	101440	MH2L	EA POM	07/30/24 17:15

**Laboratory References:**

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100



# Accreditation/Certification Summary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

## Laboratory: Eurofins Eaton Analytical Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0833	02-27-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
California	State	2813	06-18-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
Connecticut	State	PH-0107	03-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
Massachusetts	State	M-CA006	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
SM 5540C		Drinking Water	Methylene Blue Active Substances
New Hampshire	NELAP	2959	03-29-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
New Jersey	NELAP	CA008	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
New Mexico	State	CA00006	01-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
331.0		Drinking Water	Perchlorate
420.4		Drinking Water	Phenols, Total
New York	NELAP	11320	04-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
Pennsylvania	NELAP	68-00565	10-31-24

# Accreditation/Certification Summary

Client: Edge Analytical, Inc  
 Project/Site: 24-21765

Job ID: 380-106269-1

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date								
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.											
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;"><u>Analysis Method</u></td> <td style="width: 25%;"><u>Prep Method</u></td> <td style="width: 25%;"><u>Matrix</u></td> <td style="width: 25%;"><u>Analyte</u></td> </tr> <tr> <td>420.4</td> <td></td> <td>Drinking Water</td> <td>Phenols, Total</td> </tr> </table>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>	420.4		Drinking Water	Phenols, Total			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>								
420.4		Drinking Water	Phenols, Total								
Utah	NELAP	CA00006	01-31-25								
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.											
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;"><u>Analysis Method</u></td> <td style="width: 25%;"><u>Prep Method</u></td> <td style="width: 25%;"><u>Matrix</u></td> <td style="width: 25%;"><u>Analyte</u></td> </tr> <tr> <td>420.4</td> <td></td> <td>Drinking Water</td> <td>Phenols, Total</td> </tr> </table>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>	420.4		Drinking Water	Phenols, Total			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>								
420.4		Drinking Water	Phenols, Total								
Vermont	State	VT-0114	12-28-24								
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.											
<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;"><u>Analysis Method</u></td> <td style="width: 25%;"><u>Prep Method</u></td> <td style="width: 25%;"><u>Matrix</u></td> <td style="width: 25%;"><u>Analyte</u></td> </tr> <tr> <td>420.4</td> <td></td> <td>Drinking Water</td> <td>Phenols, Total</td> </tr> </table>	<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>	420.4		Drinking Water	Phenols, Total			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>								
420.4		Drinking Water	Phenols, Total								

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# Method Summary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

Method	Method Description	Protocol	Laboratory
331.0	Perchlorate (LC/MS/MS)	EPA	EA POM
420.4	Phenolics, Total Recoverable	EPA	EA POM
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EA POM

**Protocol References:**

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

**Laboratory References:**

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

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# Sample Summary

Client: Edge Analytical, Inc  
Project/Site: 24-21765

Job ID: 380-106269-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-106269-1	24_42209	Drinking Water	07/29/24 10:05	07/30/24 12:27

- 1
- 2
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- 12
- 13
- 14



Burlington, WA	Corporate Laboratory (d)	1820 S Walnut St	Burlington, WA 98233	800.755.8285 • 360.767.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham WA 98225	360.715.1212
Portland, OR	Microbiology/Chem (d)	8150 SW Pioneer Ct Ste W	Wilsonville, OR 97170	503.682.7802
Corvallis, OR	Microbiology/Chem (d)	640 SW Third Street	Corvallis OR 97333	541.753.4846
Bend, OR	Microbiology/Chem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8426

# Subcontract Work Order

Laboratory Name: EUROFINS Eaton Analytical - Pamona  
 941 Corporate Center Dr  
 Pamona, CA 91768-2642  
 Project: 1108-014 - 50 State Product

Date: 7/29/2024  
 Reference Number: 24-21765  
 Date Due: 8/26/2024

Sample ID: 24_42209	Sample Origin: na	Matrix: Bottled Drinking	Date Sampled: 7/29/2024 10:05
Analyte Name	Units	PQL	

<b>Analytical Method:</b> 331.0	<b>Prep Method:</b>	
PERCHLORATE	mg/L	0.00005
<b>Analytical Method:</b> 420.4	<b>Prep Method:</b>	
TOTAL PHENOLIC COMPOUNDS	ug/L	1
<b>Analytical Method:</b> SM5540 C	<b>Prep Method:</b>	
MBAS (Surfactants)	mg/L	



380-106269 COC

Country of Origin:  
Austria

2.1 - 0.1 = 2 o'C / #631A / ice + Gel / UPS 1Z-V93-0F6-13-6945-5669

Please send results to: [subcontract@edgeanalytical.com](mailto:subcontract@edgeanalytical.com)

  
 Relinquished By  
 7/29/24 13:35  
 Date Time

  
 Received By  
 7/30/24 12:27  
 Date Time

## Login Sample Receipt Checklist

Client: Edge Analytical, Inc

Job Number: 380-106269-1

**Login Number: 106269**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Do, Michelle**

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	





August 06, 2024

Lawrence J. Henderson  
Edge Analytical, Inc.  
1620 S. Walnut St.  
Burlington, WA 98233

RE: Project: 24-21765  
Pace Project No.: 35895615

Dear Lawrence Henderson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero  
martha.montero@pacelabs.com  
(386)672-5668  
Project Manager

Enclosures

cc: Reports, Edge Analytical, Inc.



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: 24-21765

Pace Project No.: 35895615

#### Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 24-21765  
Pace Project No.: 35895615

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35895615001	24_42209	Drinking Water	07/29/24 10:05	08/01/24 11:30

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 24-21765  
Pace Project No.: 35895615

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35895615001	24_42209	EPA 537.1	HL	22	PASI-O

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PASI-O = Pace Analytical Services - Ormond Beach

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 24-21765

Pace Project No.: 35895615

Sample: 24\_42209 Lab ID: 35895615001 Collected: 07/29/24 10:05 Received: 08/01/24 11:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, Water</b>									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	1.5 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	763051-92-9	
9CI-PF3ONS	1.1 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	756426-58-1	
ADONA	0.68 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	919005-14-4	
HFPO-DA	1.5 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	13252-13-6	
NEtFOSAA	0.87 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	2991-50-6	
NMeFOSAA	1.5 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	2355-31-9	
PFBS	0.62 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	375-73-5	
PFDA	0.91 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	335-76-2	
PFHxA	1.2 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	307-24-4	
PFDoA	1.4 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	307-55-1	
PFHpA	0.95 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	375-85-9	
PFHxS	0.69 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	355-46-4	
PFNA	1.8 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	375-95-1	
PFOS	1.1 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	1763-23-1	
PFOA	0.82 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	335-67-1	
PFTeDA	1.8 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	376-06-7	
PFTrDA	1.6 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	72629-94-8	
PFUnA	1.8 U	ng/L	1.8		1	08/02/24 10:55	08/03/24 04:11	2058-94-8	
<b>Surrogates</b>									
13C2-PFDA (S)	92	%	70-130		1	08/02/24 10:55	08/03/24 04:11		
13C2-PFHxA (S)	93	%	70-130		1	08/02/24 10:55	08/03/24 04:11		
NEtFOSAA-d5 (S)	93	%	70-130		1	08/02/24 10:55	08/03/24 04:11		
HFPO-DAS (S)	91	%	70-130		1	08/02/24 10:55	08/03/24 04:11		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 24-21765

Pace Project No.: 35895615

QC Batch: 1031031

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35895615001

METHOD BLANK: 5665266

Matrix: Water

Associated Lab Samples: 35895615001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	1.6 U	2.0	08/03/24 00:14	
9CI-PF3ONS	ng/L	1.2 U	2.0	08/03/24 00:14	
ADONA	ng/L	0.74 U	2.0	08/03/24 00:14	
HFPO-DA	ng/L	1.7 U	2.0	08/03/24 00:14	
NETFOSAA	ng/L	0.95 U	2.0	08/03/24 00:14	
NMeFOSAA	ng/L	1.6 U	2.0	08/03/24 00:14	
PFBS	ng/L	0.68 U	2.0	08/03/24 00:14	
PFDA	ng/L	0.99 U	2.0	08/03/24 00:14	
PFDaA	ng/L	1.5 U	2.0	08/03/24 00:14	
PFHpA	ng/L	1.0 U	2.0	08/03/24 00:14	
PFHxA	ng/L	1.3 U	2.0	08/03/24 00:14	
PFHxS	ng/L	0.75 U	2.0	08/03/24 00:14	
PFNA	ng/L	2.0 U	2.0	08/03/24 00:14	
PFOA	ng/L	0.89 U	2.0	08/03/24 00:14	
PFOS	ng/L	1.2 U	2.0	08/03/24 00:14	
PFTeDA	ng/L	1.9 U	2.0	08/03/24 00:14	
PFTrDA	ng/L	1.8 U	2.0	08/03/24 00:14	
PFUnA	ng/L	2.0 U	2.0	08/03/24 00:14	
13C2-PFDA (S)	%	88	70-130	08/03/24 00:14	
13C2-PFHxA (S)	%	89	70-130	08/03/24 00:14	
HFPO-DAS (S)	%	88	70-130	08/03/24 00:14	
NETFOSAA-d5 (S)	%	91	70-130	08/03/24 00:14	

LABORATORY CONTROL SAMPLE: 5665267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	7.6	7.1	94	70-130	
9CI-PF3ONS	ng/L	7.5	7.3	98	70-130	
ADONA	ng/L	7.6	7.6	100	70-130	
HFPO-DA	ng/L	8	7.7	96	70-130	
NETFOSAA	ng/L	8	7.5	94	70-130	
NMeFOSAA	ng/L	8	7.6	95	70-130	
PFBS	ng/L	7.1	6.7	95	70-130	
PFDA	ng/L	8	7.8	98	70-130	
PFDaA	ng/L	8	7.6	95	70-130	
PFHpA	ng/L	8	8.1	101	70-130	
PFHxA	ng/L	8	8.0	100	70-130	
PFHxS	ng/L	7.3	7.4	102	70-130	
PFNA	ng/L	8	8.0	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 24-21765

Pace Project No.: 35895615

LABORATORY CONTROL SAMPLE: 5665267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFOA	ng/L	8	7.8	98	70-130	
PFOS	ng/L	7.4	6.9	93	70-130	
PFTeDA	ng/L	8	7.2	90	70-130	
PFTTrDA	ng/L	8	7.2	90	70-130	
PFUnA	ng/L	8	7.8	98	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			94	70-130	
HFPO-DAS (S)	%			91	70-130	
NEtFOSAA-d5 (S)	%			96	70-130	

LABORATORY CONTROL SAMPLE: 5665268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	1.9	1.6 I	87	50-150	
9Cl-PF3ONS	ng/L	1.9	1.7 I	90	50-150	
ADONA	ng/L	1.9	1.7 I	92	50-150	
HFPO-DA	ng/L	2	1.8 I	91	50-150	
NEtFOSAA	ng/L	2	1.9 I	94	50-150	
NMeFOSAA	ng/L	2	1.9 I	94	50-150	
PFBS	ng/L	1.8	1.5 I	83	50-150	
PFDA	ng/L	2	1.9 I	93	50-150	
PFDaA	ng/L	2	1.8 I	90	50-150	
PFHpA	ng/L	2	1.8 I	91	50-150	
PFHxA	ng/L	2	1.8 I	92	50-150	
PFHxS	ng/L	1.8	1.8 I	100	50-150	
PFNA	ng/L	2	2.0 U	90	50-150	
PFOA	ng/L	2	1.9 I	94	50-150	
PFOS	ng/L	1.9	1.7 I	92	50-150	
PFTeDA	ng/L	2	1.9 U	86	50-150	
PFTTrDA	ng/L	2	1.8 U	88	50-150	
PFUnA	ng/L	2	2.0 U	89	50-150	
13C2-PFDA (S)	%			93	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			90	70-130	
NEtFOSAA-d5 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 5665286

Parameter	Units	35895611001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	0.0017 U ug/L	7.7	6.9	90	70-130	
9Cl-PF3ONS	ng/L	0.0012 U ug/L	7.6	7.1	93	70-130	
ADONA	ng/L	0.00077 U ug/L	7.7	7.4	96	70-130	
HFPO-DA	ng/L	0.0017 U ug/L	8.1	7.0	87	70-130	
NEtFOSAA	ng/L	0.00099 U ug/L	8.1	7.5	92	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 24-21765

Pace Project No.: 35895615

MATRIX SPIKE SAMPLE: 5665286		35895611001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
NMeFOSAA	ng/L	0.0017 U ug/L	8.1	7.8	96	70-130	
PFBS	ng/L	0.00071 U ug/L	7.2	6.4	89	70-130	
PFDA	ng/L	0.0010 U ug/L	8.1	7.9	97	70-130	
PFDoA	ng/L	0.0015 U ug/L	8.1	7.6	93	70-130	
PFHpA	ng/L	0.0011 U ug/L	8.1	8.0	98	70-130	
PFHxA	ng/L	0.0014 U ug/L	8.1	7.9	97	70-130	
PFHxS	ng/L	0.00078 U ug/L	7.4	7.3	98	70-130	
PFNA	ng/L	0.0021 U ug/L	8.1	7.7	94	70-130	
PFOA	ng/L	0.00093 U ug/L	8.1	7.7	95	70-130	
PFOS	ng/L	0.0013 U ug/L	7.5	7.0	92	70-130	
PFTeDA	ng/L	0.0020 U ug/L	8.1	7.3	90	70-130	
PFTrDA	ng/L	0.0019 U ug/L	8.1	7.6	94	70-130	
PFUnA	ng/L	0.0021 U ug/L	8.1	7.6	93	70-130	
13C2-PFDA (S)	%				95	70-130	
13C2-PFHxA (S)	%				97	70-130	
HFPO-DAS (S)	%				94	70-130	
NEtFOSAA-d5 (S)	%				99	70-130	

SAMPLE DUPLICATE: 5665287

Parameter	Units	35895615001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ng/L	1.5 U	1.5 U		30	
9CI-PF3ONS	ng/L	1.1 U	1.1 U		30	
ADONA	ng/L	0.68 U	0.69 U		30	
HFPO-DA	ng/L	1.5 U	1.5 U		30	
NEtFOSAA	ng/L	0.87 U	0.88 U		30	
NMeFOSAA	ng/L	1.5 U	1.5 U		30	
PFBS	ng/L	0.62 U	0.63 U		30	
PFDA	ng/L	0.91 U	0.92 U		30	
PFDoA	ng/L	1.4 U	1.4 U		30	
PFHpA	ng/L	0.95 U	0.96 U		30	
PFHxA	ng/L	1.2 U	1.2 U		30	
PFHxS	ng/L	0.69 U	0.70 U		30	
PFNA	ng/L	1.8 U	1.9 U		30	
PFOA	ng/L	0.82 U	0.83 U		30	
PFOS	ng/L	1.1 U	1.1 U		30	
PFTeDA	ng/L	1.8 U	1.8 U		30	
PFTrDA	ng/L	1.6 U	1.7 U		30	
PFUnA	ng/L	1.8 U	1.9 U		30	
13C2-PFDA (S)	%	92	93			
13C2-PFHxA (S)	%	93	93			
HFPO-DAS (S)	%	91	92			
NEtFOSAA-d5 (S)	%	93	90			

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 24-21765

Pace Project No.: 35895615

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 24-21765  
Pace Project No.: 35895615

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35895615001	24_42209	EPA 537.1	1031031	EPA 537.1	1031160

---

### REPORT OF LABORATORY ANALYSIS

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Burlington, WA	Corporate Laboratory (f)	1820 S Walnut St	Burlington, WA 98233	800.755.8285 • 360.767.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chem (c)	9150 SW Pioneer Ct Ste W	Wltemville, OR 97070	503.682.7602
Corvallis, OR	Microbiology/Chem (d)	640 SW Third Street	Corvallis, OR 97333	541.753.4846
Bend, OR	Microbiology/Chem (e)	2032 Empire Ave., 6th Fl	Bend, OR 97703	541.639.8425

# Subcontract Work Order

Laboratory Name: Pace Analytical - Ormond Beach FL  
 8 East Tower Circle  
 Ormond Beach, FL 32174  
 Project: 1108-014 - 50 State Product

Date: 7/29/2024  
 Reference Number: 24-21765  
 Date Due: 8/26/2024

Sample ID: 24_42209	Sample Origin: na	Matrix: Bottled Drinking	Date Sampled: 7/29/2024 10:05
Analyte Name	Units	PQL	

Analytical Method: 537.1

Prep Method:

11-CHLOROICOSAFLUORO-3-OXAUNDECANE-1-SULFON	ng/L
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (DONA, ADON)	ng/L
9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC	ng/L
HEXAFLUOROPROPYLENE OXIDE DIMER (HFPO-DA/GENX)	ng/L
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC AC	ng/L
N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC A	ng/L
PERFLUOROBUTANESULFONIC ACID (PFBS)	ng/L
PERFLUORODECANOIC ACID (PFDA)	ng/L
PERFLUORODODECANOIC ACID (PFDOA)	ng/L
PERFLUOROHEPTANOIC ACID (PFHPA)	ng/L
PERFLUOROHEXANESULFONIC ACID (PFHXS)	ng/L
PERFLUOROHEXANOIC ACID (PFHXA)	ng/L
PERFLUORONONANOIC ACID (PFNA)	ng/L
PERFLUOROOCTANESULFONIC ACID (PFOS)	ng/L
PERFLUOROOCTANOIC ACID (PFOA)	ng/L
PERFLUOROTETRADECANOIC ACID (PFTA)	ng/L
PERFLUOROTRIDECANOIC ACID (PFTRDA)	ng/L
PERFLUOROUNDECANOIC ACID (PFUnA)	ng/L

## WO# : 35895615



Country of Origin:  
Austria

DDS 7/31/2024 1332

Subcontract@edgeanalytical.com

Relinquished By

Received By

*JRS/pace*

Date

Time

Date

Time

*8-1-24 1130 4.9*

Pace

WO#: 35895615

Project #  
Project Manager:  
Client:

PM: MIM Due Date: 08/21/24  
CLIENT: EDGANA

Date and Initials of person:

Examining contents: BO

Verifying pH: \_\_\_\_\_

Thermometer Used: T-414

Date: 08-01-24 Time: 1130

Initials: AUT

State of Origin: \_\_\_\_\_

For WV projects, all containers verified to  $\leq 6^{\circ}\text{C}$

Cooler #1 Temp.  $^{\circ}\text{C}$  5.0 (Visual) -0.1 (Correction Factor) 4.9 (Actual)

Cooler #2 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Cooler #3 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Cooler #4 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Cooler #5 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Cooler #6 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Recheck for OOT  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

Samples on ice, cooling process has begun.

Time: \_\_\_\_\_ Initials: \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

Shipping Method:  Standard Overnight  First Overnight  Priority Overnight  Ground  International Priority  Other: \_\_\_\_\_

Billing:  Recipient  Sender  Third Party  Credit Card  Unknown  Other: \_\_\_\_\_

Tracking # 7777 2137 5416

Custody Seal Present:  Yes  No Seal properly placed and intact:  Yes  No

Ice:  Wet  Blue  Dry  None  Melted

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_

Samples shorted to lab:  Yes  No (If yes, complete the following)

Shorted Date: \_\_\_\_\_

Shorted Time: \_\_\_\_\_

Bottle Quantity / Type: \_\_\_\_\_

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A										
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A   Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A										
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments:									
All containers needing acid / base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<table border="1"> <tr> <th colspan="2">Preservation Information</th> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information											
Preservative: _____	Date: _____										
Lot / Trace: _____	Time: _____										
Amount added (mL): _____	Initials: _____										
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										
Exceptions: Vials, Microbiology, O&G, PFAS											
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A										

Comments / Resolutions (use back for additional comments):

Labeled by: BP

Reviewed by: SB

Delivered by: SWD

**Report Prepared for:**

Client Services  
Edge Analytical  
1620 S. Walnut Street  
Burlington WA 98233

**REPORT OF  
LABORATORY  
ANALYSIS FOR  
2,3,7,8-TCDD**

**Report Summary:**

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

**Report Prepared Date:**

August 8, 2024

**Report Information:**

**Pace Project #: 10702195**  
**Sample Receipt Date: 07/31/2024**  
**Client Project #: 24-21765**  
**Client Sub PO #: N/A**  
**State Cert #: N/A**

**Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

**This report has been reviewed by:**



August 08, 2024

Kirsten Hogberg, Project Manager  
(612) 607-6407  
(612) 607-6444 (fax)  
kirsten.hogberg@pacelabs.com



**Report of Laboratory Analysis**

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The results relate only to the samples included in this report.



**Pace Analytical Services, LLC**  
 1700 Elm Street SE  
 Minneapolis, MN 55414  
 Phone: 612.607.1700  
 Fax: 612.607.6444  
 www.pacelabs.com

## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-DW	27700
Colorado	MN00064	North Carolina-WW	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (1700)	CL101
Hawaii	MN00064	Ohio-VAP (1800)	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Secondary	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-DEP	382
Minnesota-Ag	via MN 027-053-137	West Virginia-DW	9952C
Minnesota-Petrofund	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.01

## REPORT OF LABORATORY ANALYSIS

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## Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

## REPORT OF LABORATORY ANALYSIS

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.767.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	MicrobiologyChem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97170	503.682.7802
Corvallis, OR	MicrobiologyChem (d)	640 SW Third Street	Corvallis, OR 97333	541.763.4946
Bend, OR	MicrobiologyChem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

# Subcontract Work Order

Laboratory Name: Pace Analytical Services, Inc.  
 1700 Elm Street  
 Minneapolis, MN 55414  
 Project: 1108-014 - 50 State Product

Date: 7/29/2024  
 Reference Number: 24-21765  
 Date Due: 8/26/2024

Sample ID: 24_42209	Sample Origin: na	Matrix: Bottled Drinking	Date Sampled: 7/29/2024 10:05
Analyte Name	Units	PQL	

<b>Analytical Method:</b> 1613	<b>Prep Method:</b>
DIOXIN (2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN)	pg/L 5

*ca*

Country of Origin:  
Austria

## WO#: 10702195



10702195

Please send results to: [subcontract@edgeanalytical.com](mailto:subcontract@edgeanalytical.com)

*JDS*  
 Relinquished By  
7/30/24 13:27  
 Date Time

*M. J. Pace*  
 Received By  
7/31/24 9:25 4.2°  
 Date Time

ENV-FRM-MIN4-0150 v17\_Sample Condition Upon Receipt

CLIENT NAME: Edge Analytical PROJECT #: \_\_\_\_\_

**WO#: 10702195**

COURIER:  Client  Commercial  FedEx  Pace  
 Speedee  UPS  USPS

PM: KNH Due Date: 08/14/24  
 CLIENT: Edge

TRACKING NUMBER: 12741W421344352840  See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present:  YES  NO Seals Intact:  YES  NO Biological Tissue Frozen:  YES  NO  N/A  
 Packing Material:  Bubble Bags  Bubble Wrap  None  Other Temp Blank:  YES  NO Type of Ice:  Blue  Dry  Wet  
 Thermometer:  T1 (0461)  T2 (0436)  T3 (0459)  T4 (0402)  T5 (0178)  T6 (0235)  Melted  None  
 T7 (0042)  T8 (0775)  T9 (0727)  01339252 (1710)

Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>+0.2</u> Cooler Temp Read w/Temp Blank: _____ °C	Average Corrected Temp (no Temp Blank Only): <u>4.2</u> °C
Cooler Temp Corrected w/Temp Blank: _____ °C	<input checked="" type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: <input checked="" type="checkbox"/> N/A - Water Sample/Other (describe): <u>W4</u>	Initials & Date of Person Examining Contents: <u>MEY 7/31/24</u>
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		6.
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142
Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other				
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.				
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION

Person Contacted: \_\_\_\_\_ Date & Time: \_\_\_\_\_  
 Comments / Resolution: \_\_\_\_\_

FIELD DATA REQUIRED:  YES  NO

Project Manager Review: Kirsten Hogberg

Date: 7/31/2024

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: MEY Line: 4

ENV-FRM-MIN4-0142 v03\_Sample Condition Upon Receipt - Exceptions

Workorder #: 10702195

No Temp Blank		
Read Temp	Corrected Temp	Average temp
4.8	5.0	4.2
5.1	5.3	}
3.0	3.2	
3.0	3.2	

PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO

If anything is OVER 6.0°C, you MUST document containers in this section **HERE**



Tracking Number	Temperature



Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

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**Drinking Water Analysis Results**  
**2,3,7,8-TCDD -- USEPA Method 1613B**

Te612-607-1700  
Fax612-607-6444

Sample ID.....24\_42209  
Client..... Edge Analytical  
Lab Sample ID..... 10702195001

Date Collected.....07/29/2024  
Date Received.....07/31/2024  
Date Extracted.....08/02/2024

	Sample 24_42209	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
LOQ	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	107%	112%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			4.6%	
IS Recovery	77%	70%	62%	60%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	74%	71%	66%	61%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%

Filename	E240805B_06	E240805A_05	E240805A_03	E240805A_04
Analysis Date	08/06/2024	08/05/2024	08/05/2024	08/05/2024
Analysis Time	01:01	12:37	11:32	12:05
Analyst	SMT	SMT	SMT	SMT
Volume	0.971L	0.982L	0.970L	0.982L
Dilution	NA	NA	NA	NA
ICAL Date	04/17/2024	04/17/2024	04/17/2024	04/17/2024
CCAL Filename	E240805B_02	E240805A_02	E240805A_02	E240805A_02

- ! = Outside the Control Limits
- ND = Not Detected
- LOQ = Limit of Quantitation
- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
- RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard [2,3,7,8-TCDD-<sup>13</sup>C<sub>12</sub>]
- CS = Cleanup Standard [2,3,7,8-TCDD-<sup>37</sup>Cl<sub>4</sub>]

Analyst: 

Project No.....10702195



August 21, 2024

Results  
Edge Analytical  
1620 South Walnut Street  
Burlington, WA 98233

RE: Project: 24-21765  
Pace Project No.: 30704697

Dear Results:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carla Cmar  
carla.cmar@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Karen Crowell, Edge Analytical  
Server, Edge Analytical Laboratory



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 24-21765  
Pace Project No.: 30704697

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 24-21765  
Pace Project No.: 30704697

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30704697001	24_42209	Drinking Water	07/29/24 10:05	07/31/24 10:10

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 24-21765  
Pace Project No.: 30704697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30704697001	24_42209	SM 7500RnB-1996	KET	1	PASI-PA
		EPA 900.0	KET	2	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: 24-21765  
Pace Project No.: 30704697

---

**Method:** SM 7500RnB-1996  
**Description:** 7500RnB Radon  
**Client:** EDGE Analytical Laboratories  
**Date:** August 21, 2024

### General Information:

1 sample was analyzed for SM 7500RnB-1996 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 24-21765  
Pace Project No.: 30704697

---

**Method:** EPA 900.0  
**Description:** 900.0 Gross Alpha/Beta  
**Client:** EDGE Analytical Laboratories  
**Date:** August 21, 2024

**General Information:**

1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 24-21765  
Pace Project No.: 30704697

---

**Method:** EPA 903.1  
**Description:** 903.1 Radium 226, DW  
**Client:** EDGE Analytical Laboratories  
**Date:** August 21, 2024

### General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 24-21765  
Pace Project No.: 30704697

---

**Method:** EPA 904.0  
**Description:** 904.0 Radium 228, DW  
**Client:** EDGE Analytical Laboratories  
**Date:** August 21, 2024

### General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 24-21765  
 Pace Project No.: 30704697

**Sample:** 24\_42209      **Lab ID:** 30704697001      Collected: 07/29/24 10:05      Received: 07/31/24 10:10      Matrix: Drinking Water  
**PWS:**      Site ID:      Sample Type:

- Comments:
- Sample collection dates and times were not present on the sample containers.
  - No state location on COC/logged to WA.
  - Received 2 X radon vials.
  - The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radon	SM 7500RnB-1996	<b>-23.3 ± 28.1 (51.2)</b> <b>C:NA T:NA</b>	pCi/L	07/31/24 23:25	10043-92-2	
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	<b>0.494 ± 1.10 (2.59)</b> <b>C:NA T:NA</b>	pCi/L	08/20/24 08:25	12587-46-1	
Gross Beta	EPA 900.0	<b>-0.423 ± 0.592 (1.64)</b> <b>C:NA T:NA</b>	pCi/L	08/20/24 08:25	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>-0.167 ± 0.361 (0.834)</b> <b>C:NA T:97%</b>	pCi/L	08/15/24 12:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.134 ± 0.294 (0.653)</b> <b>C:81% T:90%</b>	pCi/L	08/13/24 11:22	15262-20-1	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 24-21765  
 Pace Project No.: 30704697

---

QC Batch: 687314	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226, DW
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30704697001

---

METHOD BLANK: 3345847 Matrix: Drinking Water

Associated Lab Samples: 30704697001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.298 (0.630) C:NA T:89%	pCi/L	08/15/24 12:31	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 24-21765  
 Pace Project No.: 30704697

---

QC Batch: 687315	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228, DW
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30704697001

---

METHOD BLANK: 3345848 Matrix: Drinking Water

Associated Lab Samples: 30704697001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.770 ± 0.366 (0.694) C:83% T:88%	pCi/L	08/13/24 11:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 24-21765  
 Pace Project No.: 30704697

QC Batch: 686296	Analysis Method: SM 7500RnB-1996
QC Batch Method: SM 7500RnB-1996	Analysis Description: 7500Rn B Radon
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30704697001

METHOD BLANK: 3341001 Matrix: Water

Associated Lab Samples: 30704697001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	7.3 ± 18.8 (32.2) C:NA T:NA	pCi/L	07/31/24 19:22	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 24-21765  
 Pace Project No.: 30704697

QC Batch: 689044	Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0	Analysis Description: 900.0 Gross Alpha/Beta
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30704697001

METHOD BLANK: 3354810 Matrix: Water

Associated Lab Samples: 30704697001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.557 ± 0.591 (1.99) C:NA T:NA	pCi/L	08/20/24 08:25	
Gross Beta	-0.120 ± 0.596 (1.59) C:NA T:NA	pCi/L	08/20/24 08:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 24-21765  
Pace Project No.: 30704697

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 24-21765  
Pace Project No.: 30704697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30704697001	24_42209	SM 7500RnB-1996	686296		
30704697001	24_42209	EPA 900.0	689044		
30704697001	24_42209	EPA 903.1	687314		
30704697001	24_42209	EPA 904.0	687315		

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Burlington, WA	Corporate Laboratory (4)	1820 S Walnut St	Burlington, WA 98233	800.755.8295 - 360.757.1400
Bellingham, WA	Microbiology (6)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	MicrobiologyChem (4)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	MicrobiologyChem (4)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (6)	2032 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

# Subcontract Work Order

Laboratory Name: PACE ANALYTICAL - Radiological Laboratory  
 1638 Roseytown Road  
 Greenburg, PA 15601  
 Project: 1108-014 - 50 State Product

Date: 7/29/2024  
 Reference Number: 24-21765  
 Date Due: 8/26/2024

Sample ID: 24_42209	Sample Origin: na	Matrix: Bottled Drinking	Date Sampled: 7/29/2024 10:05
Analyte Name	Units	PQL	

<u>Analytical Method:</u> 900.0	<u>Prep Method:</u>
GROSS ALPHA	pCi/L
GROSS BETA	pCi/L
<u>Analytical Method:</u> 903.1	<u>Prep Method:</u>
RADIUM 226	pCi/L
<u>Analytical Method:</u> 904.0	<u>Prep Method:</u>
RADIUM 228	pCi/L
<u>Analytical Method:</u> SM7500-Rn B	<u>Prep Method:</u>
RADON	pCi/L

*NEXT DAY AIR*

Country of Origin:  
Austria

## WO# : 30704697



Received by Pace Greensburg  
 Therm ID          Corr Factor +/-           
 Receipt Temp           
 Corrected Temp           
 Correct Preservation

Please send results to: subcontract@edgeanalytical.com

IDS  
 Relinquished By  
7/31/24 13:27  
 Date Time

John Smith - Pace  
 Received By  
7/31/24 10:10  
 Date Time



DC#\_Title: ENV-FRM-GBUR-0088 v07\_Sample Condition Upon Receipt-  
Greensburg

WO#: 30704697

Effective Date: 01/04/2024

PM: CMC

Due Date: 08/21/24

Client Name: Edge

CLIENT: EDGE

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 1Z741W4T1344260121

Examined By: PS 7/31/24

Labeled By: PS 7/31/24  
Temped By: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  Yes  No      Seals Intact:  Yes  No

Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp \_\_\_\_\_ °C      Correction Factor: \_\_\_\_\_ °C      Final Temp: \_\_\_\_\_ °C

Temp should be above freezing to 6°C

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA		
Chain of Custody Present	/				
Chain of Custody Filled Out: -Were client corrections present on COC	/				
Chain of Custody Relinquished	/				
Sampler Name & Signature on COC:		/			
Sample Labels match COC: -Includes date/time/ID Matrix: <u>DW</u>					<u>- no date/time on vials</u>
Samples Arrived within Hold Time:	/				
Short Hold Time Analysis (<72hr remaining):	/				
Rush Turn Around Time Requested:	/				
Sufficient Volume:	/				
Correct Containers Used: -Pace Containers Used	/				
Containers Intact:	/				
Orthophosphate field filtered:			/		
Hex Cr Aqueous samples field filtered:			/		
Organic Samples checked for dichlorination			/		
Filtered volume received for dissolved tests:			/		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, <u>Radon</u> , non-aqueous matrix			/		
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)			/	Lo# of added Preservative	
624.1: Headspace in VOA Vials (0mm)			/		
Radon: Headspace in RAD Vials (0mm)	/				
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed <u>JS</u>	Date: <u>7/31/24</u> Survey Meter SN: <u>25014380</u>
Comments: <u>Received 2x Radon Vials</u>					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen. Qualtrax ID: 55680





Burlington, WA	Corporate Laboratory (d)	120 S Walnut St	Burlington, WA 98233	800.755.8295 • 360.757.1400
Bellingham, WA	Microbiology (b)	605 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	MicrobiologyChem (d)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.662.7602
Corvallis, OR	MicrobiologyChem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

# Subcontract Work Order

Laboratory Name: PACE ANALYTICAL - Radiological Laboratory  
 1638 Roseytown Road  
 Greenburg, PA 15601  
 Project: 1108-014 - 50 State Product

Date: 7/29/2024  
 Reference Number: 24-21765  
 Date Due: 8/26/2024

Sample ID: 24_42209	Sample Origin: na	Matrix: Bottled Drinking	Date Sampled: 7/29/2024 10:05
Analyte Name	Units	PQL	

<u>Analytical Method:</u> 900.0	<u>Prep Method:</u>
GROSS ALPHA	pCi/L
GROSS BETA	pCi/L
<u>Analytical Method:</u> 903.1	<u>Prep Method:</u>
RADIUM 226	pCi/L
<u>Analytical Method:</u> 904.0	<u>Prep Method:</u>
RADIUM 228	pCi/L
<u>Analytical Method:</u> SM7500-Rn B	<u>Prep Method:</u>
RADON	pCi/L

*Handwritten notes: "Expanded" with an arrow pointing to the Radium 226 and Radium 228 rows, and "NEXT DAY" with an arrow pointing to the Radon row.*

Country of Origin:  
Austria

## WO#: 30704697

PM: CMC      Due Date: 08/21/24  
 CLIENT: EDGE

Received by Pace Greensburg  
 Therm ID          Corr factor +/-           
 Receipt Temp           
 Corrected Temp           
 Correct Preservation

Please send results to: [subcontract@edgeanalytical.com](mailto:subcontract@edgeanalytical.com)

IDS  
 Relinquished By  
7/31/24      13:27  
 Date                      Time

[Signature]  
 Received By  
8/5/24      1010  
 Date                      Time


**DC#\_Title: ENV-FRM-GBUR-0088 v07\_Sample Condition Upon Receipt-Greensburg**  
**WO#: 30704697**  
 Effective Date: 01/04/2024  
 PM: CMC Due Date: 08/21/24  
 CLIENT: EDGE

Client Name: Edge

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other  
 Tracking Number: 1Z741WY703 4532 8030

Custody Seal on Cooler/Box Present:  Yes  No  
 Thermometer Used: ✓ Type of Ice: Wet Blue None  
 Cooler Temperature: Observed Temp \_\_\_\_\_ °C Seals Intact:  Yes  No  
 Correction Factor: \_\_\_\_\_ °C Final Temp: \_\_\_\_\_ °C  
 Temp should be above freezing to 6°C

Initial / Date  
 Examined By: PS 8/5/24  
 Labeled By: PS 8/5/24  
 Temped By: \_\_\_\_\_

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				1002931	
Chain of Custody Present	✓				
Chain of Custody Filled Out:	✓				
-Were client corrections present on GOC	✓				
Chain of Custody Relinquished	✓				
Sampler Name & Signature on COC:		✓			
Sample Labels match COC:		✓			
-Includes date/time/ID		✓			
Matrix:			DW		time in bottles = 15:09, 15:09, 15:15
Samples Arrived within Hold Time:	✓				
Short Hold Time Analysis (<72hr remaining):		✓			
Rush Turn Around Time Requested:	✓	✓			
Sufficient Volume:	✓				
Correct Containers Used:	✓				
-Pace Containers Used	✓	✓			
Containers Intact:	✓				
Orthophosphate field filtered:			✓		
Hex Cr Aqueous samples field filtered:			✓		
Organic Samples checked for dichlorination			✓		
Filtered volume received for dissolved tests:			✓		
All containers checked for preservation:	✓				
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PHC2	
All containers meet method preservation requirements:	✓			Initial when completed PS	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			✓		
624.1: Headspace in VOA Vials (0mm)			✓		
Radon: Headspace in RAD Vials (0mm)			✓		
Trip Blank Present:			✓		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed PS	Date: 8/5/24 Survey Meter SN: 25014380
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.  
 PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.  
 Qualtrax ID: 55680