



Quality Water Analysis

Corporate Headquarters
6571 Wilson Mills Road
Cleveland, Ohio 44143

Phone: 800-458-3330

This report package contains 54 pages.

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- EMSL Analytical, Inc. (1 page)
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National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166
 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Customer: Berkshire Springs Inc
 Steve Keim
 772 Norfolk Rd
 Southfield, MA 01259-9799

Source: Spring
Source City: Southfield
Source State: MA
Sample Temperature: 49.8
Field pH: 7.2

Date/Time Received: 1/9/2025 09:10

Collected by: M. Klimkosky

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

pH analysis has a 15 minute hold time from sampling to analysis. Analysis of pH past the 15 minute hold time should be considered an estimate. In addition, Chlorine, Chloramine and Chlorine Dioxide hold time is immediate, therefore results should be considered an estimate.

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
Inorganic Analytes - Metals										
1002	Aluminum	200.7	0.2	mg/L	0.05	ND	1	1/7/2025 13:00		2/10/2025
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	1/7/2025 13:00		1/14/2025
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	1/7/2025 13:00		1/14/2025
1010	Barium	200.7	2	mg/L	0.10	ND	1	1/7/2025 13:00		2/10/2025
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	1/7/2025 13:00		2/10/2025
1079	Boron	200.7	--	mg/L	0.10	ND	1	1/7/2025 13:00		2/10/2025
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	1/7/2025 13:00		2/10/2025
1016	Calcium	200.7	--	mg/L	2.0	18.0	1	1/7/2025 13:00		2/10/2025
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	1/7/2025 13:00		2/10/2025
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	1/7/2025 13:00		2/10/2025
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	1/7/2025 13:00		2/10/2025
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	1/7/2025 13:00		1/14/2025
1031	Magnesium	200.7	--	mg/L	0.10	6.60	1	1/7/2025 13:00		2/10/2025
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	1/7/2025 13:00		2/10/2025
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	1/7/2025 13:00		1/14/2025
1036	Nickel	200.7	--	mg/L	0.005	ND	1	1/7/2025 13:00		2/10/2025
1042	Potassium	200.7	--	mg/L	1.0	2.0	1	1/7/2025 13:00		2/10/2025
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	1/7/2025 13:00		1/14/2025
1049	Silica	200.7	--	mg/L	0.05	14.00	1	1/7/2025 13:00		2/10/2025

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556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
1050	Silver	200.7	0.10	mg/L	0.002	ND	1	1/7/2025 13:00		2/10/2025
1052	Sodium	200.7	--	mg/L	1	2	1	1/7/2025 13:00		2/10/2025
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	1/7/2025 13:00		1/14/2025
4006	Uranium	200.8	0.030	mg/L	0.001	ND	1	1/7/2025 13:00		1/14/2025
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	1/7/2025 13:00		2/10/2025
Physical Factors										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	72	1	1/7/2025 13:00		1/16/2025
1905	Apparent Color	2120B	15	CU	3	ND	1	1/7/2025 13:00		1/9/2025 11:10
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	72	1	1/7/2025 13:00		1/16/2025
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	1/7/2025 13:00		1/16/2025
1910	Corrosivity	2330B	--	SI		-1.29	R2 1	1/7/2025 13:00		2/10/2025
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	1/7/2025 13:00		1/9/2025 11:55
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole										
1915	Hardness	2340B	--	mg/L	5.0	72	1	1/7/2025 13:00		2/10/2025
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND	1	1/7/2025 13:00		1/16/2025
1920	Odor Temperature	2150B	--	Deg, C		21	1	1/7/2025 13:00		1/9/2025 16:00
1920	Odor Threshold	2150B	3	ton	1	ND	Q 1	1/7/2025 13:00		1/9/2025 16:00
1925	pH	150.1	6.5-8.5	pH Units		7.0	1	1/7/2025 13:00		1/9/2025 10:55
4254	pH Temperature	150.1	--	Deg, C		27	1	1/7/2025 13:00		1/9/2025 10:55
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	150	1	1/7/2025 13:00		1/29/2025
1930	Total Dissolved Solids	2540C	500	mg/L	5	97	1	1/7/2025 13:00		1/10/2025
0100	Turbidity	2130B	1	NTU	0.1	ND	1	1/7/2025 13:00		1/9/2025 11:00
Inorganic Analytes - Other										
1011	Bromate	300.1	0.010	mg/L	0.005	ND	1	1/7/2025 13:00		1/13/2025
1004	Bromide	300.1	--	mg/L	0.005	ND	1	1/7/2025 13:00		1/13/2025
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	1/7/2025 13:00		1/13/2025 14:14
1017	Chloride	300.0	250	mg/L	1.0	ND	1	1/7/2025 13:00		1/9/2025 11:09
1000	Chlorine - Total	4500Cl-G	--	mg/L	0.10	ND	1	1/7/2025 13:00		1/13/2025 14:14
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	1/7/2025 13:00		1/13/2025 14:11
1008	Chlorine Dioxide as ClO2	4500ClO2D	0.8	mg/L	0.1	ND	1	1/7/2025 13:00		1/13/2025 14:14
1009	Chlorite	300.1	1.0	mg/L	0.005	ND	1	1/7/2025 13:00		1/13/2025
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	1/7/2025 13:00		1/9/2025 11:09
1040	Nitrate as N	300.0	10	mg/L	0.05	0.16	1	1/7/2025 13:00		1/9/2025 11:09
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	1/7/2025 13:00		1/9/2025 11:09
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	1	1/7/2025 13:00		1/9/2025 11:09
1055	Sulfate	300.0	250	mg/L	5.0	6.2	1	1/7/2025 13:00		1/9/2025 11:09
Organic Analytes - Trihalomethanes										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025

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ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
Organic Analytes - Haloacetic Acids										
2454	Dibromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
2451	Dichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
2453	Monobromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
2450	Monochloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
2452	Trichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
2456	Total HAAs	552.2 HAAs 60		ug/L	1.0	ND	1	1/7/2025 13:00	1/10/2025	1/20/2025
Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025

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ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	R2 1	1/7/2025 13:00		1/13/2025
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	1/7/2025 13:00		1/13/2025
Due to the limitation of EPA Method 524.2, p and m isomers of Xylene are reported as aggregate.										
2998	Propylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	1/7/2025 13:00		1/13/2025
Organic Analytes - Others										
2414	1,2,3-Trichloropropane	504.1	0.00003	mg/L	0.00001	ND	1	1/7/2025 13:00	1/16/2025	1/16/2025
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	1/7/2025 13:00	1/16/2025	1/16/2025
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	1/7/2025 13:00	1/16/2025	1/16/2025
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2356	Aldrin	505	--	mg/L	0.00007	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025

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ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2625	Bentazon	515.4	--	ug/L	1	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.02	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2031	Dalapon	515.4	200	ug/L	1	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2440	Dicamba	515.4	--	ug/L	1	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2933	Dichloran	505	--	mg/L	0.001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2070	Dieldrin	505	--	mg/L	0.00002	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2032	Diquat	549.2	20	ug/L	0.4	ND	1	1/7/2025 13:00	1/10/2025	1/22/2025
2033	Endothall	548.1	100	ug/L	9	ND	1	1/7/2025 13:00	1/13/2025	1/23/2025
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2034	Glyphosate	547	700	ug/L	6	ND	1	1/7/2025 13:00		1/16/2025
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2626	Molinate	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	1/7/2025 13:00		1/28/2025
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2040	Picloram	515.4	500	ug/L	0.1	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	1/7/2025 13:00	1/17/2025	1/23/2025
2037	Simazine	525.2	4	ug/L	0.07	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	1/7/2025 13:00	1/16/2025	1/31/2025
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2 1	1/7/2025 13:00		1/14/2025
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025
2055	Trifluralin	505	--	mg/L	0.001	ND	1	1/7/2025 13:00	1/13/2025	1/13/2025

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National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166
 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 474449

2/12/2025

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
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Qualifiers:

- R2: The laboratory is not licensed for this parameter. The reported result cannot be used for compliance purposes.
- Q: Sample analyzed beyond the accepted holding time.

Analyst	Tests
ZSC	200.7,2330B,2340B
DMJ	200.8
SP	2320B,2120B,5540C,2150B,150.1,2510B,2130B
CF	2540C
SG	300.1,300.0
DHG	4500CI-G,4500CI02D,420.4
SB	524.2 THMs,524.2,531.2,547
BNF	552.2 HAAs,504.1,515.4,505
JLF	525.2,548.1
JF	549.2



Christine MacMillan, Technical Director

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National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166
 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 474448

2/12/2025

Customer: Berkshire Springs Inc
 Steve Keim
 772 Norfolk Rd
 Southfield, MA 01259-9799

Source: Spring
Source City: Southfield
Source State: MA
Sample Temperature: 49.8
Field pH: 7.2

Date/Time Received: 1/9/2025 09:10

Collected by: M. Klimkosky

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
Microbiologicals										
3114	E. Coli	9223B	1	MPN/100 mL	1	ND	Q	1	1/7/2025 13:00	1/9/2025 12:58
3001	Standard Plate Count	9215B	500	CFU/ml	1	5	A6,Q	1	1/7/2025 13:00	1/9/2025 12:37
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	Q	1	1/7/2025 13:00	1/9/2025 12:58

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

A6: The colony count for SPC bacteria is outside the method specifications and the result should be considered as estimated CFU per milliliter.

Analyst	Tests
CF	9223B,9215B



Christine MacMillan, Technical Director

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Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

National Laboratories
National Testing Laboratories
6571 Wilson Mills Road
Cleveland OH 44143

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

Report Summary:

Enclosed are analytical results of one drinking water sample analyzed for 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613B by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

The results reported for this sample and the associated quality control samples were all within the criteria described in Method 1613B. If you have any questions or concerns regarding these results, please contact Joanne Richardson, your Pace Project Manager.

Pace Project Number:

10720817

Report Prepared Date:

January 20, 2025

Product Source

Sample ID: 474449
Source Name: Spring
Source Location: Southfield MA
PWS ID: N/A
Laboratory Sample ID: 10720817001
Date Sampled: 01/07/2025 @ 13:00
Date Received: 01/10/2025 @ 12:05

This report has been reviewed by:

January 20, 2025

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

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



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

Minnesota Laboratory Certifications

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

REPORT OF LABORATORY ANALYSIS

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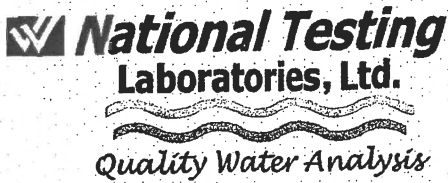
Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

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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1-800-458-3330

Beverage - Source Water

Order Number: 2256183
Order Date: 12/30/2024
Sample Number: 474449
Product: 50 DDBP


Paid: No Method: None Selected P.O.:
TSR: SBW

Southfield MA 01259-9799

Date Sampled: 1/7/25
Time Sampled: 13:00 Please Use Military Time, e.g. 3:00pm = 15:00
Check Time Zone: EST CST MST PST

Source Water Information:

PWS ID# (if applicable):
Source Name: Spring
City & State: Southfield MA
Sample Collected By: Matt Klimkosky (Signature)
Sample Collected By: Matt Klimkosky (Please Print)
Sample Temperature: 49.8 Field pH: 7.2
Measured at Source By: Matt Klimkosky
Form Completed By: Matt Klimkosky
Additional Comments:

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
Production Borehole	
3°C	
Dioxin	
State Forms:	
Lab Sample Information:	
Date Received:	RECEIVED JAN 09 2025
Time Received:	: 0910
Received By:	AB
<input type="checkbox"/> Sample receipt criteria checked & acceptable. <input checked="" type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	
	

Rev: SRT102120 INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

WO#: 10720817

CLIENT NAME: NTL PROJECT #:

PM: JMR Due Date: 01/21/25
CLIENT: NTL

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

TRACKING NUMBER: 1Z AIV 931 0173062870 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
Packing Material: Bubble Bags Bubble Wrap None Other ^{FORM} 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: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>4.1</u> Cooler Temp Read w/Temp Blank: <u>4.8</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
NOTE: Temp should be above freezing to 6°C. Cooler Temp Corrected w/Temp Blank: <u>4.9</u> °C	<input type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: <input type="checkbox"/> N/A - Water Sample/Other (describe): _____	Initials & Date of Person Examining Contents: <u>ZE 1/10/25</u>
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one):	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>		11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
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	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <td>Residual Chlorine</td> <td>0-6 Roll</td> <td>0-6 Strip</td> <td>0-14 Strip</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.												
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: YES NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Jeanne Richardson Date: 1-10-25

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

Labeled By: ZE Line: (3)



January 23, 2025

Reports
National Testing Laboratories, Ltd.
6571 Wilson Mills Road
Cleveland, OH 44143

RE: Project: 2256183
Pace Project No.: 30747720

Dear Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on January 10, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Suzette Berlet-Walker, Suzette Berlet-Walker
NTL Invoice, National Testing Laboratories, Ltd.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2256183
Pace Project No.: 30747720

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: 2256183
Pace Project No.: 30747720

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30747720001	474449	Drinking Water	01/07/25 13:00	01/10/25 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2256183
Pace Project No.: 30747720

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30747720001	474449	SM 7500RnB-1996	CS2	1	PASI-PA
		EPA 900.0	REH1	2	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2256183
Pace Project No.: 30747720

Method: SM 7500RnB-1996
Description: 7500RnB Radon
Client: National Testing Laboratories, Ltd.
Date: January 23, 2025

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2256183
Pace Project No.: 30747720

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: National Testing Laboratories, Ltd.
Date: January 23, 2025

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: 2256183
Pace Project No.: 30747720

Method: EPA 903.1
Description: 903.1 Radium 226, DW
Client: National Testing Laboratories, Ltd.
Date: January 23, 2025

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: 2256183
Pace Project No.: 30747720

Method: EPA 904.0
Description: 904.0 Radium 228, DW
Client: National Testing Laboratories, Ltd.
Date: January 23, 2025

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2256183
Pace Project No.: 30747720

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: National Testing Laboratories, Ltd.
Date: January 23, 2025

General Information:

1 sample was analyzed for Total Radium Calculation 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: 2256183
 Pace Project No.: 30747720

Sample: 474449 Lab ID: 30747720001 Collected: 01/07/25 13:00 Received: 01/10/25 09:15 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

- Comments:
- No brand type/product code listed, no container size listed, no production code/lot number listed.
 - No date/time/opened by listed.
 - SOURCE WATER, Spring, Southfield, MA
 - The sampler's name and signature were not listed on the COC.
 - Sample collection dates and times were not present on the sample containers.
 - Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis, where the method requires preservation, in drinking water.
 - The samples were preserved pH <2 within the required 5 days of collection (EPA 815-R-05-004).

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radon	SM 7500RnB-1996	143.8 ± 39.9 (58.5) C:NA T:NA	pCi/L	01/10/25 23:56	10043-92-2	
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	-0.466 ± 0.725 (2.46) C:NA T:NA	pCi/L	01/21/25 08:08	12587-46-1	
Gross Beta	EPA 900.0	1.17 ± 0.962 (2.03) C:NA T:NA	pCi/L	01/21/25 08:08	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0496 ± 0.218 (0.534) C:NA T:101%	pCi/L	01/23/25 11:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.219 ± 0.268 (0.570) C:78% T:87%	pCi/L	01/20/25 12:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.219 ± 0.486 (1.10)	pCi/L	01/23/25 15:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2256183
 Pace Project No.: 30747720

QC Batch: 720401	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: 30747720001

METHOD BLANK: 3507798 Matrix: Water

Associated Lab Samples: 30747720001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.017 ± 0.717 (1.93) C:NA T:NA	pCi/L	01/21/25 08:08	
Gross Beta	-0.199 ± 0.588 (1.57) C:NA T:NA	pCi/L	01/21/25 08:08	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2256183
 Pace Project No.: 30747720

QC Batch: 720259	Analysis Method: SM 7500RnB-1996
QC Batch Method: SM 7500RnB-1996	Analysis Description: 7500Rn B Radon
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30747720001

METHOD BLANK: 3507266 Matrix: Water

Associated Lab Samples: 30747720001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-3.3 ± 17.7 (31.2) C:NA T:NA	pCi/L	01/10/25 21:09	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2256183
 Pace Project No.: 30747720

QC Batch: 720174	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: 30747720001

METHOD BLANK: 3507004 Matrix: Drinking Water
 Associated Lab Samples: 30747720001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0817 ± 0.299 (0.576) C:NA T:91%	pCi/L	01/23/25 11:04	

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: 2256183
Pace Project No.: 30747720

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

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

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2256183
Pace Project No.: 30747720

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30747720001	474449	SM 7500RnB-1996	720259		
30747720001	474449	EPA 900.0	720401		
30747720001	474449	EPA 903.1	720174		
30747720001	474449	EPA 904.0	720175		
30747720001	474449	Total Radium Calculation	722655		

REPORT OF LABORATORY ANALYSIS

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1-800-458-3330

Beverage - Source Water

Order Number: 2256183
Order Date: 12/30/2024
Sample Number: 674449
Product: 50 DDBP

Paid: No Method: None Selected P.O.:
TSR: SBW

Southfield

MA 01259-9799

Date Sampled: 1/7/25

Time Sampled: 13:00 Please Use Military Time, e.g. 3:00pm = 15:00

Check Time Zone: EST CST MST PST

WO#: 30747720
PM: CMC Due Date: 01/31/25
CLIENT: NTL

Source Water Information:

PWS ID# (if applicable): _____

Source Name: Spring

City & State: Southfield MA

Sample Collected By: Matt Klimkosky
(If Different than Above)

Sample Collected By: Matt Klimkosky
(Please Print)

Sample Temperature: 49.8 Field pH: 7.2

Measured at Source By: Matt Klimkosky

Form Completed By: Matt Klimkosky

Additional Comments:

For Laboratory Use ONLY

Lab Accounting Information:

Payment \$: _____

Check #: _____

Lab Comments/Special Instructions:

Production Borehole

3°C
Radon, Gads

State Forms:

Lab Sample Information:

Date Received: RECEIVED JAN 09 2025

Time Received: : 0910

Received By: AB

- Sample receipt criteria checked & acceptable.
- Deviations from acceptable sample receipt criteria noted on PSA form.

PSA ^{Log in}

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt- Greensburg
 Effective Date: 01/04/2024

WO#: 30747720
 PM: CMC Due Date: 01/31/25
 CLIENT: NTL

Client Name: NTL
 Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 1Z AIV 931 01 7525 1660

Initial / Date
 Examined By: EL 1/10/25
 Labeled By: EL 1/10/25
 Temped By:

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No
 Thermometer Used: Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp °C Correction Factor: °C Final Temp: °C
 Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>10D3241</u>	<u> </u>
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:	/			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>DW</u>		/		5.	<u>No sample date/time on sample labels</u>
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):	/			7.	<u>Radon</u>
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:		/		12.	
Hex Cr Aqueous samples field filtered:		/		13.	
Organic Samples checked for dichlorination		/		14.	
Filtered volume received for dissolved tests:		/		15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	<u>Added 2.5mL HNO3 to each of the 3BPV's provided / Radon</u>
All containers meet method preservation requirements:		/		Initial when completed <u>EL</u>	Date/Time of Preservation <u>1/10/25 1035</u>
				Lot# of added Preservative <u>30209709</u>	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Radon: Headspace in RAD Vials (0mm)	/			19.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed <u>EL</u>	Date: <u>1/10/25</u> Survey Meter SN: <u>25014380</u>
Comments:					

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



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: 042500632
Customer ID: NTLI78
Customer PO: 14630
Project ID:

Attn: Subcontract
National Testing Laboratories, Inc.
6571 Wilson Mills Road
Cleveland, OH 44143

Phone: (440) 449-2525
Fax: (Ema) il -only
Received: 01/13/2025
Analyzed: 01/15/2025

Proj: 474449

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

ASBESTOS

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm ²)	Area Analyzed (mm ²)	Asbestos Types	Fibers Detected	Analytical Sensitivity	MFL (million fibers per liter)	
								Concentration	Confidence Limits
474449 042500632-0001	1/14/2025 02:43 PM	50	1336	0.1419	None Detected	ND	0.19	<0.19	0.00 - 0.69

Collection Date/Time: 01/07/2025 13:00 PM

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

Bottle supplied by client.

Analyst(s)

Michelle Quach (1)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 01/15/2025 14:44:26

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



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

Case Narrative

Client: National Testing Laboratories, Ltd
Project: 474449 / 2256183

Job ID: 810-133958-1

Job ID: 810-133958-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-133958-1

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

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

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

Receipt

The sample was received on 1/10/2025 10:15 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 1.8°C.

GC/MS Semi VOA

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

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.



Client Sample Results

Client: National Testing Laboratories, Ltd
 Project/Site: 474449 / 2256183

Job ID: 810-133958-1

Client Sample ID: 474449 / 2256183

Lab Sample ID: 810-133958-1

Date Collected: 01/07/25 13:00

Matrix: Drinking Water

Date Received: 01/10/25 10:15

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	<0.070		0.070		ug/L		01/15/25 08:16	01/15/25 20:56	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,4-Dioxane-d8 (Surr)	94		70 - 130				01/15/25 08:16	01/15/25 20:56	1	

Method: EPA 331.0 - Perchlorate (LC/MS/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Perchlorate	<0.050		0.050		ug/L			01/14/25 01:17	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Cyanide, Total (EPA 335.4)	<0.0050		0.0050		mg/L		01/15/25 07:25	01/15/25 09:55	1	



Definitions/Glossary

Client: National Testing Laboratories, Ltd
Project/Site: 474449 / 2256183

Job ID: 810-133958-1



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

Lab Chronicle

Client: National Testing Laboratories, Ltd
Project/Site: 474449 / 2256183

Job ID: 810-133958-1

Client Sample ID: 474449 / 2256183

Lab Sample ID: 810-133958-1

Date Collected: 01/07/25 13:00

Matrix: Drinking Water

Date Received: 01/10/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			129503	MP	EA SB	01/15/25 08:16
Total/NA	Analysis	522		1	129636	BC	EA SB	01/15/25 20:56
Total/NA	Analysis	331.0		1	129272	GL	EA SB	01/14/25 01:17
Total/NA	Prep	Distill/CN			129495	KH	EA SB	01/15/25 07:25
Total/NA	Analysis	335.4		1	129530	KH	EA SB	01/15/25 09:55

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Accreditation/Certification Summary

Client: National Testing Laboratories, Ltd
Project/Site: 474449 / 2256183

Job ID: 810-133958-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
Ohio	State	87775	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
331.0		Drinking Water	Perchlorate
335.4	Distill/CN	Drinking Water	Cyanide, Total
522	522	Drinking Water	1,4-Dioxane



Method Summary

Client: National Testing Laboratories, Ltd
Project/Site: 474449 / 2256183

Job ID: 810-133958-1



Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB
331.0	Perchlorate (LC/MS/MS)	EPA	EA SB
335.4	Cyanide, Total	EPA	EA SB
522	Solid-Phase Extraction (SPE)	EPA	EA SB
Distill/CN	Distillation, Cyanide	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: National Testing Laboratories, Ltd
Project/Site: 474449 / 2256183

Job ID: 810-133958-1



Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-133958-1	474449 / 2256183	Drinking Water	01/07/25 13:00	01/10/25 10:15



1-800-458-3330

Beverage - Source Water

Order Number: 2256183
 Order Date: 12/30/2024
 Sample Number: 474449
 Product: 50 DDBP
 Paid: No Method: None Selected P.O.:
 TSR: SBW

Southfield

MA 01259-9799

Date Sampled: 1/7/25

Time Sampled: 13:00 Please Use Military Time, e.g. 3:00pm = 15:00

Check Time Zone: EST CST MST PST

Source Water Information:

PWS ID# (if applicable): _____

Source Name: Spring

City & State: Southfield MA

Sample Collected By: *Matt Klimkosky* (If Different than Above)


Sample Collected By: Matt Klimkosky (Signature)
(Please Print)

Sample Temperature: 49.8 Field pH: 7.2

Measured at Source By: Matt Klimkosky

Form Completed By: Matt Klimkosky

Additional Comments:

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
Production Borehole	
3°C Cn, perchlorate, 1,4-Dioxane	
State Forms:	
Lab Sample Information:	
Date Received:	RECEIVED JAN 09 2025
Time Received:	: 0910
Received By:	AB
<input type="checkbox"/> Sample receipt criteria checked & acceptable. <input checked="" type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	
	

Rev: SRT102120

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS





Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 15, 2025

Christine Macmillan
National Testing Laboratories, LTD
6571 Wilson Mills Road
Cleveland, OH 44143

Project Location: 2256183
Client Job Number:
Project Number: 2256183
Laboratory Work Order Number: 25A0509

Enclosed are results of analyses for samples as received by the laboratory on January 10, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karriem G. Marius
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
25A0509-01	5
Sample Preparation Information	6
QC Data	7
Semivolatile Organic Compounds by - LC/MS-MS	7
B396649	7
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



Pace Analytical Services, LLC - East Longmeadow, Ma

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National Testing Laboratories, LTD
6571 Wilson Mills Road
Cleveland, OH 44143
ATTN: Christine Macmillan

REPORT DATE: 1/15/2025

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2256183

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25A0509

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 2256183

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
474449	25A0509-01	Water		EPA 537.1	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Lisa A. Worthington".

Lisa A. Worthington
Technical Representative



Project Location: 2256183
 Date Received: 1/10/2025
 Field Sample #: 474449
 Sample ID: 25A0509-01
 Sample Matrix: Water

Sample Description:
 Sampled: 1/7/2025 13:00

Work Order: 25A0509

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	0.76	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorohexanoic acid (PFHxA)	ND	1.9	1.0	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	0.91	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.9	0.93	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorooctanoic acid (PFOA)	ND	1.9	1.1	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	0.85	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorononanoic acid (PFNA)	ND	1.9	0.94	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorodecanoic acid (PFDA)	ND	1.9	0.92	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
N-EtFOSAA (NEtFOSAA)	ND	1.9	0.86	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.9	0.90	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
N-MeFOSAA (NMeFOSAA)	ND	1.9	0.82	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorododecanoic acid (PFDoA)	ND	1.9	0.86	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorotridecanoic acid (PFTriDA)	ND	1.9	0.85	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Perfluorotetradecanoic acid (PFTA)	ND	1.9	0.84	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	1.4	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
11Cl-PF3OUdS (F53B Major)	ND	1.9	0.72	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
9Cl-PF3ONS (F53B Minor)	ND	1.9	0.81	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	0.95	ng/L	1		EPA 537.1	1/13/25	1/14/25 19:01	CML

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	100	70-130	1/14/25 19:01
M3HFPO-DA	93.5	70-130	1/14/25 19:01
13C-PFDA	96.9	70-130	1/14/25 19:01
D5-NEtFOSAA	106	70-130	1/14/25 19:01



Pace Analytical Services, LLC - East Longmeadow, Ma

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Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0509-01 [474449]	B396649	270	1.00	01/13/25



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B396649 - EPA 537.1

Blank (B396649-BLK1)

Prepared: 01/13/25 Analyzed: 01/14/25

Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.75	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.90	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8	0.92	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8	1.1	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	0.84	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8	0.92	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8	0.91	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.85	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.89	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.8	0.81	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.85	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	1.8	0.84	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	1.8	0.83	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	1.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8	0.72	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8	0.80	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	0.94	ng/L							
Surrogate: 13C-PFHxA	37.3			ng/L	36.58		102	70-130			
Surrogate: M3HFPO-DA	36.1			ng/L	36.58		98.8	70-130			
Surrogate: 13C-PFDA	36.7			ng/L	36.58		100	70-130			
Surrogate: D5-NEtFOSAA	149			ng/L	146.3		102	70-130			

LCS (B396649-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

Perfluorobutanesulfonic acid (PFBS)	9.73	1.8	0.74	ng/L	8.032		121	70-130			
Perfluorohexanoic acid (PFHxA)	10.9	1.8	0.97	ng/L	9.056		120	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.3	1.8	0.89	ng/L	8.277		124	70-130			
Perfluoroheptanoic acid (PFHpA)	10.6	1.8	0.91	ng/L	9.056		117	70-130			
Perfluorooctanoic acid (PFOA)	11.0	1.8	1.1	ng/L	9.056		122	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.05	1.8	0.83	ng/L	8.404		108	70-130			
Perfluorononanoic acid (PFNA)	11.5	1.8	0.92	ng/L	9.056		127	70-130			
Perfluorodecanoic acid (PFDA)	11.1	1.8	0.90	ng/L	9.056		122	70-130			
N-EtFOSAA (NEtFOSAA)	9.51	1.8	0.84	ng/L	9.056		105	70-130			
Perfluoroundecanoic acid (PFUnA)	10.7	1.8	0.88	ng/L	9.056		118	70-130			
N-MeFOSAA (NMeFOSAA)	9.89	1.8	0.81	ng/L	9.056		109	70-130			
Perfluorododecanoic acid (PFDoA)	10.1	1.8	0.85	ng/L	9.056		112	70-130			
Perfluorotridecanoic acid (PFTriDA)	10.2	1.8	0.83	ng/L	9.056		113	70-130			
Perfluorotetradecanoic acid (PFTA)	10.6	1.8	0.83	ng/L	9.056		117	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.4	1.8	1.3	ng/L	9.056		115	70-130			
11Cl-PF3OUdS (F53B Major)	9.42	1.8	0.71	ng/L	8.540		110	70-130			
9Cl-PF3ONS (F53B Minor)	10.7	1.8	0.79	ng/L	8.449		127	70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.3	1.8	0.93	ng/L	8.558		120	70-130			
Surrogate: 13C-PFHxA	35.4			ng/L	36.22		97.6	70-130			
Surrogate: M3HFPO-DA	34.7			ng/L	36.22		95.9	70-130			
Surrogate: 13C-PFDA	34.7			ng/L	36.22		95.9	70-130			
Surrogate: D5-NEtFOSAA	143			ng/L	144.9		98.5	70-130			



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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B396649 - EPA 537.1

LCS Dup (B396649-BSD1)

Prepared: 01/13/25 Analyzed: 01/14/25

Perfluorobutanesulfonic acid (PFBS)	9.89	1.9	0.77	ng/L	8.325		119	70-130	1.57	30	
Perfluorohexanoic acid (PFHxA)	10.6	1.9	1.0	ng/L	9.386		113	70-130	2.43	30	
Perfluorohexanesulfonic acid (PFHxS)	10.5	1.9	0.92	ng/L	8.579		123	70-130	2.42	30	
Perfluoroheptanoic acid (PFHpA)	9.90	1.9	0.95	ng/L	9.386		105	70-130	7.03	30	
Perfluorooctanoic acid (PFOA)	10.9	1.9	1.1	ng/L	9.386		116	70-130	1.07	30	
Perfluorooctanesulfonic acid (PFOS)	9.01	1.9	0.86	ng/L	8.710		103	70-130	0.492	30	
Perfluorononanoic acid (PFNA)	10.8	1.9	0.95	ng/L	9.386		115	70-130	6.10	30	
Perfluorodecanoic acid (PFDA)	10.5	1.9	0.93	ng/L	9.386		112	70-130	4.74	30	
N-EtFOSAA (NEtFOSAA)	10.1	1.9	0.87	ng/L	9.386		108	70-130	6.50	30	
Perfluoroundecanoic acid (PFUnA)	10.6	1.9	0.92	ng/L	9.386		113	70-130	0.508	30	
N-MeFOSAA (NMeFOSAA)	9.99	1.9	0.83	ng/L	9.386		106	70-130	1.07	30	
Perfluorododecanoic acid (PFDoA)	9.69	1.9	0.88	ng/L	9.386		103	70-130	4.47	30	
Perfluorotridecanoic acid (PFTTrDA)	9.70	1.9	0.86	ng/L	9.386		103	70-130	5.11	30	
Perfluorotetradecanoic acid (PFTA)	10.2	1.9	0.86	ng/L	9.386		109	70-130	3.53	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.84	1.9	1.4	ng/L	9.386		105	70-130	5.50	30	
11Cl-PF3OUdS (F53B Major)	9.76	1.9	0.74	ng/L	8.851		110	70-130	3.52	30	
9Cl-PF3ONS (F53B Minor)	10.7	1.9	0.82	ng/L	8.757		122	70-130	0.516	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.90	1.9	0.97	ng/L	8.870		112	70-130	3.64	30	
Surrogate: 13C-PFHxA	34.8			ng/L	37.54		92.6	70-130			
Surrogate: M3HFPO-DA	34.3			ng/L	37.54		91.5	70-130			
Surrogate: 13C-PFDA	32.3			ng/L	37.54		86.1	70-130			
Surrogate: D5-NEtFOSAA	140			ng/L	150.2		93.0	70-130			



FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level
- ND Not Detected
- RL Reporting Limit
- DL Method Detection Limit
- MCL Maximum Contaminant Level

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

No results have been blank subtracted unless specified in the case narrative section.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537.1 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorohexanoic acid (PFHxA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluoroheptanoic acid (PFHpA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorononanoic acid (PFNA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
Perfluorodecanoic acid (PFDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-EtFOSAA (NEtFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluoroundecanoic acid (PFUnA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
N-MeFOSAA (NMeFOSAA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorododecanoic acid (PFDoA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotridecanoic acid (PFTrDA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Perfluorotetradecanoic acid (PFTA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH,VA
11Cl-PF3OUdS (F53B Major)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
9Cl-PF3ONS (F53B Minor)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,NJ,CT,ME,PA,MI,MA,NY,NH,OH

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
MI	Dept. of Env, Great Lakes, and Energy	9100	06/30/2025
OH	Ohio Environmental Protection Agency	87781	04/1/2025



1-800-458-3330

Beverage - Source Water

Order Number: 2256183
 Order Date: 12/30/2024
 Sample Number: 474449
 Product: 50 DDBP
 Paid: No Method: None Selected P.O.:
 TSR: SBW

Southfield

MA 01259-9799

Date Sampled: 1/7/25
 Time Sampled: 13:00 Please Use Military Time, e.g. 3:00pm = 15:00
 Check Time Zone: EST CST MST PST

Source Water Information:

PWS ID# (if applicable): _____
 Source Name: Spring
 City & State: Southfield MA
 Sample Collected By: *Matt Klimkosky* (Signature)
 Sample Collected By: Matt Klimkosky (Please Print)
 Sample Temperature: 49.8 Field pH: 7.2
 Measured at Source By: Matt Klimkosky
 Form Completed By: Matt Klimkosky
 Additional Comments:

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
Production Borehole	
3°C	
PFAS (18)	
State Forms:	
Lab Sample Information:	
Date Received:	RECEIVED JAN 09 2025
Time Received:	: 0910
Received By:	AB
<input type="checkbox"/> Sample receipt criteria checked & acceptable. <input checked="" type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	



DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Client National Testing Laboratories, Ltd

Project N/A

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location Southfield MA

PWSID# (When Applicable) N/A

Arrival Method:

Courier Fed Ex Walk In Other UPS

Received By / Date / Time RL / 1-10-25 / 1237

Back-Sheet By / Date / Time RL / 1-10-25 / 1445

Temperature Method gun # 6

WV samples: Yes (see note*) / (follow normal procedure)

Temp < 6° C Actual Temperature 3.6

Rush Samples: Yes / Notify

Short Hold: Yes / Notify

Notes regarding Samples/COC outside of SOP:

Blank lines for notes regarding samples and COC outside of SOP.

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input type="checkbox"/>
Project <input type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH: <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Container Notes

*Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Blank lines for additional container notes.



DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars				Ambers				Plastics						VOA Vials				Other / Fill in										
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact		
1																													
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