

CLIENT: Shawangunk Bulk Spring Water
1084 Indian Springs Road
Pine Bush, NY 12566

DATE OF REPORT: Quarter 1, 2024
REPORT #: 761-019
LABORATORY ID#: 3354

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 ¹ (mg/L)	RL (mg/L)	SHAWANGUNK SPRING SOURCE 761-019 (mg/L)
Primary Inorganics			
Antimony	0.006	0.001	ND
Arsenic	0.01	0.001	ND
Asbestos	7 MFL	0.17	ND
Barium	2	0.001	0.0149
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 ²	0.10	ND
Lead	0.005	0.001	ND
Mercury	0.002	0.0002	ND
Nickel	0.1	0.001	ND
Nitrogen, Nitrate	10	0.10	0.61
Nitrogen, Nitrite	1.0	0.10	ND
Nitrogen - NO3/NO2 (NOX)	10	0.10	0.61
Selenium	0.05	0.005	ND
Thallium	0.002	0.001	ND
Secondary Inorganics			
Alkalinity	--	2	41.8
Aluminum	0.2	0.010	0.04
Boron	--	0.050	ND
Bromide	--	0.005	0.0121
Calcium	--	0.5	12.2
Chloride	250 ³	0.1	13.4
Copper	1	0.005	ND
Corrosivity	--	--	-2.68
Electrical Conductivity	-- umho/cm	10	133
Foaming Agents (MBAS)	--	0.1	ND
Hardness, Total	--	10	41.2
Iron	0.3 ³	0.050	ND
Magnesium	--	0.5	2.6
Manganese	0.05 ³	0.001	0.001
pH	See endnote ⁴	0.1	6.33
Phenol	0.001	0.001	ND
Potassium	--	1.0	ND
Silver	0.1	0.001	ND
Sodium	--	0.5	10.6
Sulfate	250	0.2	7.5
TDS	500 ^{3,5}	10	73
Zinc	5 ³	0.005	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	SHAWANGUNK SPRING SOURCE 761-019 (mg/L)
Physical			
Color	15 ³ CU	5	ND
Odor	3 ³ TON	1	1
Turbidity	5 NTU	0.10	1.1
Microbiological			
Total Coliform	Absence	1	ND
E. Coli.	Absence	1	ND
Heterotrophic Plate Count	-- cfu/mL	2	ND
Radiologicals			
Gross Alpha	15 pCi/L	2.22	ND
Gross Beta	50 pCi/L ⁵	1.69	ND
Radium 226/228	5 pCi/L	0.741/0.634	ND / ND
Uranium	0.030	0.001	ND
Radon	-- pCi/L	53.1	289.9
Volatile Organic Compounds			
EPA 524.2:			
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)	SHAWANGUNK SPRING SOURCE 761-019 (mg/L)
EPA 524.2 continued:			
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
Add'l Organics			
EPA 504.1:			
1,2-Dibromoethane	0.00005	0.00001	ND
1,2 Dibromo-3-chloropropane	0.0002	0.00002	ND
1,2,3-Trichloropropane	0.00003	0.00002	ND
EPA 508.1:			
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)	SHAWANGUNK SPRING SOURCE 761-019 (mg/L)
EPA 515.4:			
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
EPA 525.2:			
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
EPA 531.2:			
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
EPA 547:			
Glyphosate	0.7	0.006	ND
EPA 548.1:			
Endothall	0.1	0.009	ND
EPA 549.2:			
Diquat	0.02	0.0004	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	SHAWANGUNK SPRING SOURCE 761-019 (mg/L)
EPA 1613: 2,3,7,8-TCDD (DIOXIN)	3x10-8	5x10-9	ND
EPA 524.2: Total Trihalomethanes	0.080	0.0005	ND
Bromodichloromethane	--	0.0005	ND
Bromoform	--	0.0005	ND
Chloroform	--	0.0005	ND
Chlorodibromomethane	--	0.0005	ND
Miscellaneous EPA 331.0: Perchlorate	--	0.00005	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.

¹ 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.

² 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.

³ 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.

⁴ 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.

⁵ 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).



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March 14, 2024

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Shawangunk Bulk Spring Water
1084 Indian Springs Road
Pine Bush, NY 12566

RE: 24-01722 - 761-019 - 50 State Source

Dear Project Manager,

Your project: 761-019 - 50 State Source, was received on Wednesday February 07, 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, reading "Lawrence J Henderson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



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BOTTLED WATER STANDARD OF QUALITY REPORT

Client Name: Shawangunk Bulk Spring Water
1084 Indian Springs Road
Pine Bush, NY 12566

Reference Number: **24-01722**

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Project: 761-019 - 50 State Source
Field ID: 761-019
Sample Description: Shawangunk Spring Source
Sampled By:
Sample Date: 02/06/2024

Lab Number: **3354**
Report Date: 03/12/2024
Sampled Comment:
Approved By: anp,bj,ma,mcs,pdm,tjb

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	0.0149	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	0.61	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	0.61	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.

FORM: cFDA.rpt

BOTTLED WATER STANDARD OF QUALITY REPORT

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Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
7429-90-5	ALUMINUM	0.04	0.2	0.010	mg/L	200.7	a	
16887-00-6	CHLORIDE	13.4	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	0.0010	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	7.5	250	0.2	mg/L	300.0	a	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	73	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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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	
103-23-1	DI(2-ETHYLHEXYL)-ADIPATE	ND	400	0.6	ug/L	525.2	a	
117-81-7	DI(2-ETHYLHEXYL)-PHthalate	ND	6	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		Analyzed by Eurofins Pom CA

Notation:

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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	2,3,3,3-TETRAFLUORO-2-(1,1,2,2,3,3,3-EPTAFLUOROPROPOXY)-PROPANOIC ACID	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-CHLOROHEXADEC AFLUORO-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:

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 .

BOTTLED WATER STANDARD OF QUALITY REPORT

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Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1332-21-4	ASBESTOS	ND	7	0.17	MFL>10um	100.2		Analyzed by EMSL
E-10139	HYDROGEN ION (pH)	6.33			pH Units	150.1	a	Temp (C) : 19.3
NA	TASTE	ND		1	FTN	SM2160 B	a	Temp (C) : 18.1
E-11712	COLOR	ND	15	5	COLOR UNIT	SM2120 B	a	pH: 7
E-11734	ODOR	1	3	1	TON	SM2150	a	Temperature: 41.2 C
E-10617	TURBIDITY	1.1	1	0.10	NTU	180.1	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

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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	
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:

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 .



Reference Number: 24-01722
Lab Number: 3354
Report Date: 03/12/2024

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		Analyzed by Pace
15262-20-1	RADIUM 228	ND	5		pCi/L	904.0		Analyzed by PacePA
7440-61-1	URANIUM	ND	0.030	0.001	mg/L	200.8	a	
14859-67-7	RADON	289.9			pCi/L	SM7500-Rn B		Analyzed by Pace-PA

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 .

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	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

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Additional Inorganic Chemicals (New York)

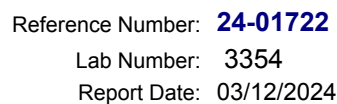
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
E-11778	HARDNESS	41.2		10	mg CaCO3/L	200.7	a	
E-14506	ALKALINITY	41.8		2	mg CaCO3/L	SM2320 B	a	
NA	CORROSIVITY	-2.68			SI	SM203	a	

Notation:

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CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1497-73-0	PERCHLORATE	ND	2	0.05	ug/L	331.0	a	Analyzed by Eurofins Pom CA

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.
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 MRL - Method Reporting Limit .



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Portland, OR Microbiology/Chemistry (c)
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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

Page 1 of 1

Data Report

Client Name: Shawangunk Bulk Spring Water
1084 Indian Springs Road
Pine Bush, NY 12566

Reference Number: **24-01722**
Project: 761-019 - 50 State Source

Report Date: 3/12/24

Date Received: 2/7/24
Approved by: anp,bj,ckk,mcs,mlp
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: 761-019 Shawangunk Spring Source								Matrix SO	Sample Date: 2/6/24 10:45 am			
Lab Number: 3354		Sample Comment:							Collected By:			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-42-8	BORON	ND	0.050	0.006	mg/L	1.0	200.7	a	2/13/24	BJ	200.7_240213A5	
7440-70-2	CALCIUM	12.2	0.5	0.006	mg/L	1.0	200.7	a	2/13/24	BJ	200.7_240213A5	
7439-95-4	MAGNESIUM	2.6	0.5	0.001	mg/L	1.0	200.7	a	2/13/24	BJ	200.7_240213A5	
7440-23-5	SODIUM	10.6	0.5	0.3	mg/L	1.0	200.7	a	2/13/24	BJ	200.7_240213A5	
7440-09-7	POTASSIUM	ND	1.0	0.06	mg/L	1.0	200.7	a	2/13/24	BJ	200.7_240213A5	
24959-67-9	BROMIDE	0.0121	0.005	9.92E-05	mg/L	1.0	300.1	a	2/7/24	BJ	300.1_240207A	
E-10184	ELECTRICAL CONDUCTIVITY	133	10		uS/cm	1.0	SM2510 B	a	2/12/24	EBVP	EC_240212R	
NA	MBAS (Surfactants)	ND	0.1	0.10	mg/L	1.0	SM5540 C		2/7/24	MH2L	Eurofins_240207	Analyzed by Eurofins Pom CA
	HETEROTROPHIC PLATE COUNT	<2	2		MPN/mL	1.0	SM9215 E	b	2/9/24	JLN	HPCS_240207	
Coli-To-t	TOTAL COLIFORM	ABSENT H1	P/A		per 100mL	1.0	SM9223 B/Colilert-18	b	2/8/24	JLN	m_240207b	
68583-22-2	E. COLI	NEG H1	Y/N		per 100mL	1.0	SM9223 B/Colilert-18	b	2/8/24	JLN	m_240207b	

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.

Form: cRslt_2.rpt



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
Calibration Check									
1677_240212	0 CYANIDE	0.105	0.100	mg/L	OIA-1677-DW	105	90-110	CAL	
200.7_240213A5	2 HARDNESS	73.7	72.8	mg/L	200.7	101	90-110	CAL	
	2 ALUMINUM	1.01	1	mg/L	200.7	101	90-110	CAL	
	2 IRON	0.998	1	mg/L	200.7	100	90-110	CAL	
	2 BORON	1	1	mg/L	200.7	100	90-110	CAL	
	2 CALCIUM	11.2	11	mg/L	200.7	102	90-110	CAL	
	2 MAGNESIUM	11.1	11	mg/L	200.7	101	90-110	CAL	
	2 POTASSIUM	10	10	mg/L	200.7	100	90-110	CAL	
	2 SODIUM	11.2	11	mg/L	200.7	102	90-110	CAL	
200.8_240209A4	0 URANIUM	0.00096	0.001	mg/L	200.8	96	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	200.8	100	80-120	CAL	
	0 MANGANESE	0.00102	0.001	mg/L	200.8	102	80-120	CAL	
	0 SILVER	0.00111	0.001	mg/L	200.8	111	80-120	CAL	
	0 ZINC	0.00094	0.001	mg/L	200.8	94	80-120	CAL	
	0 ANTIMONY	0.00099	0.001	mg/L	200.8	99	80-120	CAL	
	0 ARSENIC	0.00095	0.001	mg/L	200.8	95	80-120	CAL	
	0 BARIUM	0.00102	0.001	mg/L	200.8	102	80-120	CAL	
	0 BERYLLIUM	0.00102	0.001	mg/L	200.8	102	80-120	CAL	
	0 CADMIUM	0.00104	0.001	mg/L	200.8	104	80-120	CAL	
	0 CHROMIUM	0.00105	0.001	mg/L	200.8	105	80-120	CAL	
	0 LEAD	0.00104	0.001	mg/L	200.8	104	80-120	CAL	
	0 NICKEL	0.00103	0.001	mg/L	200.8	103	80-120	CAL	
	0 SELENIUM	0.00097	0.001	mg/L	200.8	97	80-120	CAL	
	0 THALLIUM	0.00106	0.001	mg/L	200.8	106	80-120	CAL	
245.1_240220	0 MERCURY	0.00199	0.002	mg/L	245.1	100	95-105	CAL	
300.1_240207A	0 BROMATE	0.00085	0.001	mg/L	300.1	85	75-125	CAL	
	0 BROMIDE	0.00098	0.001	mg/L	300.1	98	75-125	CAL	
	1 BROMATE	0.0046	0.005	mg/L	300.1	92	75-125	CAL	
	1 BROMIDE	0.005	0.005	mg/L	300.1	100	75-125	CAL	
	2 BROMATE	0.0103	0.01	mg/L	300.1	103	75-125	CAL	
	2 BROMIDE	0.0101	0.01	mg/L	300.1	101	75-125	CAL	
	3 BROMATE	0.0147	0.015	mg/L	300.1	98	75-125	CAL	
	3 BROMIDE	0.0158	0.015	mg/L	300.1	105	75-125	CAL	
	4 BROMATE	0.0503	0.05	mg/L	300.1	101	75-125	CAL	
	4 BROMIDE	0.0492	0.05	mg/L	300.1	98	75-125	CAL	
548_240209	0 ENDOTHALL	26.2	25	ug/L	548.1	105	70-130	CAL	
549_240212	0 DIQUAT	20.0	20	ug/L	549.2	100	80-120	CAL	
EC_240212R	0 ELECTRICAL CONDUCTIVITY	103	100	uS/cm	SM2510 B	103	85-115	CAL	
IC05_240207A	0 CHLORIDE	0.9	1	mg/L	300.0	90	90-110	CAL	
	0 SULFATE	1.8	2	mg/L	300.0	90	90-110	CAL	
	0 FLUORIDE	0.94	1	mg/L	300.0	94	90-110	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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Calibration Check										
IC05_240207A	0 NITRATE-N	0.98	1	mg/L	300.0	98	90-110	CAL		
	0 NITRITE-N	0.92	1	mg/L	300.0	92	90-110	CAL		
	0 TOTAL NITRATE+NITRITE as N	1.90	2	mg/L	300.0	95	90-110	CAL		
Turb_240207	0 TURBIDITY	9.50	10.0	NTU	180.1	95	90-110	CAL		
	1 TURBIDITY	9.52	10.0	NTU	180.1	95	90-110	CAL		
	2 TURBIDITY	9.47	10.0	NTU	180.1	95	90-110	CAL		
Low-Level Continuing Calibration Verification										
549_240212	2 DIQUAT	0.40	0.4	ug/L	549.2	100	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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
Laboratory Fortified Blank									
200.7_240213A5	1 HARDNESS	87.3	86	mg/L	200.7	102	85-115	LFB	
	1 ALUMINUM	0.491	0.5	mg/L	200.7	98	85-115	LFB	
	1 IRON	0.495	0.5	mg/L	200.7	99	85-115	LFB	
	1 BORON	0.485	0.5	mg/L	200.7	97	85-115	LFB	
	1 CALCIUM	13.2	13	mg/L	200.7	102	85-115	LFB	
	1 MAGNESIUM	13.2	13	mg/L	200.7	102	85-115	LFB	
	1 POTASSIUM	17.2	17.5	mg/L	200.7	98	85-115	LFB	
	1 SODIUM	13.3	13	mg/L	200.7	102	85-115	LFB	
	2 HARDNESS	45.8	43	mg/L	200.7	107	85-115	LFB	
	2 ALUMINUM	0.265	0.25	mg/L	200.7	106	85-115	LFB	
	2 IRON	0.277	0.25	mg/L	200.7	111	85-115	LFB	
	2 BORON	0.264	0.25	mg/L	200.7	106	85-115	LFB	
	2 CALCIUM	6.8	6.5	mg/L	200.7	105	85-115	LFB	
	2 MAGNESIUM	7	6.5	mg/L	200.7	108	85-115	LFB	
	2 POTASSIUM	8.76	8.75	mg/L	200.7	100	85-115	LFB	
	2 SODIUM	6.9	6.5	mg/L	200.7	106	85-115	LFB	
200.8_240209A4	0 URANIUM	0.0104	0.01	mg/L	200.8	104	85-115	LFB	
	0 COPPER	0.0103	0.01	mg/L	200.8	103	85-115	LFB	
	0 MANGANESE	0.0103	0.01	mg/L	200.8	103	85-115	LFB	
	0 SILVER	0.0105	0.01	mg/L	200.8	105	85-115	LFB	
	0 ZINC	0.0103	0.01	mg/L	200.8	103	85-115	LFB	
	0 ANTIMONY	0.0102	0.01	mg/L	200.8	102	85-115	LFB	
	0 ARSENIC	0.01	0.01	mg/L	200.8	100	85-115	LFB	
	0 BARIUM	0.0102	0.01	mg/L	200.8	102	85-115	LFB	
	0 BERYLLIUM	0.01	0.01	mg/L	200.8	100	85-115	LFB	
	0 CADMIUM	0.0103	0.01	mg/L	200.8	103	85-115	LFB	
	0 CHROMIUM	0.0104	0.01	mg/L	200.8	104	85-115	LFB	
	0 LEAD	0.0106	0.01	mg/L	200.8	106	85-115	LFB	
	0 NICKEL	0.0103	0.01	mg/L	200.8	103	85-115	LFB	
	0 SELENIUM	0.0101	0.01	mg/L	200.8	101	85-115	LFB	
	0 THALLIUM	0.0108	0.01	mg/L	200.8	108	85-115	LFB	
245.1_240220	0 MERCURY	0.00171	0.00167	mg/L	245.1	102	85-115	LFB	
504_240219	0 1,2 - DIBROMOETHANE (EDB)	0.27	0.25	ug/L	504.1	108	70-130	LFB	
	0 1,2,3 - TRICHLOROPROPANE	0.29	0.25	ug/L	504.1	116	70-130	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.28	0.25	ug/L	504.1	112	70-130	LFB	
515_240220	0 2,4 - D	0.543	0.5	ug/L	515.4	109	70-130	LFB	
	0 2,4,5 - TP (SILVEX)	0.515	0.5	ug/L	515.4	103	70-130	LFB	
	0 DICAMBA	0.524	0.5	ug/L	515.4	105	70-130	LFB	
	0 DINOSEB	0.518	0.5	ug/L	515.4	104	70-130	LFB	
	0 PENTACHLOROPHENOL	0.496	0.5	ug/L	515.4	99	70-130	LFB	
	0 PICLORAM	0.444	0.5	ug/L	515.4	89	70-130	LFB	
	1 2,4 - D	2.6	2.5	ug/L	515.4	104	70-130	LFB	

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Laboratory Fortified Blank										
515_240220	1 2,4,5 - TP (SILVEX)	2.6	2.5	ug/L	515.4	104	70-130		LFB	
	1 DALAPON	2.6	2.5	ug/L	515.4	104	70-130		LFB	
	1 DICAMBA	2.5	2.5	ug/L	515.4	100	70-130		LFB	
	1 DINOSEB	2.5	2.5	ug/L	515.4	100	70-130		LFB	
	1 PENTACHLOROPHENOL	2.5	2.5	ug/L	515.4	100	70-130		LFB	
	1 PICLORAM	2.7	2.5	ug/L	515.4	108	70-130		LFB	
524_240208	0 1,1 - DICHLOROETHANE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0 1,1 - DICHLOROPROPENE	9.9	10	ug/L	524.2	99	70-130		LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	11.4	10	ug/L	524.2	114	70-130		LFB	
	0 1,2,3 - TRICHLOROBENZENE	12.3	10	ug/L	524.2	123	70-130		LFB	
	0 1,2,3 - TRICHLOROPROPANE	11.7	10	ug/L	524.2	117	70-130		LFB	
	0 1,2,4 - TRIMETHYLBENZENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0 1,3 - DICHLOROPROPANE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0 1,3,5 - TRIMETHYLBENZENE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0 2,2 - DICHLOROPROPANE	9.4	10	ug/L	524.2	94	70-130		LFB	
	0 BROMOBENZENE	11.0	10	ug/L	524.2	110	70-130		LFB	
	0 BROMOCHLOROMETHANE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0 BROMOMETHANE	8.3	10	ug/L	524.2	83	70-130		LFB	
	0 CHLOROETHANE	9.4	10	ug/L	524.2	94	70-130		LFB	
	0 CHLOROMETHANE	7.8	10	ug/L	524.2	78	70-130		LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	10.1	10	ug/L	524.2	101	70-130		LFB	
	0 DIBROMOMETHANE	10.3	10	ug/L	524.2	103	70-130		LFB	
	0 DICHLORODIFLUOROMETHANE	7.0	10	ug/L	524.2	70	70-130		LFB	
	0 HEXACHLOROBUTADIENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0 ISOPROPYLBENZENE	10.6	10	ug/L	524.2	106	70-130		LFB	
	0 M - DICHLOROBENZENE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0 M/P - XYLENE	21.0	20	ug/L	524.2	105	70-130		LFB	
	0 METHYL TERT-BUTYL ETHER	10.9	10	ug/L	524.2	109	70-130		LFB	
	0 N - BUTYLBENZENE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0 N - PROPYLBENZENE	10.3	10	ug/L	524.2	103	70-130		LFB	
	0 NAPHTHALENE	12.3	10	ug/L	524.2	123	70-130		LFB	
	0 O - CHLOROTOLUENE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0 O - XYLENE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0 P - CHLOROTOLUENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0 P - ISOPROPYLTOLUENE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0 SEC - BUTYLBENZENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0 TERT - BUTYLBENZENE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0 TRANS- 1,3 - DICHLOROPROPENE	10.3	10	ug/L	524.2	103	70-130		LFB	
	0 TRICHLOROFLUOROMETHANE	9.3	10	ug/L	524.2	93	70-130		LFB	
	0 BROMODICHLOROMETHANE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0 BROMOFORM	11.2	10	ug/L	524.2	112	70-130		LFB	
	0 CHLORODIBROMOMETHANE	10.7	10	ug/L	524.2	107	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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
Laboratory Fortified Blank									
524_240208	0 CHLOROFORM	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 1,1 - DICHLOROETHYLENE	9.7	10	ug/L	524.2	97	70-130	LFB	
	0 1,1,1 - TRICHLOROETHANE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 1,1,2 - TRICHLOROETHANE	10.1	10	ug/L	524.2	101	70-130	LFB	
	0 1,2 - DICHLOROETHANE	10.3	10	ug/L	524.2	103	70-130	LFB	
	0 1,2 - DICHLOROPROPANE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 1,2,4 - TRICHLOROBENZENE	11.8	10	ug/L	524.2	118	70-130	LFB	
	0 BENZENE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 CARBON TETRACHLORIDE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 CIS - 1,2 - DICHLOROETHYLENE	10.2	10	ug/L	524.2	102	70-130	LFB	
	0 DICHLOROMETHANE	10.5	10	ug/L	524.2	105	70-130	LFB	
	0 ETHYLBENZENE	10.4	10	ug/L	524.2	104	70-130	LFB	
	0 MONOCHLOROBENZENE	10.0	10	ug/L	524.2	100	70-130	LFB	
	0 O - DICHLOROBENZENE	11.0	10	ug/L	524.2	110	70-130	LFB	
	0 P - DICHLOROBENZENE	10.9	10	ug/L	524.2	109	70-130	LFB	
	0 STYRENE	10.6	10	ug/L	524.2	106	70-130	LFB	
	0 TETRACHLOROETHYLENE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 TOLUENE	9.6	10	ug/L	524.2	96	70-130	LFB	
	0 TRANS - 1,2 - DICHLOROETHYLENE	9.9	10	ug/L	524.2	99	70-130	LFB	
	0 TRICHLOROETHYLENE	9.8	10	ug/L	524.2	98	70-130	LFB	
	0 VINYL CHLORIDE	8.3	10	ug/L	524.2	83	70-130	LFB	
525_240215	0 ALACHLOR	2.03	2	ug/L	525.2	102	70-130	LFB	
	0 ALDRIN	0.81	1	ug/L	525.2	81	70-130	LFB	
	0 ATRAZINE	2.17	2	ug/L	525.2	109	70-130	LFB	
	0 BUTACHLOR	1.02	1	ug/L	525.2	102	70-130	LFB	
	0 DI(2-ETHYLHEXYL)-ADIPATE	1.04	1	ug/L	525.2	104	70-130	LFB	
	0 DI(2-ETHYLHEXYL)-PHTHALATE	1.22	1	ug/L	525.2	122	70-130	LFB	
	0 DIELDRIN	0.96	1	ug/L	525.2	96	70-130	LFB	
	0 HEPTACHLOR EPOXIDE "B"	1.00	1	ug/L	525.2	100	70-130	LFB	
	0 METOLACHLOR	0.97	1	ug/L	525.2	97	70-130	LFB	
	0 METRIBUZIN	0.60	1	ug/L	525.2	60	70-130	LR	LFB
	0 PROPACHLOR	0.96	1	ug/L	525.2	96	70-130	LFB	
	0 SIMAZINE	0.91	1	ug/L	525.2	91	70-130	LFB	
531_240220	0 3-HYDROXYCARBOFURAN	18.3	20	ug/L	531.2	92	70-130	LFB	
	0 ALDICARB	17.6	20	ug/L	531.2	88	70-130	LFB	
	0 ALDICARB SULFONE	19.7	20	ug/L	531.2	99	70-130	LFB	
	0 ALDICARB SULFOXIDE	19.8	20	ug/L	531.2	99	70-130	LFB	
	0 CARBARYL	16.9	20	ug/L	531.2	85	70-130	LFB	
	0 CARBOFURAN	17.9	20	ug/L	531.2	90	70-130	LFB	
	0 METHOMYL	18.7	20	ug/L	531.2	94	70-130	LFB	
	0 OXAMYL (VYDATE)	19.3	20	ug/L	531.2	97	70-130	LFB	
547_240229	0 GLYPHOSATE	18.9	20	ug/L	547	95	81-126	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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Laboratory Fortified Blank										
547_240229	1 GLYPHOSATE	37.9	40	ug/L	547	95	81-126	LFB		
	2 GLYPHOSATE	18.6	20	ug/L	547	93	81-126	LFB		
548_240209	0 ENDOTHALL	21.4	20	ug/L	548.1	107	50-121	LFB		
549_240212	0 DIQUAT	17.2	20	ug/L	549.2	86	70-130	LFB		
ALK_240212	0 ALKALINITY	101	100	mg CaCO3/ISM2320 B		101	90-110	LFB		
EC_240212R	0 ELECTRICAL CONDUCTIVITY	103	100	uS/cm	SM2510 B	103	90-110	LFB		

*Notation:

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FORM: QCIndependent4.rpt



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Low-Level Lab Fortified Blank										
504_240219	1 1,2 - DIBROMOETHANE (EDB)	0.009	0.01	ug/L	504.1	90	60-140	LLFB		
	1 1,2,3 - TRICHLOROPROPANE	0.01	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_240220	0 2,4 - D	0.103	0.1	ug/L	515.4	103	50-150	LLFB		
	0 2,4,5 - TP (SILVEX)	0.101	0.1	ug/L	515.4	101	50-150	LLFB		
	0 DALAPON	0.417	0.5	ug/L	515.4	83	50-150	LLFB		
	0 DICAMBA	0.097	0.1	ug/L	515.4	97	50-150	LLFB		
	0 DINOSEB	0.099	0.1	ug/L	515.4	99	50-150	LLFB		
	0 PENTACHLOROPHENOL	0.098	0.1	ug/L	515.4	98	50-150	LLFB		
	0 PICLORAM	0.085	0.1	ug/L	515.4	85	50-150	LLFB		
	1 PENTACHLOROPHENOL	0.044	0.04	ug/L	515.4	110	50-150	LLFB		
525_240215	0 ALACHLOR	0.16	0.2	ug/L	525.2	80	50-150	LLFB		
	0 ALDRIN	0.08	0.1	ug/L	525.2	80	50-150	LLFB		
	0 ATRAZINE	0.21	0.2	ug/L	525.2	105	50-150	LLFB		
	0 BUTACHLOR	0.07	0.1	ug/L	525.2	70	50-150	LLFB		
	0 DI(2-ETHYLHEXYL)-ADIPATE	0.11	0.1	ug/L	525.2	110	50-150	LLFB		
	0 DI(2-ETHYLHEXYL)-PHTHALATE	0.55	0.5	ug/L	525.2	110	50-150	LLFB		
	0 DIELDRIN	0.15	0.1	ug/L	525.2	150	50-150	LLFB		
	0 HEPTACHLOR EPOXIDE "B"	0.12	0.1	ug/L	525.2	120	50-150	LLFB		
	0 METOLACHLOR	0.09	0.1	ug/L	525.2	90	50-150	LLFB		
	0 METRIBUZIN	0.06	0.1	ug/L	525.2	60	50-150	LLFB		
	0 PROPACHLOR	0.10	0.1	ug/L	525.2	100	50-150	LLFB		
	0 SIMAZINE	0.08	0.1	ug/L	525.2	80	50-150	LLFB		
531_240220	0 3-HYDROXYCARBOFURAN	0.45	0.5	ug/L	531.2	90	50-150	LLFB		
	0 ALDICARB	0.49	0.5	ug/L	531.2	98	50-150	LLFB		
	0 ALDICARB SULFONE	0.50	0.5	ug/L	531.2	100	50-150	LLFB		
	0 ALDICARB SULFOXIDE	0.51	0.5	ug/L	531.2	102	50-150	LLFB		
	0 CARBARYL	0.39	0.5	ug/L	531.2	78	50-150	LLFB		
	0 CARBOFURAN	0.38	0.5	ug/L	531.2	76	50-150	LLFB		
	0 METHOMYL	0.43	0.5	ug/L	531.2	86	50-150	LLFB		
	0 OXAMYL (VYDATE)	0.43	0.5	ug/L	531.2	86	50-150	LLFB		
547_240229	0 GLYPHOSATE	2.68	5	ug/L	547	54	50-150	LLFB		
548_240209	0 ENDOTHALL	5.0	5	ug/L	548.1	100	50-150	LLFB		
549_240212	0 DIQUAT	0.29	0.4	ug/L	549.2	73	50-150	LLFB		

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Laboratory Reagent Blank										
1677_240212	0 CYANIDE	ND		mg/L	OIA-1677-DW	0-0		LRB		
200.7_240213A5	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_240209A4	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		
300.1_240207A	0 BROMATE	ND		mg/L	300.1	0-0		LRB		
	0 BROMIDE	ND		mg/L	300.1	0-0		LRB		
ALK_240212	0 ALKALINITY	ND		mg CaCO3/ISM2320 B		0-1		LRB		
	1 ALKALINITY	ND		mg CaCO3/ISM2320 B		0-1		LRB		
IC05_240207A	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:

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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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Blank										
200.7_240213A5	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_240209A4	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	
245.1_240220	0 MERCURY	ND		mg/L	245.1		0-0		MB	
504_240219	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_240215	0 CHLORDANE	ND		ug/L	508.1		0-0		MB	
	0 TOXAPHENE	ND		ug/L	508.1		0-0		MB	
515_240220	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	
	0 PICLORAM	ND		ug/L	515.4		0-0		MB	
524_240208	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	

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Blank										
524_240208	0 1,2,4 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB	
	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 - DICHLOROENZENE	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 - TRICHLOROENZENE	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	

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Blank										
524_240208	0 MONOCHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0 O - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0 P - DICHLOROETHYLENE	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 24-00558
	1 1,1 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,2,3 - TRICHLOROETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,2,4 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,3 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 1,3,5 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 2,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 BROMOBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 BROMOCHLOROMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 BROMOMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 CHLOROETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 CHLOROMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 DIBROMOMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 DICHLORODIFLUOROMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 HEXACHLOROBUTADIENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 ISOPROPYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 M - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 M/P - XYLENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 METHYL TERT-BUTYL ETHER	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 N - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 N - PROPYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 NAPHTHALENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 O - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 O - XYLENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 P - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 P - ISOPROPYLTOLUENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 SEC - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 TERT - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 TRANS- 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	TB 24-00558
	1 TRICHLOROFLUOROMETHANE	ND		ug/L	524.2		0-0		MB	TB 24-00558

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Blank										
524_240208	1 BROMODICHLOROMETHANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 BROMOFORM	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 CHLORODIBROMOMETHANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 CHLOROFORM	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,2 - DICHLOROETHANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 1,2,4 - TRICHLOROBENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 BENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 CARBON TETRACHLORIDE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 CIS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 DICHLOROMETHANE	ND		ug/L	524.2		0-1	MB		TB 24-00558
	1 ETHYLBENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 MONOCHLOROBENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 O - DICHLOROBENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 P - DICHLOROBENZENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 STYRENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 TETRACHLOROETHYLENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 TOLUENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 TRANS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 TRICHLOROETHYLENE	ND		ug/L	524.2		0-0	MB		TB 24-00558
	1 VINYL CHLORIDE	ND		ug/L	524.2		0-0	MB		TB 24-00558
525_240215	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		
531_240220	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		

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Blank										
531_240220	0 OXAMYL (VYDATE)	ND		ug/L	531.2		0-0		MB	
547_240229	0 GLYPHOSATE	ND		ug/L	547		0-0		MB	
548_240209	0 ENDOTHALL	ND		ug/L	548.1		0-0		MB	
549_240212	0 DIQUAT	ND		ug/L	549.2		0-0		MB	
Color_240207	0 COLOR	ND		CU	SM2120 B		0-4		MB	
EC_240212R	0 ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		0-10		MB	
TDS_240212	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_240207	0 TURBIDITY	ND		NTU	180.1		0-0		MB	

*Notation:

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FORM: QCIndependent4.rpt



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Detection Limit Sample										
524_240208	0 1,1 - DICHLOROETHANE	0.36	0.4	ug/L	524.2	90	25-175		MDL	
	0 1,1 - DICHLOROPROPENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0 1,1,1,2 - TETRACHLOROETHANE	0.41	0.4	ug/L	524.2	103	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	0.30	0.4	ug/L	524.2	75	25-175		MDL	
	0 1,2,3 - TRICHLOROPROPANE	0.49	0.4	ug/L	524.2	123	25-175		MDL	
	0 1,2,4 - TRIMETHYLBENZENE	0.37	0.4	ug/L	524.2	93	25-175		MDL	
	0 1,3 - DICHLOROPROPANE	0.39	0.4	ug/L	524.2	98	25-175		MDL	
	0 1,3,5 - TRIMETHYLBENZENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0 2,2 - DICHLOROPROPANE	0.25	0.4	ug/L	524.2	63	25-175		MDL	
	0 BROMOBENZENE	0.39	0.4	ug/L	524.2	98	25-175		MDL	
	0 BROMOCHLOROMETHANE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0 BROMOMETHANE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 CHLOROETHANE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 CHLOROMETHANE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 CIS - 1,3 - DICHLOROPROPENE	0.29	0.4	ug/L	524.2	73	25-175		MDL	
	0 DIBROMOMETHANE	0.48	0.4	ug/L	524.2	120	25-175		MDL	
	0 DICHLORODIFLUOROMETHANE	0.35	0.4	ug/L	524.2	88	25-175		MDL	
	0 HEXACHLOROBUTADIENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 ISOPROPYLBENZENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 M - DICHLOROBENZENE	0.36	0.4	ug/L	524.2	90	25-175		MDL	
	0 M/P - XYLENE	0.69	0.8	ug/L	524.2	86	25-175		MDL	
	0 METHYL TERT-BUTYL ETHER	0.46	0.4	ug/L	524.2	115	25-175		MDL	
	0 N - BUTYLBENZENE	0.25	0.4	ug/L	524.2	63	25-175		MDL	
	0 N - PROPYLBENZENE	0.22	0.4	ug/L	524.2	55	25-175		MDL	
	0 NAPHTHALENE	0.28	0.4	ug/L	524.2	70	25-175		MDL	
	0 O - CHLOROTOLUENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0 O - XYLENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0 P - CHLOROTOLUENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0 P - ISOPROPYLTOLUENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0 SEC - BUTYLBENZENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 TERT - BUTYLBENZENE	0.35	0.4	ug/L	524.2	88	25-175		MDL	
	0 TRANS- 1,3 - DICHLOROPROPENE	0.37	0.4	ug/L	524.2	93	25-175		MDL	
	0 TRICHLOROFLUOROMETHANE	0.23	0.4	ug/L	524.2	58	25-175		MDL	
	0 BROMODICHLOROMETHANE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0 BROMOFORM	0.45	0.4	ug/L	524.2	113	25-175		MDL	
	0 CHLORODIBROMOMETHANE	0.46	0.4	ug/L	524.2	115	25-175		MDL	
	0 CHLOROFORM	0.39	0.4	ug/L	524.2	98	25-175		MDL	
	0 1,1 - DICHLOROETHYLENE	0.30	0.4	ug/L	524.2	75	25-175		MDL	
	0 1,1,1 - TRICHLOROETHANE	0.29	0.4	ug/L	524.2	73	25-175		MDL	
	0 1,1,2 - TRICHLOROETHANE	0.46	0.4	ug/L	524.2	115	25-175		MDL	
	0 1,2 - DICHLOROETHANE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0 1,2 - DICHLOROPROPANE	0.39	0.4	ug/L	524.2	98	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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Detection Limit Sample										
524_240208	0 1,2,4 - TRICHLOROBENZENE	0.30	0.4	ug/L	524.2	75	25-175		MDL	
	0 BENZENE	0.31	0.4	ug/L	524.2	78	25-175		MDL	
	0 CARBON TETRACHLORIDE	0.27	0.4	ug/L	524.2	68	25-175		MDL	
	0 CIS - 1,2 - DICHLOROETHYLENE	0.35	0.4	ug/L	524.2	88	25-175		MDL	
	0 DICHLOROMETHANE	0.24	0.4	ug/L	524.2	60	25-175		MDL	
	0 ETHYLBENZENE	0.36	0.4	ug/L	524.2	90	25-175		MDL	
	0 MONOCHLOROBENZENE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0 O - DICHLOROBENZENE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0 P - DICHLOROBENZENE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0 STYRENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0 TETRACHLOROETHYLENE	0.29	0.4	ug/L	524.2	73	25-175		MDL	
	0 TOLUENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0 TRANS - 1,2 - DICHLOROETHYLENE	0.32	0.4	ug/L	524.2	80	25-175		MDL	
	0 TRICHLOROETHYLENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0 VINYL CHLORIDE	0.26	0.4	ug/L	524.2	65	25-175		MDL	
Method Reporting Limit										
548_240209	1 ENDOTHALL	5.4	5	ug/L	548.1	108	50-150		MRL	

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
Quality Control Sample									
1677_240212	0 CYANIDE	0.108	0.100	mg/L	OIA-1677-DW	108	90-110	QCS	
200.7_240213A5	0 ALUMINUM	1.94	2	mg/L	200.7	97	95-105	QCS	
	0 IRON	1.93	2	mg/L	200.7	97	95-105	QCS	
	0 BORON	1.91	2	mg/L	200.7	96	95-105	QCS	
	1 HARDNESS	127	132.3	mg/L	200.7	96	95-105	QCS	
	1 CALCIUM	19.1	20	mg/L	200.7	96	95-105	QCS	
	1 MAGNESIUM	19.3	20	mg/L	200.7	97	95-105	QCS	
	1 POTASSIUM	20	20	mg/L	200.7	100	95-105	QCS	
	1 SODIUM	20.8	20	mg/L	200.7	104	95-105	QCS	
200.8_240209A4	0 URANIUM	0.0548	0.0519	mg/L	200.8	106	90-110	QCS	
	0 COPPER	0.0396	0.04	mg/L	200.8	99	90-110	QCS	
	0 MANGANESE	0.0396	0.04	mg/L	200.8	99	90-110	QCS	
	0 SILVER	0.0208	0.02	mg/L	200.8	104	90-110	QCS	
	0 ZINC	0.0394	0.04	mg/L	200.8	99	90-110	QCS	
	0 ANTIMONY	0.0375	0.04	mg/L	200.8	94	90-110	QCS	
	0 ARSENIC	0.0385	0.04	mg/L	200.8	96	90-110	QCS	
	0 BARIUM	0.0399	0.04	mg/L	200.8	100	90-110	QCS	
	0 BERYLLIUM	0.0401	0.04	mg/L	200.8	100	90-110	QCS	
	0 CADMIUM	0.0403	0.04	mg/L	200.8	101	90-110	QCS	
	0 CHROMIUM	0.0393	0.04	mg/L	200.8	98	90-110	QCS	
	0 LEAD	0.0415	0.04	mg/L	200.8	104	90-110	QCS	
	0 NICKEL	0.0394	0.04	mg/L	200.8	99	90-110	QCS	
	0 SELENIUM	0.0391	0.04	mg/L	200.8	98	90-110	QCS	
	0 THALLIUM	0.0409	0.04	mg/L	200.8	102	90-110	QCS	
245.1_240220	0 MERCURY	0.00252	0.00254	mg/L	245.1	99	90-110	QCS	
300.1_240207A	0 BROMATE	0.0099	0.01	mg/L	300.1	99	85-115	QCS	
	0 BROMIDE	0.101	0.1	mg/L	300.1	101	85-115	QCS	
504_240219	0 1,2 - DIBROMOETHANE (EDB)	1.13	1.04	ug/L	504.1	109	70-130	QCS	
	0 1,2,3 - TRICHLOROPROPANE	2.10	1.92	ug/L	504.1	109	70-130	QCS	
	0 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1.26	1.17	ug/L	504.1	108	70-130	QCS	
515_240220	0 2,4 - D	31.1	31	ug/L	515.4	100	70-130	QCS	DF=16
	0 2,4,5 - TP (SILVEX)	73.6	79.2	ug/L	515.4	93	70-130	QCS	DF=16
	0 DALAPON	29.4	30.3	ug/L	515.4	97	70-130	QCS	DF=16
	0 DICAMBA	79.1	88.4	ug/L	515.4	89	70-130	QCS	DF=16
	0 DINOSEB	13.3	12.9	ug/L	515.4	103	70-130	QCS	DF=16
	0 PENTACHLOROPHENOL	4.1	4.38	ug/L	515.4	94	70-130	QCS	DF=16
	0 PICLORAM	78.3	77.7	ug/L	515.4	101	70-130	QCS	DF=16
531_240220	1 3-HYDROXYCARBOFURAN	49.4	58.5	ug/L	531.2	84	70-130	QCS	
	1 ALDICARB	45.7	55.4	ug/L	531.2	82	70-130	QCS	
	1 ALDICARB SULFONE	64.8	69.4	ug/L	531.2	93	70-130	QCS	
	1 ALDICARB SULFOXIDE	63.0	65.7	ug/L	531.2	96	70-130	QCS	

*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: **24-01722**

Report Date: 03/12/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
Quality Control Sample									
531_240220	1 CARBARYL	47.8	62.1	ug/L	531.2	77	70-130	QCS	
	1 CARBOFURAN	53.4	63.3	ug/L	531.2	84	70-130	QCS	
	1 METHOMYL	26.5	30.3	ug/L	531.2	87	70-130	QCS	
	1 OXAMYL (VYDATE)	59.2	63.2	ug/L	531.2	94	70-130	QCS	
547_240229	1 GLYPHOSATE	19.3	20	ug/L	547	97	70-130	QCS	
ALK_240212	0 ALKALINITY	101	100	mg CaCO3/ISM2320 B		101	90-110	QCS	
Color_240207	0 COLOR	10	10	CU	SM2120 B	100	90-110	QCS	
EC_240212R	0 ELECTRICAL CONDUCTIVITY	143	146.9	uS/cm	SM2510 B	97	90-110	QCS	
IC05_240207A	0 CHLORIDE	6.4	6	mg/L	300.0	107	90-110	QCS	
	0 SULFATE	32.6	30	mg/L	300.0	109	90-110	QCS	
	0 FLUORIDE	4.02	4	mg/L	300.0	101	90-110	QCS	
	0 NITRATE-N	6.25	6	mg/L	300.0	104	90-110	QCS	
	0 NITRITE-N	6.16	6	mg/L	300.0	103	90-110	QCS	
	0 TOTAL NITRATE+NITRITE as N	12.41	12	mg/L	300.0	103	90-110	QCS	
TDS_240212	0 TOTAL DISSOLVED SOLIDS (TDS)	484	500	mg/L	SM2540 C	97	80-120	QCS	
	0 TOTAL DISSOLVED SOLIDS (TDS)	490	500	mg/L	SM2540 C	98	80-120	QCS	
Turb_240207	0 TURBIDITY	0.94	1.00	NTU	180.1	94	90-110	QCS	

*Notation:

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FORM: QCIndependent4.rpt



SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
150.1_240207									
E-10139	4	HYDROGEN ION (pH)	6.34	6.38	pH Units	0.6	0-50		
1677_240212									
57-12-5	4	CYANIDE	ND	ND	mg/L	NA	0-20		
57-12-5	6016	CYANIDE	ND	ND	mg/L	NA	0-20		
200.7_240213A5									
7440-42-8	5226	BORON	ND	ND	mg/L	NA	0-20		
7440-70-2	5226	CALCIUM	4.9	4.8	mg/L	2.1	0-20		
7439-89-6	5226	IRON	0.44	0.43	mg/L	2.3	0-20		
7439-95-4	5226	MAGNESIUM	1.7	1.7	mg/L	0.0	0-20		
7440-09-7	5226	POTASSIUM	0.6	0.6	mg/L	0.0	0-20		
7440-23-5	5226	SODIUM	3.2	3.3	mg/L	3.1	0-20		
E-11778	5786	HARDNESS	90.3	89.9	mg CaCO ₃ /L	0.4	0-20		
7439-89-6	5786	IRON	0.30	0.31	mg/L	3.3	0-20		
7440-23-5	5786	SODIUM	10.8	10.8	mg/L	0.0	0-20		
7439-89-6	5831	IRON	0.45	0.48	mg/L	6.5	0-20		
E-11778	5910	HARDNESS	19.5	19.9	mg/L	2.0	0-20		
7439-89-6	5910	IRON	0.076	0.074	mg/L	2.7	0-20		
7440-23-5	5910	SODIUM	2.1	2.1	mg/L	0.0	0-20		
7440-70-2	5910	CALCIUM	6.5	6.5	mg/L	0.0	0-20		
7429-90-5	6003	ALUMINUM	ND	ND	mg/L	NA	0-20		
7440-42-8	6003	BORON	ND	ND	mg/L	NA	0-20		
E-11778	6003	HARDNESS	27.9	27.7	mg/L	0.7	0-20		
7439-89-6	6003	IRON	ND	ND	mg/L	NA	0-20		
7440-70-2	6003	CALCIUM	9.7	9.6	mg/L	1.0	0-20		
7439-95-4	6003	MAGNESIUM	0.9	0.9	mg/L	0.0	0-20		
7440-09-7	6003	POTASSIUM	0.6	0.6	mg/L	0.0	0-20		
7440-23-5	6003	SODIUM	1.8	1.7	mg/L	5.7	0-20		
E-11778	6149	HARDNESS	609	609	mg/L	0.0	0-20		
7439-89-6	6149	IRON	1.58	1.53	mg/L	3.2	0-20		
E-11778	6304	HARDNESS	8.6	8.8	mg CaCO ₃ /L	2.3	0-20		
7429-90-5	6304	ALUMINUM	ND	ND	mg/L	NA	0-20		
7440-42-8	6304	BORON	ND	ND	mg/L	NA	0-20		
7440-70-2	6304	CALCIUM	2.6	2.7	mg/L	3.8	0-20		
7439-89-6	6304	IRON	ND	ND	mg/L	NA	0-20		
7439-95-4	6304	MAGNESIUM	0.5	0.5	mg/L	0.0	0-20		
7440-09-7	6304	POTASSIUM	ND	ND	mg/L	NA	0-20		
7440-23-5	6304	SODIUM	2.3	2.3	mg/L	0.0	0-20		
7439-89-6	6448	IRON	0.0008	0.0009	mg/L	11.8	0-20		
7440-42-8	6457	BORON	ND	ND	mg/L	NA	0-20		
7440-23-5	6713	SODIUM	70.1	70.2	mg/L	0.1	0-20		
7440-23-5	6721	SODIUM	8.2	8.2	mg/L	0.0	0-20		
E-11778	6728	HARDNESS	128	129	mg/L	0.8	0-20		
7439-89-6	6728	IRON	0.41	0.41	mg/L	0.0	0-20		
7440-23-5	6728	SODIUM	18.4	18.5	mg/L	0.5	0-20		
E-11778	7045	HARDNESS	119	120	mg/L	0.8	0-20		
7439-89-6	7045	IRON	ND	ND	mg/L	NA	0-20		
7440-23-5	7045	SODIUM	4.2	4.2	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

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FORM: QC Dependent_Port.rpt



SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
7439-89-6	7268	IRON	0.30	0.30	mg/L	0.0	0-20		
7439-89-6	7281	IRON	0.13	0.13	mg/L	0.0	0-20		
7439-89-6	7301	IRON	ND	ND	mg/L	NA	0-20		
7440-23-5	7301	SODIUM	9.2	9.1	mg/L	1.1	0-20		
200.8_240209A4									
7440-36-0	3354	ANTIMONY	ND	ND	mg/L	NA	0-20		
7440-38-2	3354	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-39-3	3354	BARIUM	0.0149	0.0153	mg/L	2.6	0-20		
7440-41-7	3354	BERYLLIUM	ND	ND	mg/L	NA	0-20		
7440-43-9	3354	CADMIUM	ND	ND	mg/L	NA	0-20		
7440-47-3	3354	CHROMIUM	ND	0.0010	mg/L	NA	0-20	IM	
7440-50-8	3354	COPPER	ND	ND	mg/L	NA	0-20		
7439-92-1	3354	LEAD	ND	ND	mg/L	NA	0-20		
7439-96-5	3354	MANGANESE	0.0010	0.0010	mg/L	0.0	0-20		
7440-02-0	3354	NICKEL	ND	ND	mg/L	NA	0-20		
7782-49-2	3354	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-22-4	3354	SILVER	ND	ND	mg/L	NA	0-20		
7440-28-0	3354	THALLIUM	ND	ND	mg/L	NA	0-20		
7440-61-1	3354	URANIUM	ND	ND	mg/L	NA	0-20		
7440-66-6	3354	ZINC	ND	ND	mg/L	NA	0-20		
7440-36-0	4399	ANTIMONY	ND	ND	mg/L	NA	0-20		
7440-38-2	4399	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-39-3	4399	BARIUM	ND	ND	mg/L	NA	0-20		
7440-47-3	4399	CHROMIUM	ND	ND	mg/L	NA	0-20		
7439-92-1	4399	LEAD	ND	ND	mg/L	NA	0-20		
7439-96-5	4399	MANGANESE	0.0206	0.0213	mg/L	3.3	0-20		
7782-49-2	4399	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-38-2	4840	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-39-3	4840	BARIUM	0.166	0.168	mg/L	1.2	0-20		
7440-43-9	4840	CADMIUM	ND	ND	mg/L	NA	0-20		
7440-47-3	4840	CHROMIUM	ND	ND	mg/L	NA	0-20		
7439-92-1	4840	LEAD	ND	ND	mg/L	NA	0-20		
7782-49-2	4840	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-22-4	4840	SILVER	ND	ND	mg/L	NA	0-20		
7439-92-1	5278	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5288	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5349	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5359	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5369	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5391	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5401	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5411	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5421	LEAD	ND	ND	ppb	NA	0-20		
7439-92-1	5431	LEAD	ND	ND	ppb	NA	0-20		
7440-38-2	6007	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-36-0	6455	ANTIMONY	ND	ND	mg/L	NA	0-20		
7440-38-2	6455	ARSENIC	ND	ND	mg/L	NA	0-20		
7440-39-3	6455	BARIUM	0.0058	0.0058	mg/L	0.0	0-20		

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FORM: QC Dependent_Port.rpt



SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
7440-41-7	6455	BERYLLIUM	ND	ND	mg/L	NA	0-20		
7440-43-9	6455	CADIUM	ND	ND	mg/L	NA	0-20		
7440-47-3	6455	CHROMIUM	ND	ND	mg/L	NA	0-20		
7440-50-8	6455	COPPER	ND	ND	mg/L	NA	0-20		
7439-92-1	6455	LEAD	ND	ND	mg/L	NA	0-20		
7439-96-5	6455	MANGANESE	ND	ND	mg/L	NA	0-20		
7440-02-0	6455	NICKEL	ND	ND	mg/L	NA	0-20		
7782-49-2	6455	SELENIUM	ND	ND	mg/L	NA	0-20		
7440-22-4	6455	SILVER	ND	ND	mg/L	NA	0-20		
7440-28-0	6455	THALLIUM	ND	ND	mg/L	NA	0-20		
7440-66-6	6455	ZINC	ND	ND	mg/L	NA	0-20		
300.1_240207A									
15541-45-4	4	BROMATE	ND	ND	mg/L	NA	0-20		
24959-67-9	4	BROMIDE	0.0939	0.0950	mg/L	1.2	0-20		
15541-45-4	5521	BROMATE	ND	ND	mg/L	NA	0-20		
515_240220									
94-75-7	3109	2,4 - D	62.1	59.0	ug/L	5.1	0-30		
93-72-1	3109	2,4,5 - TP (SILVEX)	26.7	25.9	ug/L	3.0	0-30		
75-99-0	3109	DALAPON	108.9	106.3	ug/L	2.4	0-30		
1918-00-9	3109	DICAMBA	110.3	106.9	ug/L	3.1	0-30		
88-85-7	3109	DINOSEB	65.8	65.5	ug/L	0.5	0-30		
87-86-5	3109	PENTACHLOROPHENOL	11.5	11.2	ug/L	2.6	0-30		
1918-02-1	3109	PICLORAM	54.5	51.8	ug/L	5.1	0-30		
524_240208									
75-35-4	1020	1,1 - DICHLOROETHYLENE	ND	N1	ND	N1	mg/L	NA	0-30
71-55-6	1020	1,1,1 - TRICHLOROETHANE	ND	ND	ND	ND	mg/L	NA	0-30
79-00-5	1020	1,1,2 - TRICHLOROETHANE	ND	ND	ND	ND	mg/L	NA	0-30
79-34-5	1020	1,1,2,2 - TETRACHLOROETHANE	ND	ND	ND	ND	mg/L	NA	0-30
107-06-2	1020	1,2 - DICHLOROETHANE	ND	N1	ND	N1	mg/L	NA	0-30
78-87-5	1020	1,2 - DICHLOROPROPANE	ND	ND	ND	ND	mg/L	NA	0-30
120-82-1	1020	1,2,4 - TRICHLOROBENZENE	ND	ND	ND	ND	mg/L	NA	0-30
71-43-2	1020	BENZENE	ND	ND	ND	ND	mg/L	NA	0-30
75-27-4	1020	BROMODICHLOROMETHANE	ND	ND	ND	ND	mg/L	NA	0-30
75-25-2	1020	BROMOFORM	ND	ND	ND	ND	mg/L	NA	0-30
56-23-5	1020	CARBON TETRACHLORIDE	ND	ND	ND	ND	mg/L	NA	0-30
124-48-1	1020	CHLORODIBROMOMETHANE	ND	ND	ND	ND	mg/L	NA	0-30
67-66-3	1020	CHLOROFORM	ND	ND	ND	ND	mg/L	NA	0-30
156-59-2	1020	CIS - 1,2 - DICHLOROETHYLENE	ND	ND	ND	ND	mg/L	NA	0-30
75-09-2	1020	DICHLOROMETHANE	ND	ND	ND	ND	mg/L	NA	0-30
100-41-4	1020	ETHYLBENZENE	ND	ND	ND	ND	mg/L	NA	0-30
179601-23-1	1020	M/P - XYLENE	ND	ND	ND	ND	mg/L	NA	0-30
1634-04-4	1020	METHYL TERT-BUTYL ETHER	ND	ND	ND	ND	mg/L	NA	0-30
108-90-7	1020	MONOCHLOROBENZENE	ND	ND	ND	ND	mg/L	NA	0-30
91-20-3	1020	NAPHTHALENE	ND	ND	ND	ND	mg/L	NA	0-30
95-50-1	1020	O - DICHLOROBENZENE	ND	ND	ND	ND	mg/L	NA	0-30
95-47-6	1020	O - XYLENE	ND	ND	ND	ND	mg/L	NA	0-30
106-46-7	1020	P - DICHLOROBENZENE	ND	ND	ND	ND	mg/L	NA	0-30
100-42-5	1020	STYRENE	ND	ND	ND	ND	mg/L	NA	0-30

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FORM: QC Dependent_Port.rpt



SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
127-18-4	1020	TETRACHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
108-88-3	1020	TOLUENE	ND	ND	mg/L	NA	0-30		
E-14471	1020	TOTAL TRIHALOMETHANE	ND	ND	mg/L	NA	0-30		
156-60-5	1020	TRANS - 1,2 - DICHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
79-01-6	1020	TRICHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
75-01-4	1020	VINYL CHLORIDE	ND	ND	mg/L	NA	0-30		
1330-20-7	1020	XYLENES (TOTAL)	ND	ND	mg/L	NA	0-30		
75-35-4	5234	1,1 - DICHLOROETHYLENE	ND	PH ND PH	mg/L	NA	0-30		
71-55-6	5234	1,1,1 - TRICHLOROETHANE	ND	ND	mg/L	NA	0-30		
79-00-5	5234	1,1,2 - TRICHLOROETHANE	ND	ND	mg/L	NA	0-30		
107-06-2	5234	1,2 - DICHLOROETHANE	ND	ND	mg/L	NA	0-30		
78-87-5	5234	1,2 - DICHLOROPROPANE	ND	ND	mg/L	NA	0-30		
120-82-1	5234	1,2,4 - TRICHLOROBENZENE	ND	ND	mg/L	NA	0-30		
71-43-2	5234	BENZENE	ND	ND	mg/L	NA	0-30		
56-23-5	5234	CARBON TETRACHLORIDE	ND	ND	mg/L	NA	0-30		
156-59-2	5234	CIS - 1,2 - DICHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
75-09-2	5234	DICHLOROMETHANE	ND	ND	mg/L	NA	0-30		
100-41-4	5234	ETHYLBENZENE	ND	ND	mg/L	NA	0-30		
108-90-7	5234	MONOCHLOROBENZENE	ND	ND	mg/L	NA	0-30		
95-50-1	5234	O - DICHLOROBENZENE	ND	ND	mg/L	NA	0-30		
106-46-7	5234	P - DICHLOROBENZENE	ND	ND	mg/L	NA	0-30		
100-42-5	5234	STYRENE	ND	ND	mg/L	NA	0-30		
127-18-4	5234	TETRACHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
108-88-3	5234	TOLUENE	ND	ND	mg/L	NA	0-30		
156-60-5	5234	TRANS - 1,2 - DICHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
79-01-6	5234	TRICHLOROETHYLENE	ND	ND	mg/L	NA	0-30		
75-01-4	5234	VINYL CHLORIDE	ND	ND	mg/L	NA	0-30		
1330-20-7	5234	XYLENES (TOTAL)	ND	ND	mg/L	NA	0-30		
525_240215									
15972-60-8	1141	ALACHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
309-00-2	1141	ALDRIN	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
1912-24-9	1141	ATRAZINE	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
50-32-8	1141	BENZO(A)PYRENE	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
23184-66-9	1141	BUTACHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
103-23-1	1141	DI(2-ETHYLHEXYL)-ADIPATE	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
117-81-7	1141	DI(2-ETHYLHEXYL)-PHthalate	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
60-57-1	1141	DIELDRIN	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
72-20-8	1141	ENDRIN	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
76-44-8	1141	HEPTACHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
1024-57-3	1141	HEPTACHLOR EPOXIDE "B"	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
118-74-1	1141	HEXACHLOROBENZENE	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
77-47-4	1141	HEXACHLOROCYCLO-PENTADIE NE	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
58-89-9	1141	LINDANE (BHC - GAMMA)	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
72-43-5	1141	METHOXYCHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
51218-45-2	1141	METOLACHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
21087-64-9	1141	METRIBUZIN	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024
1918-16-7	1141	PROPACHLOR	ND	ND	ug/L	NA	0-30		Extracted 2/26/2024

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SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
122-34-9	1141	SIMAZINE	0.16	0.21	H2				
ALK_240212									
E-14506	5299	ALKALINITY	224	223	mg CaCO3/L	0.4	0-20		
COLOR_240207									
E-11712	6304	COLOR	ND	ND	COLOR	NA	0-20		
EC_240212R									
E-10184	4	ELECTRICAL CONDUCTIVITY	385	385	uS/cm	0.0	0-20		
E-10184	5524	ELECTRICAL CONDUCTIVITY	360	362	uS/cm	0.6	0-20		
E-10184	6304	ELECTRICAL CONDUCTIVITY	29.5	29.4	uS/cm	0.3	0-20		
E-10184	7023	ELECTRICAL CONDUCTIVITY	302	304	uS/cm	0.7	0-20		
IC05_240207A									
16887-00-6	4	CHLORIDE	73.3	73.1	mg/L	0.3	0-20		
16984-48-8	4	FLUORIDE	ND	ND	mg/L	NA	0-20		
14797-55-8	4	NITRATE-N	1.35	1.31	mg/L	3.0	0-20		
14797-65-0	4	NITRITE-N	0.10	0.10	mg/L	0.0	0-20		
14808-79-8	4	SULFATE	18.1	18.0	mg/L	0.6	0-20		
E-10128	4	TOTAL NITRATE+NITRITE as N	1.45	1.41	mg/L	2.8	0-20		
16887-00-6	6025	CHLORIDE	2.1	2.1	mg/L	0.0	0-20		
16984-48-8	6025	FLUORIDE	0.22	0.22	mg/L	0.0	0-20		
14808-79-8	6025	SULFATE	3.0	3.0	mg/L	0.0	0-20		
16984-48-8	6329	FLUORIDE	0.10	0.10	mg/L	0.0	0-20		
14797-55-8	6329	NITRATE-N	0.70	0.70	mg/L	0.0	0-20		
odor_240207									
E-11734	4	ODOR	ND	ND	TON	NA	0-20		
TASTE_240216									
NA	2546	TASTE	ND	ND	FTN	NA	0-10		
NA	2668	TASTE	ND	ND	FTN	NA	0-10		
NA	5997	TASTE	ND	ND	FTN	NA	0-10		
TDS_240212									
E-10173	5980	TOTAL DISSOLVED SOLIDS (TDS)	155	153	mg/L	1.3	0-5		
E-10173	7041	TOTAL DISSOLVED SOLIDS (TDS)	319	317	mg/L	0.6	0-5		
TURB_240207									
E-10617	3354	TURBIDITY	1.1	1.1	NTU	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: **24-01722**

Report Date: 3/12/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery			%RPD	Limits*	QC		Comments
								MS	MSD	Limits*			Limits*	Qualifier	
1677_240212															
57-12-5	4	CYANIDE	ND	0.043	0.043	0.050	mg/L	86	86	70-130	0.0	0-20			
57-12-5	6016	CYANIDE	ND	0.051	0.052	0.050	mg/L	102	104	70-130	1.9	0-20			
200.7_240213A5															
7440-42-8	5226	BORON	ND	0.49	0.49	0.50	mg/L	98	98	70-130	0.0	0-20			
7440-70-2	5226	CALCIUM	4.9	17.6	17.6	13.0	mg/L	98	98	70-130	0.0	0-20			
7439-89-6	5226	IRON	0.44	0.94	0.95	0.50	mg/L	100	102	70-130	2.0	0-20			
7439-95-4	5226	MAGNESIUM	1.7	14.5	14.5	13.0	mg/L	98	98	70-130	0.0	0-20			
7440-09-7	5226	POTASSIUM	0.6	17.5	17.4	17.5	mg/L	97	96	70-130	0.6	0-20			
7440-23-5	5226	SODIUM	3.2	16.1	16.0	13.0	mg/L	99	98	70-130	0.8	0-20			
E-11778	5786	HARDNESS	90.3	171	171	86.0	mg CaCO3/L	94	94	70-130	0.0	0-20			
7439-89-6	5786	IRON	0.30	0.77	0.77	0.50	mg/L	94	94	70-130	0.0	0-20			
7440-23-5	5786	SODIUM	10.8	23.3	23.2	13.0	mg/L	96	95	70-130	0.8	0-20			
7439-89-6	5831	IRON	0.45	1.01	0.99	0.50	mg/L	112	108	70-130	3.6	0-20			
E-11778	5910	HARDNESS	19.5	103	103	86.0	mg/L	97	97	70-130	0.0	0-20			
7439-89-6	5910	IRON	0.076	0.54	0.54	0.50	mg/L	93	93	70-130	0.0	0-20			
7440-23-5	5910	SODIUM	2.1	14.9	14.9	13.0	mg/L	98	98	70-130	0.0	0-20			
7440-70-2	5910	CALCIUM	6.5	18.9	19.1	13.0	mg/L	95	97	70-130	1.6	0-20			
7429-90-5	6003	ALUMINUM	ND	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20			
7440-42-8	6003	BORON	ND	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20			
E-11778	6003	HARDNESS	27.9	111	112	86.0	mg/L	97	98	70-130	1.2	0-20			
7439-89-6	6003	IRON	ND	0.48	0.48	0.50	mg/L	96	96	70-130	0.0	0-20			
7440-70-2	6003	CALCIUM	9.7	22.0	22.2	13.0	mg/L	95	96	70-130	1.6	0-20			
7439-95-4	6003	MAGNESIUM	0.9	13.6	13.8	13.0	mg/L	98	99	70-130	1.6	0-20			
7440-09-7	6003	POTASSIUM	0.6	17.2	17.3	17.5	mg/L	95	95	70-130	0.6	0-20			
7440-23-5	6003	SODIUM	1.8	14.6	14.8	13.0	mg/L	98	100	70-130	1.6	0-20			
E-11778	6149	HARDNESS	609	664	669	86.0	mg/L	64	70	70-130	8.7	0-20	IS		
7439-89-6	6149	IRON	1.58	2.03	1.99	0.50	mg/L	90	82	70-130	9.3	0-20			
E-11778	6304	HARDNESS	8.6	94.4	94.1	86.0	mg CaCO3/L	100	99	70-130	0.4	0-20			
7429-90-5	6304	ALUMINUM	ND	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20			
7440-42-8	6304	BORON	ND	0.48	0.48	0.50	mg/L	96	96	70-130	0.0	0-20			
7440-70-2	6304	CALCIUM	2.6	15.7	15.6	13.0	mg/L	101	100	70-130	0.8	0-20			
7439-89-6	6304	IRON	ND	0.48	0.48	0.50	mg/L	96	96	70-130	0.0	0-20			
7439-95-4	6304	MAGNESIUM	0.5	13.4	13.4	13.0	mg/L	99	99	70-130	0.0	0-20			
7440-09-7	6304	POTASSIUM	ND	17.4	17.4	17.5	mg/L	99	99	70-130	0.0	0-20			
7440-23-5	6304	SODIUM	2.3	15.3	15.3	13.0	mg/L	100	100	70-130	0.0	0-20			
7439-89-6	6448	IRON	0.0008	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20			
7440-42-8	6457	BORON	ND	0.51	0.50	0.50	mg/L	102	100	70-130	2.0	0-20			
7440-23-5	6713	SODIUM	70.1	80.8	78.3	13.0	mg/L	82	63	70-130	26.5	0-20	IS		
7440-23-5	6721	SODIUM	8.2	21.0	21.1	13.0	mg/L	98	99	70-130	0.8	0-20			
E-11778	6728	HARDNESS	128	209	209	86.0	mg/L	94	94	70-130	0.0	0-20			
7439-89-6	6728	IRON	0.41	0.87	0.90	0.50	mg/L	92	98	70-130	6.3	0-20			
7440-23-5	6728	SODIUM	18.4	31.0	30.9	13.0	mg/L	97	96	70-130	0.8	0-20			
E-11778	7045	HARDNESS	119	196	204	86.0	mg/L	90	99	70-130	9.9	0-20			
7439-89-6	7045	IRON	ND	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20			
7440-23-5	7045	SODIUM	4.2	17.2	17.8	13.0	mg/L	100	105	70-130	4.5	0-20			
7439-89-6	7268	IRON	0.30	0.78	0.77	0.50	mg/L	96	94	70-130	2.1	0-20			

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SAMPLE DEPENDENT QUALITY CONTROL REPORT

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

Reference Number: **24-01722**

Report Date: 3/12/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery			%RPD	Limits*	QC	
								MS	MSD	Limits*			Qualifier	Comments
7439-89-6	7281	IRON	0.13	0.60	0.59	0.50	mg/L	94	92	70-130	2.2	0-20		
7439-89-6	7301	IRON	ND	0.48	0.49	0.50	mg/L	96	98	70-130	2.1	0-20		
7440-23-5	7301	SODIUM	9.2	21.9	22.0	13.0	mg/L	98	98	70-130	0.8	0-20		
200.8_240209A4														
7440-36-0	3354	ANTIMONY	ND	0.0107		0.0100	mg/L	107		70-130	NA	0-20		
7440-38-2	3354	ARSENIC	ND	0.0105		0.0100	mg/L	105		70-130	NA	0-20		
7440-39-3	3354	BARIUM	0.0149	0.0251		0.0100	mg/L	102		70-130	NA	0-20		
7440-41-7	3354	BERYLLIUM	ND	0.0100		0.0100	mg/L	100		70-130	NA	0-20		
7440-43-9	3354	CADMIUM	ND	0.0106		0.0100	mg/L	106		70-130	NA	0-20		
7440-47-3	3354	CHROMIUM	ND	0.0108		0.0100	mg/L	108		70-130	NA	0-20		
7440-50-8	3354	COPPER	ND	0.0099		0.0100	mg/L	99		70-130	NA	0-20		
7439-92-1	3354	LEAD	ND	0.0106		0.0100	mg/L	106		70-130	NA	0-20		
7439-96-5	3354	MANGANESE	0.0010	0.0108		0.0100	mg/L	98		70-130	NA	0-20		
7440-02-0	3354	NICKEL	ND	0.0100		0.0100	mg/L	100		70-130	NA	0-20		
7782-49-2	3354	SELENIUM	ND	0.0104		0.0100	mg/L	104		70-130	NA	0-20		
7440-22-4	3354	SILVER	ND	0.0106		0.0100	mg/L	106		70-130	NA	0-20		
7440-28-0	3354	THALLIUM	ND	0.0107		0.0100	mg/L	107		70-130	NA	0-20		
7440-61-1	3354	URANIUM	ND	0.0112		0.0100	mg/L	112		70-130	NA	0-20		
7440-66-6	3354	ZINC	ND	0.0103		0.0100	mg/L	103		70-130	NA	0-20		
7440-36-0	4399	ANTIMONY	ND	0.0106		0.010	mg/L	106		70-130	NA	0-20		
7440-38-2	4399	ARSENIC	ND	0.0105		0.010	mg/L	105		70-130	NA	0-20		
7440-39-3	4399	BARIUM	ND	0.0101		0.010	mg/L	101		70-130	NA	0-20		
7440-47-3	4399	CHROMIUM	ND	0.0094		0.010	mg/L	94		70-130	NA	0-20		
7439-92-1	4399	LEAD	ND	0.0106		0.010	mg/L	106		70-130	NA	0-20		
7439-96-5	4399	MANGANESE	0.0206	0.0300		0.010	mg/L	94		70-130	NA	0-20		
7782-49-2	4399	SELENIUM	ND	0.0102		0.010	mg/L	102		70-130	NA	0-20		
7440-38-2	4840	ARSENIC	ND	0.0110		0.010	mg/L	110		70-130	NA	0-20		
7440-39-3	4840	BARIUM	0.166	0.176		0.010	mg/L	100		70-130	NA	0-20		
7440-43-9	4840	CADMIUM	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20		
7440-47-3	4840	CHROMIUM	ND	0.0102		0.010	mg/L	102		70-130	NA	0-20		
7439-92-1	4840	LEAD	ND	0.0102		0.010	mg/L	102		70-130	NA	0-20		
7782-49-2	4840	SELENIUM	ND	0.0101		0.010	mg/L	101		70-130	NA	0-20		
7440-22-4	4840	SILVER	ND	0.0103		0.010	mg/L	103		70-130	NA	0-20		
7439-92-1	5278	LEAD	ND	11.3		10.0	ppb	113		70-130	NA	0-20		
7439-92-1	5288	LEAD	ND	10.8		10.0	ppb	108		70-130	NA	0-20		
7439-92-1	5349	LEAD	ND	10.8		10.0	ppb	108		70-130	NA	0-20		
7439-92-1	5359	LEAD	ND	10.4		10.0	ppb	104		70-130	NA	0-20		
7439-92-1	5369	LEAD	ND	10.4		10.0	ppb	104		70-130	NA	0-20		
7439-92-1	5391	LEAD	ND	10.8		10.0	ppb	108		70-130	NA	0-20		
7439-92-1	5401	LEAD	ND	10.8		10.0	ppb	108		70-130	NA	0-20		
7439-92-1	5411	LEAD	ND	10.8		10.0	ppb	108		70-130	NA	0-20		
7439-92-1	5421	LEAD	ND	11.1		10.0	ppb	111		70-130	NA	0-20		
7439-92-1	5431	LEAD	ND	11.1		10.0	ppb	111		70-130	NA	0-20		
7440-38-2	6007	ARSENIC	ND	0.0106		0.010	mg/L	106		70-130	NA	0-20		
7440-36-0	6455	ANTIMONY	ND	0.0105		0.010	mg/L	105		70-130	NA	0-20		
7440-38-2	6455	ARSENIC	ND	0.0105		0.010	mg/L	105		70-130	NA	0-20		
7440-39-3	6455	BARIUM	0.0058	0.0160		0.010	mg/L	102		70-130	NA	0-20		

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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: **24-01722**

Report Date: 3/12/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate	Conc	Units	Percent Recovery			%RPD	Limits*	QC		Comments
					Spike Result			MS	MSD	Limits*			Qualifier		
7440-41-7	6455	BERYLLIUM	ND	0.0101		0.010	mg/L	101		70-130	NA	0-20			
7440-43-9	6455	CADMIUM	ND	0.0105		0.010	mg/L	105		70-130	NA	0-20			
7440-47-3	6455	CHROMIUM	ND	0.0103		0.010	mg/L	103		70-130	NA	0-20			
7440-50-8	6455	COPPER	ND	0.0121		0.010	mg/L	121		70-130	NA	0-20			
7439-92-1	6455	LEAD	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20			
7439-96-5	6455	MANGANESE	ND	0.0099		0.010	mg/L	99		70-130	NA	0-20			
7440-02-0	6455	NICKEL	ND	0.0099		0.010	mg/L	99		70-130	NA	0-20			
7782-49-2	6455	SELENIUM	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20			
7440-22-4	6455	SILVER	ND	0.0107		0.010	mg/L	107		70-130	NA	0-20			
7440-28-0	6455	THALLIUM	ND	0.0104		0.010	mg/L	104		70-130	NA	0-20			
7440-66-6	6455	ZINC	ND	0.0105		0.010	mg/L	105		70-130	NA	0-20			
245.1_240220															
7439-97-6	4	MERCURY	ND	0.00170	0.00167	0.00167	mg/L	102	100	70-130	1.8	0-20			
7439-97-6	2983	MERCURY	ND	0.00170	0.00170	0.00167	mg/L	102	102	70-130	0.0	0-20			
7439-97-6	6667	MERCURY	ND	0.00164	0.00148	0.00167	mg/L	98	89	70-130	10.3	0-20			
300.1_240207A															
15541-45-4	4	BROMATE	ND	0.0099		0.010	mg/L	99		75-125	NA	0-20			
24959-67-9	4	BROMIDE	0.0939	0.102		0.010	mg/L	81		75-125	NA	0-20			
15541-45-4	5521	BROMATE	ND	0.0099		0.010	mg/L	99		75-125	NA	0-20			
504_240219															
106-93-4	5522	1,2 - DIBROMOETHANE (EDB)	ND	0.25		0.25	ug/L	100	NA	65-135	NA	0-20			
96-18-4	5522	1,2,3 - TRICHLOROPROPANE	ND	0.24		0.25	ug/L	96	NA	65-135	NA	0-20			
96-12-8	5522	1,2-DIBROMO-3-CHLOROPROPA NE (DBCP)	ND	0.25		0.25	ug/L	100	NA	65-135	NA	0-20			
515_240220															
94-75-7	5520	2,4 - D	ND	0.0027	0.0026	0.0025	mg/L	108	104	70-130	3.8	0-20			
93-72-1	5520	2,4,5 - TP (SILVEX)	ND	0.0025	0.0025	0.0025	mg/L	100	100	70-130	0.0	0-20			
75-99-0	5520	DALAPON	ND	0.0027	0.0026	0.0025	mg/L	108	104	70-130	3.8	0-20			
1918-00-9	5520	DICAMBA	ND	0.0025	0.0025	0.0025	mg/L	100	100	70-130	0.0	0-20			
88-85-7	5520	DINOSEB	ND	0.0024	0.0025	0.0025	mg/L	96	100	70-130	4.1	0-20			
87-86-5	5520	PENTACHLOROPHENOL	ND	0.0025	0.0025	0.0025	mg/L	100	100	70-130	0.0	0-20			
1918-02-1	5520	PICLORAM	ND	0.0027	0.0026	0.0025	mg/L	108	104	70-130	3.8	0-20			
525_240215															
15972-60-8	3354	ALACHLOR	ND	2.54		2	ug/L	127	NA	70-130	NA	0-20			
309-00-2	3354	ALDRIN	ND	0.96		1	ug/L	96	NA	70-130	NA	0-20			
1912-24-9	3354	ATRAZINE	ND	2.47		2	ug/L	124	NA	70-130	NA	0-20			
23184-66-9	3354	BUTACHLOR	ND	1.24		1	ug/L	124	NA	70-130	NA	0-20			
103-23-1	3354	DI(2-ETHYLHEXYL)-ADIPATE	ND	1.33		1	ug/L	133	NA	70-130	NA	0-20		M1	
117-81-7	3354	DI(2-ETHYLHEXYL)-PHTHALATE	ND	1.68		1	ug/L	168	NA	70-130	NA	0-20		M1	
60-57-1	3354	DIELDRIN	ND	1.14		1	ug/L	114	NA	70-130	NA	0-20			
1024-57-3	3354	HEPTACHLOR EPOXIDE "B"	ND	1.06		1	ug/L	106	NA	70-130	NA	0-20			
51218-45-2	3354	METOLACHLOR	ND	1.16		1	ug/L	116	NA	70-130	NA	0-20			
21087-64-9	3354	METRIBUZIN	ND	0.91		1	ug/L	91	NA	70-130	NA	0-20			
1918-16-7	3354	PROPACHLOR	ND	1.18		1	ug/L	118	NA	70-130	NA	0-20			
122-34-9	3354	SIMAZINE	ND	1.06		1	ug/L	106	NA	70-130	NA	0-20			
531_240220															

%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: **24-01722**

Report Date: 3/12/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery			%RPD	Limits*	QC	
								MS	MSD	Limits*			Qualifier	Comments
16655-82-6	2544	3-HYDROXYCARBOFURAN	ND	16.2	16.4	20	ug/L	81	82	70-130	1.2	0-20		
116-06-3	2544	ALDICARB	ND	15.0	15.0	20	ug/L	75	75	70-130	0.0	0-20		
1646-88-4	2544	ALDICARB SULFONE	ND	17.8	18.1	20	ug/L	89	91	70-130	1.7	0-20		
1646-87-3	2544	ALDICARB SULFOXIDE	ND	18.2	18.5	20	ug/L	91	93	70-130	1.6	0-20		
63-25-2	2544	CARBARYL	ND	14.1	14.4	20	ug/L	71	72	70-130	2.1	0-20		
1563-66-2	2544	CARBOFURAN	ND	15.4	15.7	20	ug/L	77	79	70-130	1.9	0-20		
16752-77-5	2544	METHOMYL	ND	16.7	16.8	20	ug/L	84	84	70-130	0.6	0-20		
23135-22-0	2544	OXAMYL (VYDATE)	ND	17.6	17.9	20	ug/L	88	90	70-130	1.7	0-20		
547_240229														
1071-83-6	5523	GLYPHOSATE	ND	17.6		20	ug/L	88	NA	81-126	NA	0-20		
1071-83-6	9617	GLYPHOSATE	ND	38.5		40	ug/L	96	NA	81-126	NA	0-20		
548_240209														
145-73-3	5522	ENDOTHALL	ND	ND		5	ug/L		NA	50-150	NA	0-20	P	
145-73-3	5523	ENDOTHALL	ND	3.5		5	ug/L	70	NA	50-150	NA	0-20		
549_240212														
85-00-7	1141	DIQUAT	ND	16.1		20	ug/L	81	NA	70-130	NA	0-20		
85-00-7	5793	DIQUAT	ND	0.0187		0.020	mg/L	94	NA	70-130	NA	0-20		
IC05_240207A														
16887-00-6	4	CHLORIDE	73.3	72.6		1	mg/L	-70		90-110	NA	0-20	IS	
16984-48-8	4	FLUORIDE	ND	0.98		1	mg/L	98		90-110	NA	0-20		
14797-55-8	4	NITRATE-N	1.35	2.41		1	mg/L	106		90-110	NA	0-20		
14797-65-0	4	NITRITE-N	0.10	0.99		1	mg/L	89		90-110	NA	0-20	IM	
14808-79-8	4	SULFATE	18.1	20.1		2	mg/L	100		90-110	NA	0-20		
E-10128	4	TOTAL NITRATE+NITRITE as N	1.45	3.40		2	mg/L	98		90-110	NA	0-20		
16887-00-6	6025	CHLORIDE	2.1	3.2		1	mg/L	110		90-110	NA	0-20		
16984-48-8	6025	FLUORIDE	0.22	1.15		1	mg/L	93		90-110	NA	0-20		
14808-79-8	6025	SULFATE	3.0	5.1		2	mg/L	105		90-110	NA	0-20		
16984-48-8	6329	FLUORIDE	0.10	1.00		1	mg/L	90		90-110	NA	0-20		
14797-55-8	6329	NITRATE-N	0.70	1.77		1	mg/L	107		90-110	NA	0-20		

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FORM: QC Dependent_Port.rpt

Qualifier Definitions

Reference Number: 24-01722

Report Date: 03/12/24

Qualifier	Definition
H1	Sample analysis performed past holding time.
H2	Initial analysis within holding time. Reanalysis for the duplicate was past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
HR	High QCS recovery due to increased detector response No sample detections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
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.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Matrix bias indicated.
N1	See case narrative.
P	The Laboratory Fortified Blank was within limits. Little or No recovery of the MS/MSD indicates matrix effects. Detection at the reported amount may not have been achieved.
PH	Data Suspect: The sample was not preserved at pH <2

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

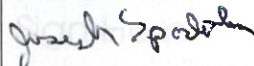
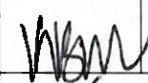
CHAIN OF CUSTODY RECORD 24-01722

761-019-30

INVOICE TO/SEND ORIGINAL REPORT TO: Compliance Designs		CLIENT NAME TO APPEAR ON REPORT: Shawangunk Bulk Spring Water 1084 Indian Springs Road Pine Bush NY 12566		LAB USED: Edge Analytical	ORDER # 59479
Tel (603) 273-0954 Fax (603) 695-7318				TURNAROUND TIME: STND/BUT ASAP	PWS # : 9996597
PROJECT NAME: 2024 Annual		PROJECT #: 761		ANALYSIS REQUIRED	
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS		
761-019		Shawangunk Spring Source		50 State Battery (NO DBPs) With TCP (504), & PFAS, TC, HPC	
Sample & Ship SAME DAY					
				Receiving: Log in for BW 50 State with TCP (504) and PFAS, add Total Coliform and HPC, No HAAs, yes THMs and Bromide.	
		trip blanks	2	Send both bacteria to Bellingham	
SAMPLER'S SIGNATURE: SIGN HERE		PLEASE PRINT BELOW: PRINT NAME HERE		COMPLIANCE CRITERIA: 50 State Compliance	
RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY	
Sign Here	Date & Time				

CHAIN OF CUSTODY RECORD 24-01722

761-019-30

INVOICE TO/SEND Compliance Designs		ORIGINAL REPORT TO: 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318		CLIENT NAME TO APPEAR ON REPORT: Shawangunk Bulk Spring Water 1084 Indian Springs Road Pine Bush NY 12566		LAB USED: Edge Analytical		ORDER # 59479	
PROJECT NAME: 2024 Annual				PROJECT #: 761		NUMBER OF CONTAINERS		ANALYSIS REQUIRED	
SAMPLE NUMBER		DATE & TIME OF SAMPLE COLLECTION		SAMPLE DESCRIPTION AND PRODUCTION CODE					
761-019				Shawangunk Spring Source				50 State Battery (NO DBPs) With TCP (504), & PFAS, TC, HPC	
Sample & Ship SAME DAY									
								Receiving: Log in for BW 50 State with TCP (504) and PFAS, add Total Coliform and HPC, No HAAs, yes THMs and Bromide.	
				trip blanks		2		Send both bacteria to Bellingham	
SAMPLER'S SIGNATURE: 				PLEASE PRINT BELOW: JOSEPH SPADOLA				COMPLIANCE CRITERIA: 50 State Compliance	
RELINQUISHED BY 		DATE/TIME 02-06-24 1:45 PM		ACCEPTED BY		DATE/TIME		NOTES TO LABORATORY	
				UPS REC8 2/7/24 0927		 26			

24-01722
3354

JOE SPADOLA - SHAWANGUNK BUL 84 LBS
(603) 273-0954
COMPLIANCE DESIGNS INC
1084 INDIAN SPRINGS RD
PINE BUSH NY 12566-5509

1 OF 1

RS

DWT: 39,18,18
AH

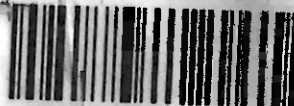
SHIP TO:

EDGE ANALYTICAL
(360) 757-1400
EDGE ANALYTICAL
1620 S WALNUT ST

BURLINGTON WA 98233-3231



WA 982 1-01



UPS NEXT DAY AIR

TRACKING #: 1Z V93 0F6 84 6979 5025

1



BILLING: P/P
DESC: Potable Water Test Kit
RETURN SERVICE

\$561

Packing Number: 59479
REF 2: C0059479

WS 20.0.14 Zebra ZP 480 04.0A 01/2024

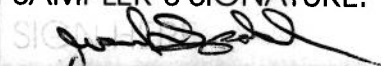
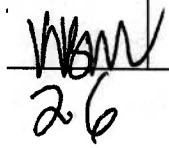


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CHAIN OF CUSTODY RECORD 24-01722

761-019-30

INVOICE TO/SEND ORIGINAL REPORT TO: Compliance Designs 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318		CLIENT NAME TO APPEAR ON REPORT: Shawangunk Bulk Spring Water 1084 Indian Springs Road Pine Bush NY 12566		LAB USED: Edge Analytical	ORDER # 59479
PROJECT NAME: 2024 Annual		PROJECT #: 761		TURNAROUND TIME: STND/BUT ASAP	PWS #: 9996597
				ANALYSIS REQUIRED	
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS		
761-019		Shawangunk Spring Source		50 State Battery (NO DBPs) With TCP (504), & PFAS, TC, HPC	
Sample & Ship SAME DAY					
				Receiving: Log in for BW 50 State with TCP (504) and PFAS, add Total Coliform and HPC, No HAAs, yes THMs and Bromide.	
		trip blanks	2	Send both bacteria to Bellingham	
SAMPLER'S SIGNATURE: 		PLEASE PRINT BELOW: JOSEPH SPADOLA		COMPLIANCE CRITERIA: 50 State Compliance	
RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY	
Joseph Spadola	02-06-24 1:45 PM	JLW 4.8°C	2/7/24 11:57		
		UPS REC8 2/7/24 0927 			



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

EMSL Order ID: 042402588
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: 02/08/2024
Analyzed: 02/21/2024

Proj: 24-01722

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

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
					MFL (million fibers per liter)				
24-3354 042402588-0001	2/20/2024 09:25 AM	100	1339	0.0768	None Detected	ND	0.17	<0.17	0.00 - 0.64

Collection Date/Time: 02/06/2024 10:45 AM

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

Bottle supplied by client.

Analyst(s)

Gregory Barry (1)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 02/21/2024 11:56:36

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 larger 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: Kylee Siilanta
Edge Analytical, Inc
1620 S Walnut Street
Burlington, Washington 98233-3231

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JOB DESCRIPTION

24-01722

JOB NUMBER

380-81815-1

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



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

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2/26/2024 6:58:37 PM

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Definitions/Glossary

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

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
F1	MS and/or MSD recovery exceeds control limits.
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: 24-01722

Job ID: 380-81815-1

Job ID: 380-81815-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-81815-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/7/2024 10:00 AM. 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 3.1°C.

Receipt Exceptions

The following sample was received at the laboratory without a sample collection time documented on the chain of custody: 23_3554 (380-81815-1). The client was contacted, and the laboratory was instructed to use a sample collection time of 0800.

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.

Eurofins Eaton Analytical Pomona

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Job ID: 380-81815-1

Lab Sample ID: 380-81815-1

No Detections.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

Client Sample ID: 23_3554
Date Collected: 02/06/24 08:00
Date Received: 02/07/24 10:00

Lab Sample ID: 380-81815-1
Matrix: Drinking Water

Method: EPA 331.0 - Perchlorate (LC/MS/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Perchlorate	ND		0.050	ug/L			02/20/24 13:47	1	

General Chemistry									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Phenols, Total (EPA 420.4)	ND		1.0	ug/L			02/12/24 17:43	1	
Methylene Blue Active Substances (SM 5540C)	ND		0.10	mg/L			02/07/24 13:20	1	

QC Sample Results

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

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

Lab Sample ID: MBL 380-77490/8

Matrix: Water

Analysis Batch: 77490

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.050	ug/L			02/20/24 12:22	1

Lab Sample ID: LCS 380-77490/9

Matrix: Water

Analysis Batch: 77490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	3.95	3.90		ug/L		99	80 - 120

Lab Sample ID: LCSD 380-77490/10

Matrix: Water

Analysis Batch: 77490

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
Perchlorate	3.95	4.06		ug/L		103	80 - 120	4	20

Lab Sample ID: MRL 380-77490/1006

Matrix: Water

Analysis Batch: 77490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.0494	0.0319	J	ug/L		65	50 - 150

Lab Sample ID: 380-83529-G-1 MS LMS

Matrix: Water

Analysis Batch: 77490

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	ND		4.00	4.41		ug/L		110	50 - 150

Lab Sample ID: 380-83529-G-1 MSD LMSD

Matrix: Water

Analysis Batch: 77490

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	LMSD Result	LMSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	ND		4.00	4.50		ug/L		112	50 - 150	2	50

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 380-76309/14

Matrix: Water

Analysis Batch: 76309

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			02/12/24 14:52	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: MB 380-76309/46

Matrix: Water

Analysis Batch: 76309

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			02/12/24 16:28	1

Lab Sample ID: LCS 380-76309/16

Matrix: Water

Analysis Batch: 76309

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	5.40		ug/L		108	90 - 110

Lab Sample ID: LCSD 380-76309/17

Matrix: Water

Analysis Batch: 76309

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	5.18		ug/L		104	90 - 110	4	20

Lab Sample ID: MRL 380-76309/15

Matrix: Water

Analysis Batch: 76309

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	0.950	J	ug/L		95	50 - 150

Lab Sample ID: MRL 380-76309/47

Matrix: Water

Analysis Batch: 76309

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	0.995	J	ug/L		99	50 - 150

Lab Sample ID: 380-82165-A-2 MS

Matrix: Water

Analysis Batch: 76309

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	F1	5.00	5.05		ug/L		86	80 - 120

Lab Sample ID: 380-82165-A-2 MSD

Matrix: Water

Analysis Batch: 76309

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	F1	5.00	4.74	F1	ug/L		79	80 - 120	6	20

QC Sample Results

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

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

Lab Sample ID: MB 380-75322/2

Matrix: Water

Analysis Batch: 75322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	ND		0.10	mg/L			02/07/24 13:20	1

Lab Sample ID: LCS 380-75322/1

Matrix: Water

Analysis Batch: 75322

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	0.183		mg/L		92	90 - 110

Lab Sample ID: LCSD 380-75322/16

Matrix: Water

Analysis Batch: 75322

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	0.195		mg/L		97	90 - 110	6	20

Lab Sample ID: MRL 380-75322/3

Matrix: Water

Analysis Batch: 75322

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	0.0766	J	mg/L		77	75 - 125

Lab Sample ID: 380-81815-1 MS

Matrix: Drinking Water

Analysis Batch: 75322

Client Sample ID: 23_3554

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	0.169		mg/L		84	80 - 120

Lab Sample ID: 380-81815-1 MSD

Matrix: Drinking Water

Analysis Batch: 75322

Client Sample ID: 23_3554

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	0.174		mg/L		87	80 - 120	3	20

QC Association Summary

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

LCMS

Analysis Batch: 77490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-81815-1	23_3554	Total/NA	Drinking Water	331.0	
MBL 380-77490/8	Method Blank	Total/NA	Water	331.0	
LCS 380-77490/9	Lab Control Sample	Total/NA	Water	331.0	
LCSD 380-77490/10	Lab Control Sample Dup	Total/NA	Water	331.0	
MRL 380-77490/1006	Lab Control Sample	Total/NA	Water	331.0	
380-83529-G-1 MS LMS	Matrix Spike	Total/NA	Water	331.0	
380-83529-G-1 MSD LMSD	Matrix Spike Duplicate	Total/NA	Water	331.0	

General Chemistry

Analysis Batch: 75322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-81815-1	23_3554	Total/NA	Drinking Water	SM 5540C	
MB 380-75322/2	Method Blank	Total/NA	Water	SM 5540C	
LCS 380-75322/1	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 380-75322/16	Lab Control Sample Dup	Total/NA	Water	SM 5540C	
MRL 380-75322/3	Lab Control Sample	Total/NA	Water	SM 5540C	
380-81815-1 MS	23_3554	Total/NA	Drinking Water	SM 5540C	
380-81815-1 MSD	23_3554	Total/NA	Drinking Water	SM 5540C	

Analysis Batch: 76309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-81815-1	23_3554	Total/NA	Drinking Water	420.4	
MB 380-76309/14	Method Blank	Total/NA	Water	420.4	
MB 380-76309/46	Method Blank	Total/NA	Water	420.4	
LCS 380-76309/16	Lab Control Sample	Total/NA	Water	420.4	
LCSD 380-76309/17	Lab Control Sample Dup	Total/NA	Water	420.4	
MRL 380-76309/15	Lab Control Sample	Total/NA	Water	420.4	
MRL 380-76309/47	Lab Control Sample	Total/NA	Water	420.4	
380-82165-A-2 MS	Matrix Spike	Total/NA	Water	420.4	
380-82165-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	420.4	

Lab Chronicle

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

Client Sample ID: 23_3554
Date Collected: 02/06/24 08:00
Date Received: 02/07/24 10:00

Lab Sample ID: 380-81815-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	331.0		1	77490	UKDT	EA POM	02/20/24 13:47
Total/NA	Analysis	420.4		1	76309	LQ3M	EA POM	02/12/24 17:43
Total/NA	Analysis	SM 5540C		1	75322	MH2L	EA POM	02/07/24 13:20

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: 24-01722

Job ID: 380-81815-1

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	02-27-24
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.			
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	03-31-24
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.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
Massachusetts	State	M-CA006	06-30-24
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.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
SM 5540C		Drinking Water	Methylene Blue Active Substances
New Hampshire	NELAP	2959	03-29-24
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.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
New Jersey	NELAP	CA008	06-30-24
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.			
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	04-01-24
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.			
Analysis Method	Prep Method	Matrix	Analyte
420.4		Drinking Water	Phenols, Total
Pennsylvania	NELAP	68-00565	10-31-24

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

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.			
<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.			
<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.			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
420.4		Drinking Water	Phenols, Total

Method Summary

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

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

Sample Summary

Client: Edge Analytical, Inc
Project/Site: 24-01722

Job ID: 380-81815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-81815-1	23_3554	Drinking Water	02/06/24 08:00	02/07/24 10:00

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Burlington, WA	Corporate Laboratory (a)	1820 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/Chem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology/Chem (d)	540 SW Third Street	Corvallis OR 97333	541.753.4946
Bend, OR	Microbiology/Chem (e)	20332 Empire Ave Ste F4	Bend OR 97703	541.639.8425

Page 1 of 1

Subcontract Work Order

Laboratory Name: EUROFINs Eaton Analytical - Pamona
941 Corporate Center Dr
Pamona, CA 91768-2642
Project: 761-019 - 50 State Source

Date: 1/23/2024
Reference Number: 24-01722
Date Due: 2/20/2024

Sample ID: 24_3354	Sample Origin: NY	Matrix: Source Water for	Date Sampled: 02-06-2024
Analyte Name	Units	PQL	

<u>Analytical Method:</u> 331.0	<u>Prep Method:</u>	
PERCHLORATE	ug/L	0.05
<u>Analytical Method:</u> 420.4	<u>Prep Method:</u>	
PHENOLICS	mg/L	0.0005
<u>Analytical Method:</u> SM5540 C	<u>Prep Method:</u>	
MBAS (Surfactants)	mg/L	0.05



380-81815 COC

Please send results to: subcontract@edgeanalytical.com

Joseph Spadale
Relinquished By
02-06-24 1:30 PM eastern
Date Time

VP: 12024 04 4E201 1357 1657
(7524) 33 02-31 ice-frozen
Mark Vrcutich
Received By
2/7/24 1000 KEAP
Date Time

Login Sample Receipt Checklist

Client: Edge Analytical, Inc

Job Number: 380-81815-1

Login Number: 81815

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Do, Michelle

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and 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.	False	No time on COC or sample containers
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



February 12, 2024

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

RE: Project: 24-01722
Pace Project No.: 35859108

Dear Laurence Henderson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 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,

A handwritten signature in black ink that reads "Martha Montero".

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: 24-01722

Pace Project No.: 35859108

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

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: 24-01722

Pace Project No.: 35859108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35859108001	24-3354	Drinking Water	02/06/24 10:45	02/08/24 10:30
35859108002	24-3354 FB	Drinking Water	02/06/24 10:45	02/08/24 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 24-01722
Pace Project No.: 35859108

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35859108001	24-3354	EPA 537.1	HL	22	PASI-O
35859108002	24-3354 FB	EPA 537.1	TMM1	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 24-01722
Pace Project No.: 35859108

Sample: 24-3354 Lab ID: 35859108001 Collected: 02/06/24 10:45 Received: 02/08/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water									
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	02/08/24 23:25	02/09/24 19:15	763051-92-9	
9CI-PF3ONS	1.0 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	756426-58-1	
ADONA	0.67 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	919005-14-4	
HFPO-DA	1.5 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	13252-13-6	
NEtFOSAA	0.86 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	2991-50-6	
NMeFOSAA	1.4 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	2355-31-9	
Perfluorobutanesulfonic acid	0.61 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	375-73-5	
Perfluorodecanoic acid	0.89 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	335-76-2	
Perfluorohexanoic acid	1.2 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	307-24-4	
Perfluorododecanoic acid	1.3 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	307-55-1	
Perfluoroheptanoic acid	0.93 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	375-85-9	
Perfluorohexanesulfonic acid	0.68 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	355-46-4	
Perfluorononanoic acid	1.8 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	375-95-1	
Perfluorooctanesulfonic acid	1.1 U	ng/L	1.8	10	1	02/08/24 23:25	02/09/24 19:15	1763-23-1	
Perfluorooctanoic acid	0.81 U	ng/L	1.8	10	1	02/08/24 23:25	02/09/24 19:15	335-67-1	
Perfluorotetradecanoic acid	1.7 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	376-06-7	
Perfluorotridecanoic acid	1.6 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	72629-94-8	
Perfluoroundecanoic acid	1.8 U	ng/L	1.8		1	02/08/24 23:25	02/09/24 19:15	2058-94-8	
Surrogates									
13C2-PFDA (S)	124	%	70-130		1	02/08/24 23:25	02/09/24 19:15		
13C2-PFHxA (S)	126	%	70-130		1	02/08/24 23:25	02/09/24 19:15		
NEtFOSAA-d5 (S)	121	%	70-130		1	02/08/24 23:25	02/09/24 19:15		
HFPO-DAS (S)	119	%	70-130		1	02/08/24 23:25	02/09/24 19:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 24-01722
Pace Project No.: 35859108

Sample: 24-3354 FB Lab ID: 35859108002 Collected: 02/06/24 10:45 Received: 02/08/24 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUdS	1.4 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	763051-92-9	
9CI-PF3ONS	1.0 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	756426-58-1	
ADONA	0.65 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	919005-14-4	
HFPO-DA	1.5 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	13252-13-6	
NEtFOSAA	0.84 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	2991-50-6	
NMeFOSAA	1.4 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	2355-31-9	
Perfluorobutanesulfonic acid	0.61 I	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	375-73-5	
Perfluorodecanoic acid	0.87 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	335-76-2	
Perfluorohexanoic acid	1.1 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	307-24-4	
Perfluorododecanoic acid	1.3 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	307-55-1	
Perfluoroheptanoic acid	0.91 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	375-85-9	
Perfluorohexanesulfonic acid	0.66 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	355-46-4	
Perfluorononanoic acid	1.8 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	375-95-1	
Perfluorooctanesulfonic acid	1.1 U	ng/L	1.8	10	1	02/08/24 23:25	02/10/24 16:26	1763-23-1	
Perfluorooctanoic acid	0.79 U	ng/L	1.8	10	1	02/08/24 23:25	02/10/24 16:26	335-67-1	
Perfluorotetradecanoic acid	1.7 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	376-06-7	
Perfluorotridecanoic acid	1.6 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	72629-94-8	
Perfluoroundecanoic acid	1.8 U	ng/L	1.8		1	02/08/24 23:25	02/10/24 16:26	2058-94-8	
Surrogates									
13C2-PFDA (S)	124	%	70-130		1	02/08/24 23:25	02/10/24 16:26		
13C2-PFHxA (S)	120	%	70-130		1	02/08/24 23:25	02/10/24 16:26		
NEtFOSAA-d5 (S)	130	%	70-130		1	02/08/24 23:25	02/10/24 16:26		
HFPO-DAS (S)	118	%	70-130		1	02/08/24 23:25	02/10/24 16:26		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 24-01722

Pace Project No.: 35859108

QC Batch: 987676

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: 35859108001, 35859108002

METHOD BLANK: 5431481

Matrix: Water

Associated Lab Samples: 35859108001, 35859108002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	1.6 U	2.0	02/09/24 16:04	
9CI-PF3ONS	ng/L	1.2 U	2.0	02/09/24 16:04	
ADONA	ng/L	0.74 U	2.0	02/09/24 16:04	
HFPO-DA	ng/L	1.7 U	2.0	02/09/24 16:04	
NEtFOSAA	ng/L	0.95 U	2.0	02/09/24 16:04	
NMeFOSAA	ng/L	1.6 U	2.0	02/09/24 16:04	
Perfluorobutanesulfonic acid	ng/L	0.68 U	2.0	02/09/24 16:04	
Perfluorodecanoic acid	ng/L	0.99 U	2.0	02/09/24 16:04	
Perfluorododecanoic acid	ng/L	1.5 U	2.0	02/09/24 16:04	
Perfluoroheptanoic acid	ng/L	1.0 U	2.0	02/09/24 16:04	
Perfluorohexanesulfonic acid	ng/L	0.75 U	2.0	02/09/24 16:04	
Perfluorohexanoic acid	ng/L	1.3 U	2.0	02/09/24 16:04	
Perfluorononanoic acid	ng/L	2.0 U	2.0	02/09/24 16:04	
Perfluorooctanesulfonic acid	ng/L	1.2 U	2.0	02/09/24 16:04	
Perfluorooctanoic acid	ng/L	0.89 U	2.0	02/09/24 16:04	
Perfluorotetradecanoic acid	ng/L	1.9 U	2.0	02/09/24 16:04	
Perfluorotridecanoic acid	ng/L	1.8 U	2.0	02/09/24 16:04	
Perfluoroundecanoic acid	ng/L	2.0 U	2.0	02/09/24 16:04	
13C2-PFDA (S)	%	117	70-130	02/09/24 16:04	
13C2-PFHxA (S)	%	111	70-130	02/09/24 16:04	
HFPO-DAS (S)	%	109	70-130	02/09/24 16:04	
NEtFOSAA-d5 (S)	%	107	70-130	02/09/24 16:04	

LABORATORY CONTROL SAMPLE: 5431482

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	7.0	93	70-130	
ADONA	ng/L	7.6	7.5	99	70-130	
HFPO-DA	ng/L	8	8.0	99	70-130	
NEtFOSAA	ng/L	8	7.7	96	70-130	
NMeFOSAA	ng/L	8	7.8	97	70-130	
Perfluorobutanesulfonic acid	ng/L	7.1	7.6	108	70-130	
Perfluorodecanoic acid	ng/L	8	7.9	98	70-130	
Perfluorododecanoic acid	ng/L	8	7.6	96	70-130	
Perfluoroheptanoic acid	ng/L	8	8.2	102	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.4	101	70-130	
Perfluorohexanoic acid	ng/L	8	7.7	96	70-130	
Perfluorononanoic acid	ng/L	8	8.4	105	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: 24-01722

Pace Project No.: 35859108

LABORATORY CONTROL SAMPLE: 5431482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ng/L	7.4	7.4	100	70-130	
Perfluorooctanoic acid	ng/L	8	8.0	100	70-130	
Perfluorotetradecanoic acid	ng/L	8	7.7	96	70-130	
Perfluorotridecanoic acid	ng/L	8	7.5	94	70-130	
Perfluoroundecanoic acid	ng/L	8	8.1	101	70-130	
13C2-PFDA (S)	%			113	70-130	
13C2-PFHxA (S)	%			111	70-130	
HFPO-DAS (S)	%			109	70-130	
NEtFOSAA-d5 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5431484 5431485

Parameter	Units	35859099001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
11CI-PF3OUdS	ng/L	ND	134	135	188	210	140	156	70-130	11	30 J(M1)
9CI-PF3ONS	ng/L	ND	133	133	191	206	144	154	70-130	8	30 J(M1)
ADONA	ng/L	ND	134	135	190	204	142	151	70-130	7	30 J(M1)
HFPO-DA	ng/L	ND	142	143	206	216	145	151	70-130	5	30 J(M1)
NEtFOSAA	ng/L	ND	142	143	198	222	140	155	70-130	11	30 J(M1)
NMeFOSAA	ng/L	ND	142	143	197	219	139	153	70-130	10	30 J(M1)
Perfluorobutanesulfonic acid	ng/L	2.0	126	126	198	219	156	172	70-130	10	30 J(M1)
Perfluorodecanoic acid	ng/L	ND	142	143	213	232	150	163	70-130	9	30 J(M1)
Perfluorododecanoic acid	ng/L	ND	142	143	186	211	131	148	70-130	13	30 J(M1)
Perfluoroheptanoic acid	ng/L	ND	142	143	215	235	151	165	70-130	9	30 J(M1)
Perfluorohexanesulfonic acid	ng/L	1.9	129	130	199	217	152	165	70-130	8	30 J(M1)
Perfluorohexanoic acid	ng/L	ND	142	143	209	224	147	157	70-130	7	30 J(M1)
Perfluorononanoic acid	ng/L	ND	142	143	219	237	155	166	70-130	8	30 J(M1)
Perfluorooctanesulfonic acid	ng/L	ND	131	132	195	220	149	167	70-130	12	30 J(M1)
Perfluorooctanoic acid	ng/L	ND	142	143	216	233	152	163	70-130	7	30 J(M1)
Perfluorotetradecanoic acid	ng/L	ND	142	143	154	198	109	139	70-130	25	30 J(M1)
Perfluorotridecanoic acid	ng/L	ND	142	143	166	202	117	142	70-130	19	30 J(M1)
Perfluoroundecanoic acid	ng/L	ND	142	143	200	221	141	155	70-130	10	30 J(M1)
13C2-PFDA (S)	%						129	130	70-130		
13C2-PFHxA (S)	%						128	129	70-130		
HFPO-DAS (S)	%						128	124	70-130		
NEtFOSAA-d5 (S)	%						115	116	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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QUALIFIERS

Project: 24-01722

Pace Project No.: 35859108

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.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 24-01722
Pace Project No.: 35859108

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35859108001	24-3354	EPA 537.1	987676	EPA 537.1	987763
35859108002	24-3354 FB	EPA 537.1	987676	EPA 537.1	987763

REPORT OF LABORATORY ANALYSIS



Burlington, WA	Corporate Laboratory (a)	1820 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	MicrobiologyChem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	MicrobiologyChem (d)	640 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (e)	2032 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

Page 1 of 1

Subcontract Work Order

Laboratory Name: Pace Analytical - Ormond Beach FL
8 East Tower Circle
Ormond Beach, FL 32174
Project: 761-019 - 50 State Source

Date: 2/7/2024
Reference Number: 24-01722
Date Due: 3/6/2024

Sample ID: 24_3354	Sample Origin: NY	Matrix: Source Water fo	Date Sampled: 2/6/2024	10:45
Analyte Name	Units	PQL		

Analytical Method: 537.1

Prep Method:

11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID	ng/L
2,3,3,3-TETRAFLUORO-2-(1,1,2,2,3,3,3-EPTAFLUOROPROPYL)-5,5,8,8-TETRAFLUORO-4,8-DIOXA-3H-PERFLUORONONANOIC ACID (DONA, ADONA)	ng/L
9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID	ng/L
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID	ng/L
N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID	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# : 35859108



Please send results to: subcontract@edgeanalytical.com

Relinquished CJK 2/7/24 13:20

Date Time

2/7/24 Pace

Received By

2/8/24

1030

Date

Time

0.9

Pace

Sample Condition Upon Receipt Form (SCUR)

WO#: 35859108

PM: MIM

Due Date: 02/28/24

CLIENT: EDGANA

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Initials:

Thermometer Used:

Date:

Time:

State of Origin:

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

Cooler #1 Temp. $^{\circ}\text{C}$ 0.8 (Visual) ± 0.1 (Correction Factor) 0.9 (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)

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

Tracking #

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

Comments / Resolutions (use back for additional comments):

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:

February 14, 2024

Report Information:

Pace Project #: 10683399
Sample Receipt Date: 02/08/2024
Client Project #: 24-01722
Client Sub PO #: N/A
State Cert #: 11647

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:



February 14, 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.



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-	27700
Colorado	MN00064	North Carolina-	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (170	CL101
Hawaii	MN00064	Ohio-VAP (180	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Second	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-D	382
Minnesota-Ag	via MN 027-053	West Virginia-D	9952C
Minnesota-Petr	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

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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ANALYTICAL

Burlington, WA	Corporate Laboratory (d)	1820 S Walnut St	Burlington, WA 98233	800.755.9285 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	MicrobiologyChem (d)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
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

Page 1 of 1

Subcontract Work Order

Laboratory Name: Pace Analytical Services, Inc.

1700 Elm Street

Minneapolis, MN 55414

Project: 761-019 - 50 State Source

Date: 2/7/2024

Reference Number: **24-01722**

Date Due: **3/6/2024**

Sample ID: 24_3354	Sample Origin: NY	Matrix: Source Water fo	Date Sampled: 2/6/2024 10:45
Analyte Name	Units	PQL	

Analytical Method: **1613**

Prep Method:

DIOXIN (2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN)

pg/L

5

WO#: 10683399



10683399

Please send results to: subcontract@edgeanalytical.com

Relinquish CJK 2/7/24 13:20

Date Time

Received By

Date

Time

ENV-FRM-MIN4-0150 v15 Sample Condition Upon Receipt

CLIENT NAME: Edge Analytical PROJECT #: **WO#: 10683399**

COURIER: ☒ Client ☒ Commercial ☐ FedEx ☐ Pace
☐ Speedee ☐ UPS ☐ USPS

TRACKING NUMBER: _____ ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Coole/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)
☐ T7 (0042) ☐ T8 (0775) ☒ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A

Correction Factor: -0.1 Cooler Temp Read w/Temp Blank: _____ °C Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: _____ °C

NOTE: Temp should be above freezing to 6°C. ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A - (Water) Sample/Other (describe): _____ Initials & Date of Person Examining Contents: 2-8-24 AGG

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: ☐ YES ☐ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ 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): ☐ DULUTH ☒ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)												
Chain of Custody Present and Filled Out?	☒	☐		1.												
Chain of Custody Relinquished?	☒	☐		2.												
Sampler Name and/or Signature on COC?	☐	☐	☒	3.												
Samples Arrived within Hold Time?	☒	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No												
Short Hold Time Analysis (<72 hr)?	☐	☒		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Other: _____												
Rush Turn Around Time Requested?	☐	☒		6.												
Sufficient Sample Volume?	☒	☐		7.												
Correct Containers Used?	☒	☐	☐	8.												
- Pace Containers Used?	☐	☒														
Containers Intact?	☒	☐		9.												
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☒	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO												
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☒ Water ☐ Other	☒	☐		11. If NO, write ID/Date/Time of container below: ☐ See Exceptions form ENV-FRM-MIN4-0142												
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.	☐	☐	☒	12. Sample #: ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO <table border="1"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> ☐ See Exceptions form ENV-FRM-MIN4-0142	pH Paper Lot #				Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
pH Paper Lot #																
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip													
Headspace in Methyl Mercury Container?	☐	☐	☒	13.												
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☒	14.												
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0142												
Trip Blanks Present?	☐	☐	☒	15.												
Trip Blank Custody Seals Present?	☐	☐	☒	Pace Trip Blank Lot # (if purchased): _____												

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Isaac Johnson Date: 2/8/24

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

Labeled By: AGG Line: 5

ENV-FRM-MIN4-0142 v03_Sample Condition Upon Receipt - Exceptions

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
4.3	4.2	4.5
5.2	5.1	
5.2	5.1	
3.6	3.5	

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? ☐ YES ☐ 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	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:



PaceAnalyticalServices,LLC.
1700ElmStreet
Minneapolis,MN,55414

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

Te612-607-1700
Fax612-607-6444

Sample ID.....24_3354

Client..... Edge Analytical

Lab Sample ID..... 10683399001

Date Collected.....02/06/2024

Date Received.....02/08/2024

Date Extracted.....02/09/2024

	Sample 24_3354	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	--	--	110%	112%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			2.1%	
IS Recovery	84%	76%	83%	77%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	92%	76%	86%	80%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E240213A_20	E240213A_06	E240213A_04	E240213A_05
Analysis Date	02/13/2024	02/13/2024	02/13/2024	02/13/2024
Analysis Time	19:02	12:03	11:04	11:33
Analyst	JF	JF	JF	JF
Volume	0.969L	0.949L	0.965L	0.958L
Dilution	NA	NA	NA	NA
ICAL Date	11/17/2023	11/17/2023	11/17/2023	11/17/2023
CCAL Filename	E240213A_03	E240213A_03	E240213A_03	E240213A_03

! = 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-¹³C₁₂]
CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄]

Analyst: 

Project No.....10683399



February 29, 2024

Results
Edge Analytical
1620 South Walnut Street
Burlington, WA 98233

RE: Project: 24-01722
Pace Project No.: 30659540

Dear Results:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 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,

A handwritten signature in black ink, appearing to read 'Carla'.

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: 24-01722

Pace Project No.: 30659540

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 24-01722

Pace Project No.: 30659540

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30659540001	24_3354	Drinking Water	02/06/24 10:45	02/08/24 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 24-01722
Pace Project No.: 30659540

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30659540001	24_3354	SM 7500RnB-1996	REH1	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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 24-01722

Pace Project No.: 30659540

Method: SM 7500RnB-1996

Description: 7500RnB Radon

Client: EDGE Analytical Laboratories

Date: February 29, 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:

Analyte Comments:

QC Batch: 647515

1c: Sample vial submitted for radon analysis contained headspace. Radon results should be considered estimated.

- 24_3354 (Lab ID: 30659540001)
 - Radon

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 24-01722

Pace Project No.: 30659540

Method: EPA 900.0

Description: 900.0 Gross Alpha/Beta

Client: EDGE Analytical Laboratories

Date: February 29, 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: 24-01722
Pace Project No.: 30659540

Method: EPA 903.1
Description: 903.1 Radium 226, DW
Client: EDGE Analytical Laboratories
Date: February 29, 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: 24-01722

Pace Project No.: 30659540

Method: EPA 904.0

Description: 904.0 Radium 228, DW

Client: EDGE Analytical Laboratories

Date: February 29, 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: 24-01722

Pace Project No.: 30659540

Sample: 24_3354 Lab ID: 30659540001 Collected: 02/06/24 10:45 Received: 02/08/24 09:50 Matrix: Drinking Water

PWS: Site ID: Sample Type:

Comments:

- Sample collection dates and times were not present on the sample containers.
- Received 2 X radon vials.
- The radon vial used for analysis had visible headspace; test results should be considered estimated.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radon	SM 7500RnB-1996	289.9 ± 42.5 (53.1) C:NA T:NA	pCi/L	02/09/24 03:51	10043-92-2	1c
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	-0.014 ± 0.805 (2.22) C:NA T:NA	pCi/L	02/23/24 08:28	12587-46-1	
Gross Beta	EPA 900.0	0.817 ± 0.798 (1.69) C:NA T:NA	pCi/L	02/23/24 08:28	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.170 ± 0.293 (0.741) C:NA T:93%	pCi/L	02/23/24 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.169 ± 0.289 (0.634) C:77% T:84%	pCi/L	02/26/24 11:38	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 24-01722

Pace Project No.: 30659540

QC Batch: 648371

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: 30659540001

METHOD BLANK: 3159633

Matrix: Drinking Water

Associated Lab Samples: 30659540001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.253 ± 0.222 (0.137) C:NA T:90%	pCi/L	02/23/24 13:49	

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: 24-01722

Pace Project No.: 30659540

QC Batch: 648652

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: 30659540001

METHOD BLANK: 3160737

Matrix: Water

Associated Lab Samples: 30659540001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.740 ± 0.372 (1.73) C:NA T:NA	pCi/L	02/23/24 08:28	
Gross Beta	-0.319 ± 0.523 (1.53) C:NA T:NA	pCi/L	02/23/24 08:28	

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: 24-01722

Pace Project No.: 30659540

QC Batch:	647515	Analysis Method:	SM 7500RnB-1996
QC Batch Method:	SM 7500RnB-1996	Analysis Description:	7500Rn B Radon
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30659540001		

METHOD BLANK: 3155261 Matrix: Water

Associated Lab Samples: 30659540001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	2.5 ± 18.7 (32.5) C:NA T:NA	pCi/L	02/08/24 23:48	

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: 24-01722

Pace Project No.: 30659540

QC Batch: 648372

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: 30659540001

METHOD BLANK: 3159634

Matrix: Drinking Water

Associated Lab Samples: 30659540001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00946 ± 0.287 (0.672) C:83% T:84%	pCi/L	02/26/24 11:38	

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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QUALIFIERS

Project: 24-01722
Pace Project No.: 30659540

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.

ANALYTE QUALIFIERS

1c Sample vial submitted for radon analysis contained headspace. Radon results should be considered estimated.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL

Burlington, WA	Corporate Laboratory (4)	1820 S Walnut St	Burlington, WA 98233	800.755.8295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chem (c)	9400 NW Pioneer St Ste W	Wilsonville, OR 97006	503.682.7802
Corvallis, OR	Microbiology/Chem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	Microbiology/Chem (e)	2032 Empire Ave, Ste F4	Bend, OR 97703	541.639.8425

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Subcontract Work Order

Laboratory Name: PACE ANALYTICAL - Radiological Laboratory

1638 Roseytown Road

Greenburg, PA 15601

Project: 761-019 - 50 State Source

Date: 2/7/2024

Reference Number: **24-01722**

Date Due: **3/6/2024**

Sample ID: 24_3354	Sample Origin: NY	Matrix: Source Water fo	Date Sampled: 2/6/2024 10:45
Analyte Name	Units	PQL	

Analytical Method: 900.0

Prep Method:

GROSS ALPHA

pCi/L

GROSS BETA

pCi/L

Analytical Method: 903.1

Prep Method:

RADIUM 226

pCi/L

Analytical Method: 904.0

Prep Method:

RADIUM 228

pCi/L

Analytical Method: SM7500-Rn B

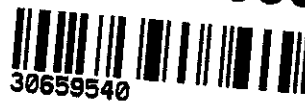
Prep Method:

RADON

pCi/L

001

WO# : 30659540



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

Please send results to: subcontract@edgeanalytical.com

Relin

CJK 2/7/24 13:20

Received By

Megan Burton 2-8-24 0850

Date

Time

Date

Time

Effective Date: 01/04/2024

WO#: 30659540

Client Name: Edge

PM: CMC

Due Date: 02/29/24

CLIENT: EDGE

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OtherTracking Number: 1Z74UM7 13 4597 4260

Initial / Date

Examined By: PS 2/8/24Labeled By: PS 2/8/24

Tempered By: _____

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals Intact: ☒ Yes ☐ NoThermometer 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:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
Chain of Custody Present	☒	☐	☐	1.	
Chain of Custody Filled Out:	☒	☐	☐	2.	
-Were client corrections present on COC	☐	☒	☐		
Chain of Custody Relinquished	☒	☐	☐	3.	
Sampler Name & Signature on COC:	☐	☒	☐	4.	
Sample Labels match COC:	☐	☒	☐	5.	
-Includes date/time/ID					
Matrix:					No dates/times on vials
Samples Arrived within Hold Time:	☒	☐	☐	6.	
Short Hold Time Analysis (<72hr remaining):	☒	☐	☐	7.	
Rush Turn Around Time Requested:	☐	☒	☐	8.	
Sufficient Volume:	☒	☐	☐	9.	
Correct Containers Used:	☒	☐	☐	10.	
-Pace Containers Used	☐	☒	☐		
Containers Intact:	☒	☐	☐	11.	
Orthophosphate field filtered:	☐	☐	☒	12.	
Hex Cr Aqueous samples field filtered:	☐	☐	☒	13.	
Organic Samples checked for dechlorination	☐	☐	☒	14.	
Filtered volume received for dissolved tests:	☐	☐	☒	15.	
All containers checked for preservation:	☐	☐	☒	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	☒	☐	☐	Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)	☐	☐	☒	17.	
624.1: Headspace in VOA Vials (0mm)	☐	☐	☒	18.	
Radon: Headspace in RAD Vials (0mm)	☐	☒	☐	19.	Headspace in both vials
Trip Blank Present:	☐	☐	☒		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	☒	☐	☐	Initial when completed <u>MSB</u>	Date: <u>2-8-24</u> Survey Meter SN: <u>2504350</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.

sites

22710-12

Notes

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[illegible]

Container Codes

Glass			
GJN	1 Gallon Jug with HNO3	DC9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass unpreserved		1L Na Thiosulfate
GJN	1 Gallon Jug		1L HCl
AG1S	1L amber glass		
AG1H	1L amber glass		erved
AG1T	1L amber glass		npreserved
AG1U	1L clear glass		
AG3S	250mL amber glass H2SO4		250mL amber glass unpreserved
AG3U	250mL amber glass unpreserved	WGKU	8oz wide jar unpreserved
		GN	General

Plastic/Misc.		
GCUB	1 gallon cubitainer	EZI 5g Encore
12GN	1/2 gallon cubitainer	VOAK Kit Volatile Solid
SP5T	120mL coliform Na Thiosulfate	I Wipe/Swab
BP1N	1L plastic HNO3	ZPLC Sploc Bag
BP1U	1L plastic unpreserved	
BP3S	250mL plastic H2SO4	WT Water
BP3N	250mL plastic HNO3	SL Solid
BP3U	250mL plastic unpreserved	OL Non-Aq Liquid
BP3C	250mL plastic NaOH	WP Wipe
BP2S	500mL plastic H2SO4	
BP2U	500mL plastic unpreserved	