



**Corporate Headquarters**  
6571 Wilson Mills Road  
Cleveland, Ohio 44143

**Phone: 800-458-3330**

This report package contains 49 pages.

This package contains reports from the following laboratories:

- National Testing Laboratories, Ltd. (9 pages)
- Pace Analytical Services, Inc.- Minneapolis, MN (8 pages)
- Pace Analytical Services, Inc.-Greensburg, PA (1 page)
- EMSL Analytical, Inc. (1 page)
- Eurofins Eaton Analytical, Inc. (1 page)
- Eurofins Lancaster Laboratories Env, LLC (1 page)
- Alpha Analytical (23 pages)
- NSF International (4 pages)



If you have any questions, please contact Susan Henderson at 1-800-458-3330.

Laboratory ID: NY:11467, PA:68-00362

# National Testing Laboratories, Ltd

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

## ANALYTICAL REPORTS

SAMPLE CODE: 428813

4/12/2022

**Customer:** Creekside Springs-PA  
Brooke Fazekas  
302 Merchant Street  
Ambridge, PA 15003

**Source:** Ambridge Water Authority  
**Source Type:** Municipal Water  
**Brand Name:** Purified Water (Drinking)  
**Production Code:** Best By 2/23/24  
**Container Size:** 1 Gallon  
**PA PWS ID#:** 5046492  
**PA Location:** EP 101

**Date/Time Received:** 2/28/2022 09:09

**Collected by:** B. Fazekas

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	3/7/2022 14:26		3/16/2022
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	3/7/2022 14:26		3/14/2022
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	3/7/2022 14:26		3/14/2022
1010	Barium	200.7	2	mg/L	0.10	ND	1	3/7/2022 14:26		3/16/2022
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	3/7/2022 14:26		3/16/2022
1079	Boron	200.7	--	mg/L	0.10	ND	1	3/7/2022 14:26		3/16/2022
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	3/7/2022 14:26		3/16/2022
1016	Calcium	200.7	--	mg/L	2.0	ND	1	3/7/2022 14:26		3/16/2022
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	3/7/2022 14:26		3/16/2022
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	3/7/2022 14:26		3/16/2022
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	3/7/2022 14:26		3/16/2022
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	3/7/2022 14:26		3/14/2022
1031	Magnesium	200.7	--	mg/L	0.10	ND	1	3/7/2022 14:26		3/16/2022
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	3/7/2022 14:26		3/16/2022
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	3/7/2022 14:26		3/14/2022
1036	Nickel	200.7	--	mg/L	0.005	ND	1	3/7/2022 14:26		3/16/2022
1042	Potassium	200.7	--	mg/L	1.0	ND	1	3/7/2022 14:26		3/16/2022
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	3/7/2022 14:26		3/14/2022
1049	Silica	200.7	--	mg/L	0.05	0.09	1	3/7/2022 14:26		3/16/2022

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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: 428813**

**4/12/2022**

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	3/7/2022 14:26		3/16/2022
1052	Sodium	200.7	--	mg/L	1	ND	1	3/7/2022 14:26		3/16/2022
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	3/7/2022 14:26		3/14/2022
4009	Uranium	200.8	0.030	mg/L	0.001	ND	1	3/7/2022 14:26		3/14/2022
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	3/7/2022 14:26		3/16/2022
<b>Physical Factors</b>										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND	1	3/7/2022 14:26		3/15/2022
1905	Apparent Color	2120B	15	CU	3	ND	1	3/7/2022 14:26		3/8/2022 08:55
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	3/7/2022 14:26		3/15/2022
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	3/7/2022 14:26		3/15/2022
1910	Corrosivity	2330B	--	SI		-4.83	R2 1	3/7/2022 14:26		3/16/2022
1915	Hardness	2340B	--	mg/L	5.0	ND	1	3/7/2022 14:26		3/16/2022
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND	1	3/7/2022 14:26		3/15/2022
1920	Odor Threshold	2150B	3	ton	1	ND	1	3/7/2022 14:26		3/7/2022 16:20
1925	pH	150.1	5-7	pH Units		5.8	1	3/7/2022 14:26		3/7/2022 16:00
4254	pH Temperature	150.1	--	Deg, C		23	1	3/7/2022 14:26		3/7/2022 16:00
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	4	1	3/7/2022 14:26		3/8/2022
1930	Total Dissolved Solids	2540C	500	mg/L	5	ND	1	3/7/2022 14:26		3/9/2022
0100	Turbidity	2130B	1	NTU	0.1	ND	1	3/7/2022 14:26		3/7/2022 17:50
<b>Inorganic Analytes - Other</b>										
1011	Bromate	300.1	0.010	mg/L	0.005	ND	1	3/7/2022 14:26		3/15/2022
1004	Bromide	300.1	--	mg/L	0.005	ND	1	3/7/2022 14:26		3/15/2022
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	3/7/2022 14:26		3/21/2022 15:31
1017	Chloride	300.0	250	mg/L	1.0	ND	1	3/7/2022 14:26		3/8/2022 13:01
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	3/7/2022 14:26		3/21/2022 15:19
1008	Chlorine Dioxide as ClO2	4500ClO2D	0.8	mg/L	0.1	ND	1	3/7/2022 14:26		3/21/2022 15:42
1009	Chlorite	300.1	1.0	mg/L	0.005	ND	1	3/7/2022 14:26		3/15/2022
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	3/7/2022 14:26		3/8/2022 13:01
1040	Nitrate as N	300.0	10	mg/L	0.05	ND	1	3/7/2022 14:26		3/8/2022 13:01
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	3/7/2022 14:26		3/8/2022 13:01
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	1	3/7/2022 14:26		3/8/2022 13:01
1055	Sulfate	300.0	250	mg/L	5.0	ND	1	3/7/2022 14:26		3/8/2022 13:01
<b>Organic Analytes - Trihalomethanes</b>										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	0.0014	1	3/7/2022 14:26		3/7/2022
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	0.0078	1	3/7/2022 14:26		3/7/2022
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	0.0092	1	3/7/2022 14:26		3/7/2022

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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: 428813

4/12/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Organic Analytes - Haloacetic Acids</b>										
2454	Dibromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
2451	Dichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
2453	Monobromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
2450	Monochloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
2452	Trichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
2456	Total HAAs	552.2 HAAs 60		ug/L	1.0	ND	1	3/7/2022 14:26	3/11/2022	3/17/2022
<b>Organic Analytes - Volatiles</b>										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022

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## ANALYTICAL REPORTS

SAMPLE CODE: 428813

4/12/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2406	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	R2 1	3/7/2022 14:26		3/7/2022
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	3/7/2022 14:26		3/7/2022
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	3/7/2022 14:26		3/7/2022
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	3/7/2022 14:26		3/7/2022
Organic Analytes - Others										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	3/7/2022 14:26	3/10/2022	3/10/2022
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	3/7/2022 14:26	3/10/2022	3/10/2022
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2356	Aldrin	505	--	mg/L	0.00007	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2625	Bentazon	515.4	--	ug/L	1	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022

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## ANALYTICAL REPORTS

SAMPLE CODE: 428813

4/12/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2031	Dalapon	515.4	200	ug/L	1	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2440	Dicamba	515.4	--	ug/L	1	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2933	Dichloran	505	--	mg/L	0.001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2070	Dieldrin	505	--	mg/L	0.00002	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2032	Diquat	549.2	20	ug/L	0.4	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2033	Endothall	548.1	100	ug/L	9	ND	1	3/7/2022 14:26	3/13/2022	3/22/2022
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2034	Glyphosate	547	700	ug/L	6	ND	1	3/7/2022 14:26		3/15/2022
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2626	Molinate	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	3/7/2022 14:26		3/29/2022
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2040	Picloram	515.4	500	ug/L	0.1	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	3/7/2022 14:26	3/16/2022	3/29/2022
2037	Simazine	525.2	4	ug/L	0.1	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	3/7/2022 14:26	3/14/2022	3/30/2022
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022
2055	Trifluralin	505	--	mg/L	0.001	ND	1	3/7/2022 14:26	3/14/2022	3/14/2022

### Qualifiers:

R2: The laboratory is not licensed for this parameter. The reported result cannot be used for compliance purposes.

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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: 428813

4/12/2022

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



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

Christine MacMillan, Technical Director

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**ANALYTICAL REPORTS**

**SAMPLE CODE: 428812**

**3/11/2022**

**Customer:** Creekside Springs-PA  
Brooke Fazekas  
302 Merchant Street  
Ambridge, PA 15003

**Source:** Ambridge Water Authority  
**Source Type:** Municipal Water  
**Brand Name:** Purified Water (Drinking)  
**Production Code:** Best By 2/23/24  
**Container Size:** 1 Gallon  
**PA PWS ID#:** 5046492  
**PA Location:** EP 101

**Date/Time Received:** 2/28/2022 09:09

**Collected by:** B. Fazekas

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
<b>Microbiologicals</b>										
3114	E. Coli	9223B	1	MPN/100 mL	1	ND	1	3/7/2022 14:26		3/7/2022 16:20
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	3/7/2022 14:26		3/7/2022 16:20
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	3/7/2022 14:26		3/7/2022 16:20
Pour Plate Method, 35°C/72hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	3/7/2022 14:26		3/7/2022 16:20

Analyst	Tests
GK	9223B,9215B



Christine MacMillan, Technical Director

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Laboratory ID: NY:11467, PA:68-00362

**National Testing Laboratories, Ltd**  
556 South Mansfield, Ypsilanti, MI, 48197-5166  
(440) 449-2525, Fax: (440) 449-8585

## ANALYTICAL REPORTS

**SAMPLE CODE: 428814**

**3/23/2022**

**Customer:** Creekside Springs-PA  
Brooke Fazekas  
302 Merchant Street  
Ambridge, PA 15003

**Source:** Ambridge Water Authority  
**Source Type:** Municipal Water  
**Brand Name:** Purified Water (Drinking)  
**Production Code:** Best By 2/23/24  
**Container Size:** 1 Gallon  
**PA PWS ID#:** 5046492  
**PA Location:** EP 101

**Date/Time Received:** 2/28/2022 09:09

**Collected by:** B. Fazekas

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
<b>Microbiologicals</b>										
3100	Total Coliform by P/A	9223B	--	P/A	--	--	1	3/7/2022 14:26		3/7/2022 15:55
Total Coliform and E.coli were ABSENT in this sample.										
<b>USP XXIII</b>										
1003	Ammonia (as NH3)	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/14/2022
1016	Calcium	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/11/2022
1901	Carbon Dioxide (Free CO2)	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/11/2022
1017	Chloride	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/15/2022
	Heavy Metals (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/14/2022
	Oxidizables (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/14/2022
1925	pH	USP XXIII	--	pH Units		5.8	R2	1 3/7/2022 14:26		3/7/2022 16:00
1055	Sulfate	USP XXIII	--	Pass/Fail		Pass	R2	1 3/7/2022 14:26		3/11/2022
	Total Solids	USP XXIII	10	mg/L	10	ND	R2	1 3/7/2022 14:26		3/10/2022

### Qualifiers:

R2: The laboratory is not licensed for this parameter. The reported result cannot be used for compliance purposes.

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## ANALYTICAL REPORTS

SAMPLE CODE: 428814

3/23/2022

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

*Sarah Buchanan*

Analyst	Tests
GK	9223B
MG	USP XXIII
PC	USP XXIII
CF	USP XXIII

Sarah Buchanan, Project Manager

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**Report Prepared for:**

Susan Henderson  
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.

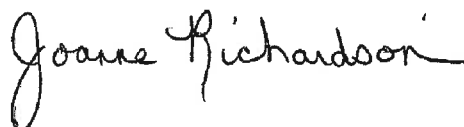
**Pace Project Number:**  
10600470

**Report Prepared Date:**  
March 22, 2022

**Finished Product**

Sample ID: 428813  
Source Name: Ambridge Water Authority  
Source Location: Ambridge, PA  
PWS ID: 5046492  
Date & Time Opened: 03/15/2022 @ 08:22  
Opened By: AS6  
Laboratory Sample ID: 10600470001  
Date Sampled: 03/15/2022 @ 08:22  
Date Received: 03/14/2022 @ 09:20

**This report has been reviewed by:**



March 22, 2022

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



**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- rimary	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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## 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
- I = Interference present
- 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
- \* = See Discussion

## REPORT OF LABORATORY ANALYSIS

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## CHAIN OF CUSTODY

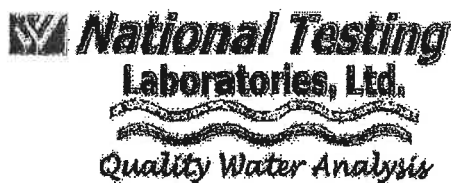
Page 1 of 1

Initiated by: ☒ Client ☐ National Testing Laboratories, Ltd. ☐ Other

[illegible]

COC-001 2/22/11

**See instructions on reverse side →**



1-800-458-3330

## Beverage - Finished Product

Order Number: 2188017

Order Date: 1/7/2022

428813

Sample Number:

Product: FDATABASE GDRX

Paid: No Method: Purchase Order

P.O.: Ambridge, PA

TSR: SBW

Ambridge

PA 15003

If finished product is submitted in laboratory containers, complete the following information.

Date Opened: \_\_\_/\_\_\_/\_\_\_ Time Opened: \_\_\_:\_\_\_:\_\_\_

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

Check Time Zone: ☐ EST ☐ CST ☐ MST ☐ PST

PWS ID# (if applicable):

5046492

Source Type: ☐ Spring

☐ Well

☒ Municipal

☐ Other:

Source Name: Ambridge Water Authority

(Source Information is REQUIRED for All Finished Products)

City & State:

Ambridge PA

(If Different than Above)

Product Collected By:

R

(Signature)

Product Collected By:

BROCK FARKAS

(Please Print)

Brand Name/Product Type:

Purified Water (Drinking)

e.g. XYZ Spring Water or XYZ Distilled Water

Container Size:

1 gallon

Production Code/Lot Number:

Best by 2/23/24

Form Completed By:

B FARKAS

Additional Comments:

### For Laboratory Use ONLY

#### Lab Accounting Information:

Payment \$: \_\_\_\_\_

Check #: \_\_\_\_\_

#### Lab Comments/Special Instructions:

2022 Purified Product

Bioxin

State Forms:

NY/PA

#### Lab Sample Information:

Date Received:

2/28/22

Time Received:

09:09

Received By:

AB

Date Opened:

1/1/

Time Opened:

:

Opened By:

☒

Sample receipt criteria checked & acceptable.

☐

Deviations from acceptable sample receipt criteria noted on PSA form.


IF PENNSYLVANIA REPORTING IS REQUIRED AND YOUR PRODUCT IS GREATER THAN 1.77 LITERS, PLEASE PROVIDE THE FOLLOWING:

Penn. PWS ID#: 5046492

Location: EP 101

Rev: SRT102120

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

	Document Name:	Document Revised: 06Jan2022
	Sample Condition Upon Receipt (SCUR)	Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.04	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>National Testing Labs</u>	Project #: <u>WO# 10600470</u>
Courier: <input type="checkbox"/> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client		PM: JMR Due Date: 03/23/22
<input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial		CLIENT: NTL
Tracking Number: <u>12 AIV 931 01 75110053</u>	See Exceptions <input type="checkbox"/>	
	ENV-FRM-MIN4-0142	

Custody Seal on Cooler/Box Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Packing Material: <input type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input checked="" type="checkbox"/> Other: <u>Styrofoam</u>		Temp Blank? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Thermometer: <input type="checkbox"/> T1(0461) <input type="checkbox"/> T2(1336) <input checked="" type="checkbox"/> T3(0459) <input type="checkbox"/> T4(0254)	Type of Ice: <input type="checkbox"/> Wet <input type="checkbox"/> Blue <input checked="" type="checkbox"/> None <input type="checkbox"/> Dry <input type="checkbox"/> Melted	
<input type="checkbox"/> T5(0489) <input type="checkbox"/> 01339252/1710 <input type="checkbox"/> 122639816 <input type="checkbox"/> 140792808		

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
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: _____ °C
Correction Factor: <u>-0.2</u>	Cooler Temp Corrected w/temp blank: _____ °C
	Average Corrected Temp (no temp blank only): <u>9.3</u> °C
	<input checked="" type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: ( <input checked="" type="checkbox"/> N/A, water sample/Other: _____)	Date/Initials of Person Examining Contents: <u>3/14/22 JS</u>
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.	

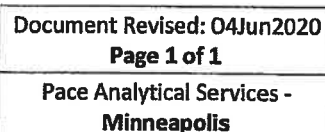
Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Sample #
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	pH Paper Lot#
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	See Exception ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Res. Chlorine
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	0-6 Roll
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	0-6 Strip
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	0-14 Strip
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception ENV-FRM-MIN4-0140
	14. Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION	
Person Contacted: _____	Date/Time: _____
Comments/Resolution: <u>Finished product temperature not applicable</u>	Field Data Required? <input type="checkbox"/> Yes <input type="checkbox"/> No

Project Manager Review: <u>Joanne Richardson</u>	Date: <u>3-18-22</u>
--	----------------------

Note: Whenever 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: 15 3

**Workorder #:** 10600470[illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	



Pace Analytical Services, LLC.  
1700 Elm Street  
Minneapolis, MN 55414

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

Tel 612-607-1700  
Fax 612-607-6444

Sample ID.....428813 Date Collected.....03/15/2022 Spike.....200 pg  
Client..... National Testing Laboratory Date Received.....03/14/2022 IS Spike.....2000 pg  
Lab Sample ID.....10600470001 Date Extracted.....03/15/2022 CS Spike.....200 pg

	Sample 428813	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	--	--	118%	117%
pg Recovered	--	--	236pg/L	235pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				0.5%
IS Recovery	80%	81%	63%	67%
pg Recovered	1595 pg/L	1612 pg/L	1266 pg/L	1341 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	97%	90%	95%	85%
pg Recovered	193 pg/L	179 pg/L	191 pg/L	170 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E220317B_21	E220317B_14	E220317B_07	E220317B_08
Analysis Date	03/17/2022	03/17/2022	03/17/2022	03/17/2022
Analysis Time	22:05	18:14	14:23	14:56
Analyst	MS4	MS4	MS4	MS4
Volume	0.987L	1.000L	1.000L	1.000L
Dilution	NA	NA	NA	NA
ICAL Date	11/30/2021	11/30/2021	11/30/2021	11/30/2021
CCAL Filename	E220317B_04	E220317B_04	E220317B_04	E220317B_04

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

Analyst: *Nichelle Spivey*

Project No.....10600470

## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2188017  
Pace Project No.: 30472472

**Sample: 428813**      **Lab ID: 30472472001**      Collected: 03/14/22 12:30      Received: 03/14/22 12:30      Matrix: Drinking Water  
PWS:      Site ID:      Sample Type:

Comments: • FINISHED PRODUCT, Ambridge Water Authority, Ambridge, PA  
• Purified Water (Drinking). 1 gallon, Best by 2/23/24  
• sampled opened on 3/14/22 @ 1230 by JBH  
• Sample collection dates and times were not present on the sample containers.  
• Upon receipt at the laboratory, 5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis. The samples were preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radon	SM 7500RnB-07	<b>12.3 ± 22.4 (38.2)</b> C:NA T:NA	pCi/L	03/15/22 23:46	10043-92-2	
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	<b>-0.280 ± 0.530 (1.81)</b> C:NA T:NA	pCi/L	03/25/22 08:11	12587-46-1	
Gross Beta	EPA 900.0	<b>1.30 ± 0.801 (1.54)</b> C:NA T:NA	pCi/L	03/25/22 08:11	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.000 ± 0.325 (0.704)</b> C:NA T:101%	pCi/L	04/06/22 16:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>0.247 ± 0.298 (0.635)</b> C:74% T:92%	pCi/L	04/07/22 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.247 ± 0.623 (1.34)</b>	pCi/L	04/10/22 18:06	7440-14-4	

## REPORT OF LABORATORY ANALYSIS

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



# EMSL Analytical, Inc.

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

EMSL Order ID: 042204978  
Customer ID: NTL178  
Customer PO: 14630  
Project ID:

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

Phone: (440) 449-2525  
Fax: (Ema) il -only  
Received: 03/09/2022  
Analyzed: 03/23/2022

Proj: 428813

## 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)				
428813 042204978-0001	3/9/2022 01:10 PM	100	1322	0.0780	None Detected	ND	0.17	<0.17	0.00 - 0.63

Collection Date/Time: 03/07/2022 14:26 PM

Bottle supplied by client

Analyst(s)

Ted Young (1)

*Samantha Rundstrom*

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 03/23/2022 14:38:19

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



## Client Sample Results

Client: National Testing Laboratories, Ltd  
Project/Site: 428963 428960 429056 428989 428813

Job ID: 810-17185-1

**Client Sample ID: 428813/2188017**

**Lab Sample ID: 810-17185-5**

**Date Collected: 03/07/22 14:26**

**Matrix: Bottled Water**

**Date Received: 03/09/22 09:15**

**PWSID Number: 5046492**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.050		0.050		ug/L			03/10/22 23:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.020		0.020		mg/L		03/11/22 06:52	03/11/22 09:40	1

## Client Sample Results

Client: National Testing Laboratories, Ltd  
Project/Site: 5046492

Job ID: 410-75264-1

**Client Sample ID: 428813 2188017**

**Lab Sample ID: 410-75264-1**

**Date Collected: 03/07/22 14:26**

**Matrix: Drinking Water**

**Date Received: 03/08/22 08:24**

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.12	0.040	mg/L			03/08/22 21:47	1



## ANALYTICAL REPORT

Lab Number:	L2212187
Client:	National Testing Laboratories, LTD 6571 Wilson Mills Rd. Cleveland, OH 44143
ATTN:	Susan Henderson
Phone:	(440) 449-2525
Project Name:	AMBRIDGE WATER AUTHORITY
Project Number:	5046492
Report Date:	03/16/22

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: AMBRIDGE WATER AUTHORITY

Project Number: 5046492

Lab Number: L2212187

Report Date: 03/16/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2212187-01	428815	DW	2188017	03/07/22 14:26	03/09/22
L2212187-02	428815-FIELD BLANK	DW	2188017	03/07/22 14:26	03/09/22

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Perfluorinated Alkyl Acids by EPA 537.1

The WG1615492-2 LCS recovery, associated with L2212187-01, is above the acceptance criteria for perfluoroundecanoic acid (pfuna) (135%), perfluorododecanoic acid (pfdoa) (137%), perfluorotridecanoic acid (pftdda) (139%) and perfluorotetradecanoic acid (pfta) (150%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

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

Authorized Signature:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 03/16/22

# ORGANICS

# SEMIVOLATILES

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

Serial\_No:03162217:13  
**Lab Number:** L2212187  
**Report Date:** 03/16/22

### SAMPLE RESULTS

**Lab ID:** L2212187-01  
**Client ID:** 428815  
**Sample Location:** 2188017

**Date Collected:** 03/07/22 14:26  
**Date Received:** 03/09/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Dw  
**Analytical Method:** 133,537.1  
**Analytical Date:** 03/15/22 22:28  
**Analyst:** LV

**Extraction Method:** EPA 537.1  
**Extraction Date:** 03/14/22 17:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.62	0.541	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.62	0.541	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	1.62	0.541	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.62	0.541	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.62	0.541	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	1.62	0.541	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.62	0.541	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.62	0.541	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.62	0.541	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.62	0.541	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	1.62	0.541	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.62	0.541	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.62	0.541	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.62	0.541	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.62	0.541	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	1.62	0.541	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/l	1.62	0.541	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.62	0.541	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	90		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	102		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	98		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106		70-130

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 133,537.1  
**Analytical Date:** 03/15/22 21:09  
**Analyst:** LV

**Extraction Method:** EPA 537.1  
**Extraction Date:** 03/14/22 17:21

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01 Batch: WG1615492-1					
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.668
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.668
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	2.00	0.668
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.668
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.668
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	2.00	0.668
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.668
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.668
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.668
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.668
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	2.00	0.668
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.668
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.668
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.668
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.668
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	2.00	0.668
Perfluorotridecanoic Acid (PFTriDA)	ND		ng/l	2.00	0.668
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.668

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	100		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	119		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	110		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	116		70-130

# Lab Control Sample Analysis Batch Quality Control

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1615492-2								
Perfluorobutanesulfonic Acid (PFBS)	105	-	-	-	70-130	-	-	30
Perfluorohexanoic Acid (PFHxA)	112	-	-	-	70-130	-	-	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	121	-	-	-	70-130	-	-	30
Perfluorooheptanoic Acid (PFHpA)	118	-	-	-	70-130	-	-	30
Perfluorohexanesulfonic Acid (PFHxS)	111	-	-	-	70-130	-	-	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	119	-	-	-	70-130	-	-	30
Perfluorooctanoic Acid (PFOA)	128	-	-	-	70-130	-	-	30
Perfluorononanoic Acid (PFNA)	122	-	-	-	70-130	-	-	30
Perfluorooctanesulfonic Acid (PFOS)	110	-	-	-	70-130	-	-	30
Perfluorodecanoic Acid (PFDA)	127	-	-	-	70-130	-	-	30
9-Chlorohexadecafluoro-3-Oxanon-1-Sulfonic Acid (9Cl-PF3ONS)	112	-	-	-	70-130	-	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	105	-	-	-	70-130	-	-	30
Perfluoroundecanoic Acid (PFUnA)	135	Q	-	-	70-130	-	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	129	-	-	-	70-130	-	-	30
Perfluorodecanoic Acid (PFDoA)	137	Q	-	-	70-130	-	-	30
11-Chloroeicosafluoro-3-Oxaundecan-1-Sulfonic Acid (11Cl-PF3OUdS)	116	-	-	-	70-130	-	-	30
Perfluorotridecanoic Acid (PFTriDA)	139	Q	-	-	70-130	-	-	30
Perfluorotetradecanoic Acid (PFTTA)	150	Q	-	-	70-130	-	-	30

# Lab Control Sample Analysis

Batch Quality Control

Project Name: AMBRIDGE WATER AUTHORITY

Lab Number: L2212187

Project Number: 5046492

Report Date: 03/16/22

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1615492-2

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]hexanoic Acid (13C-PFHxA)	105				70-130	
Tetrafluoro-2-heptafluoropropoxy-[ <sup>13</sup> C <sub>3</sub> ]-propanoic acid (13C <sub>3</sub> -HFPO-DA)	115				70-130	
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]decanoic Acid (13C-PFDA)	111				70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	112				70-130	

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MS Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1615492-3 QC Sample: L2212177-01 Client ID: MS Sample											
Perfluorobutanesulfonic Acid (PFBS)	ND	124	116	94		-	-		70-130	-	30
Perfluorohexanoic Acid (PFHxA)	ND	140	142	102		-	-		70-130	-	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	140	151	108		-	-		70-130	-	30
Perfluoroheptanoic Acid (PFHpA)	ND	140	151	108		-	-		70-130	-	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	128	124	97		-	-		70-130	-	30
4,8-Dioxo-3H-Perfluorononanoic Acid (ADONA)	ND	132	138	105		-	-		70-130	-	30
Perfluorooctanoic Acid (PFOA)	ND	140	159	114		-	-		70-130	-	30
Perfluorononanoic Acid (PFNA)	ND	140	160	115		-	-		70-130	-	30
Perfluorooctanesulfonic Acid (PFOS)	ND	130	122	94		-	-		70-130	-	30
Perfluorodecanoic Acid (PFDA)	ND	140	167	120		-	-		70-130	-	30
9-Chlorohexadecafluoro-3-Oxanon-1-Sulfonic Acid (9Cl-PF3ONS)	ND	130	124	95		-	-		70-130	-	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	140	136	97		-	-		70-130	-	30
Perfluoroundecanoic Acid (PFUnA)	ND	140	170	122		-	-		70-130	-	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	ND	140	158	113		-	-		70-130	-	30
Perfluorododecanoic Acid (PFDDoA)	ND	140	175	125		-	-		70-130	-	30
11-Chloroicosadecafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	132	128	97		-	-		70-130	-	30
Perfluorotridecanoic Acid (PFTTrDA)	ND	140	177	127		-	-		70-130	-	30
Perfluorotetradecanoic Acid (PFTTA)	ND	140	184	132		-	-		70-130	-	30

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Qual	Recovery Limits	RPD Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1615492-3 QC Sample: L2212177-01 Client ID: MS Sample										

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	109				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	105				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	108				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99				70-130

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** AMBRIDGE WATER AUTHORITY

**Lab Number:** L2212187

**Project Number:** 5046492

**Report Date:** 03/16/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG1615492-4	QC Sample: L2212183-01	Client ID: DUP			
Sample						
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/l	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
4,8-Dioxo-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/l	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
11-Chloroicosadecafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1615492-4	QC Sample: L2212183-01	Client ID: DUP		
Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	92		96		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	106		107		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	99		105		70-130
N-Deuteroethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	101		112		70-130

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information  
Cooler B Custody Seal Absent

Container Information		Cooler		Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2212187-01A	Plastic 250ml Trizma preserved	B	B	NA		4.5	Y	Absent		A2-537.1(14)
L2212187-01B	Plastic 250ml Trizma preserved	B	B	NA		4.5	Y	Absent		A2-537.1(14)
L2212187-02A	Plastic 250ml Trizma preserved	B	B	NA		4.5	Y	Absent		A2-L-EXT-537(14)

\*Values in parentheses indicate holding time in days



**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Serial\_No:** 03162217:13  
**Lab Number:** L2212187  
**Report Date:** 03/16/22

### PFAS PARAMETER SUMMARY

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

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

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## GLOSSARY

### Acronyms

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

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** AMBRIDGE WATER AUTHORITY**Lab Number:** L2212187**Project Number:** 5046492**Report Date:** 03/16/22**Footnotes**

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

**Terms**

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

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

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

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

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

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

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

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

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

**Data Qualifiers**

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** AMBRIDGE WATER AUTHORITY  
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**Data Qualifiers**

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

**Project Name:** AMBRIDGE WATER AUTHORITY  
**Project Number:** 5046492

**Lab Number:** L2212187  
**Report Date:** 03/16/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

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

### Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpeneol

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

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpeneol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

### Westborough Facility:

#### Drinking Water

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

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

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

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

#### Non-Potable Water

SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1:

Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E,

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

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

### Mansfield Facility:

#### Drinking Water

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

EPA 522, EPA 537.1.

#### Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

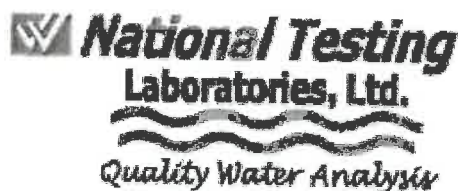
# CHAIN OF CUSTODY 2212187

Initiated by: ☐ Client ☒ National Testing Laboratories, Ltd. ☐ Other

Page 1 of 1

CLIENT COMMENTS:			COLLECTION		SAMPLE #	SAMPLE SITE DESCRIPTION	TYPES OF SAMPLES: DRINKING WATER = D SOIL SAMPLE = S GROUND WATER = G SLUDGE/WASTE = W POOL WATER = P OTHER TYPE = O	TEST(S) REQUESTED PER SAMPLE (X)
CLIENT/COMPANY NAME:		DATE	TIME					
		3/7/22	1426	428815	2188017			
RECEIVER SIGNATURE CONFIRMS THAT THE BOTTLES RECEIVED ARE CONSISTENT WITH THE REQUIRED TESTING PROTOCOL.		RELINQUISHED BY: (Signature)		DATE	TIME	LABORATORY COMMENTS:		
SAMPLED BY: (Signature)		RECEIVED BY: (Signature)		DATE	TIME			
SHIPPED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE	TIME			
RECEIVED BY: (Signature)		RECEIVED BY: (Signature)		DATE	TIME			
(1) [Signature]		(4) [Signature]		3/9/22	1500			
(2) [Signature]		(5) [Signature]		3/9/22	1500			
(3) [Signature]		(6) [Signature]		3/9/22	1623			
				3/9/22	1623			

See instructions on reverse side →



1-800-458-3330

## Beverage - Finished Product

Order Number: 2188017

Order Date: 1/7/2022

Sample Number:

428815

Product: PFAS 18

Paid: No Method: Purchase  
Order

P.O.: Ambridge, PA

TSR: SBW

Ambridge

PA 15003

If finished product is submitted in laboratory containers, complete the following information.

Date Opened: \_\_\_/\_\_\_/\_\_\_ Time Opened: \_\_\_:\_\_\_:\_\_\_

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

Check Time Zone: ☐ EST ☐ CST ☐ MST ☐ PST

PWS ID# (if applicable):

50410492

Source Type: ☐ Spring☐ Well☒ Municipal☐ Other:Source Name: Ambridge Water Authority

(Source information is REQUIRED for All Finished Products)

City & State: Ambridge PA

(If Different than Above)

Product Collected By:

B

(Signature)

Product Collected By:

Brooke Fizekas

(Please Print)

Brand Name/Product Type:

Purified water (Drinking)

e.g. XYZ Spring Water or XYZ Distilled Water

Container Size:

1 gallon

Production Code/Lot Number:

Prod by 2/23/24

Form Completed By:

B Fizekas

Additional Comments:

## For Laboratory Use ONLY

Lab Accounting Information:

Payment \$: \_\_\_\_\_

Check #: \_\_\_\_\_

Lab Comments/Special Instructions:

2022 Purified Product

State Forms:

NY|PA

Lab Sample Information:

Date Received: 2, 28, 22Time Received: 09:09Received By: CBDate Opened: 3, 7, 22Time Opened: 14:24Opened By: M. Miller☒ Sample receipt criteria checked & acceptable.☐ Deviations from acceptable sample receipt criteria noted on PSA form.IF PENNSYLVANIA REPORTING IS REQUIRED AND YOUR  
PRODUCT IS GREATER THAN 1.77 LITERS, PLEASE PROVIDE  
THE FOLLOWING:

Penn. PWS ID#: 5046492

Location: EP 101

Rev: SRT102120

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS



## NSF International

789 N. Dixboro Rd. Ann Arbor, MI 48105, USA  
1-800.NSF.MARK | +1-734.769.8010 | www.nsf.org

# TEST REPORT

**Send To: C0023226**

Ms. Susan Henderson  
National Testing Laboratories, Ltd.  
6571 Wilson Mills Road  
Cleveland, OH 44143

**Facility: C0023227**

National Testing Laboratories, Ltd.  
556 South Mansfield Street  
Ypsilanti MI 48197  
United States

Result	COMPLETE	Final Report Date	01-APR-2022
Customer Name	National Testing Laboratories, Ltd.		
Tested To	USFDA CFR Title 21 Part 165.110		
Description	Sample #428813   Order #2188017		
Test Type	Test Only		
Job Number	J-00432541		
Project Number	30055231 (CL11)		
Project Manager	Anna Baker		

**Thank you for having your product tested by NSF International.**

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

**Report Authorization** *Nancy F. Cole*  
Nancy Cole - Director, Analysis Laboratories

**Date** 01-APR-2022



### General Information

Standard: USFDA CFR Title 21 Part 165.110  
Collected by: B. Fazekas  
Date and Time Sampled: 03/07/2022 14:26 EST  
Product Description: Sample #428813 | Order #2188017  
Test Description: Phenolics

Sample Id: **S-0001895111**  
Description: Sample #428813 | Order #2188017 | 03/07/2022 14:26 EST  
Sampled Date: 03/07/2022  
Received Date: 03/28/2022

Testing Parameter	Reporting Limit	Result	FDA SOQ	Units	P / F
<b>Inorganic Chemicals</b>					
Phenolics	0.001	0.001	0.001	mg/L	Pass
<b>Miscellaneous</b>					



<<Additional Information>>

Sample Id: S-0001895111

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
<b>Inorganic Chemicals</b>			
* Phenolics, Total Recoverable (Based on EPA 420.4)	29-MAR-2022		
<b>Miscellaneous</b>			
*Source Water BQ Receipt Test Code			

# Testing Laboratories:

Flag	Id	Address
All work performed at: (Unless otherwise specified)	NSF_AA	NSF International 789 N. Dixboro Road Ann Arbor MI 48105

# References to Testing Procedures:

NSF Reference	Parameter / Test Description
C3021	* Phenolics, Total Recoverable (Based on EPA 420.4)

# Laboratory Certifications:

Arizona ( # AZ0655 )	California ( # 03214 CA )	Connecticut ( # PH-0625 )
Florida ( # E-87752 FL )	Hawaii	Indiana
Maryland ( # 201 )	Michigan ( # 0048 )	North Carolina ( # 26701 )
New Jersey ( # MI770 )	Nevada ( # MI000302010A )	New York ( # 11206 )
Pennsylvania ( # 68-00312 )	South Carolina ( # 81005 )	Virginia ( # 00045 )
Vermont ( # VT 11206 )		

Test descriptions preceded by an asterisk "\*" indicate that testing has been performed per NSF International requirements but is not within its 17025 scope of accreditation.

Unless otherwise indicated, method uncertainties are not applied in any determinations of conformity. Testing utilizes the requested sections of any referenced standards, which may not be the entire standard.

**Dates of Laboratory Activity: 07-MAR-2022 to 01-APR-2022**

The reported result for Total Recoverable Phenolics, Potassium, Molybdenum, Silica, Total Phosphorus, Radon, Sr-89/90, Bicarbonate, Bromochloroacetic Acid, Total Haloacetic acid, Bentazon, DCPA Acid Metabolites, EPTC, Dimethylphthalate, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene, Molinate, Diethylphthalate, Terbacil, Di-n-butylphthalate, p,p'-DDE (4,4'-DDE), Butylbenzylphthalate, Trichlorotrifluoroethane, Methyl Ethyl Ketone, 1,2,3-Trimethylbenzene, Epichlorohydrin, or 1,4-Dioxane if performed, cannot be used for compliance purposes within the State of Arizona. Certifications are not offered for these compounds in a drinking water matrix.

The reported results for Total Recoverable Phenolics, pH, Bicarbonate if performed, are not covered by New York State drinking water certifications. NSF is not certified for Chlorine Dioxide, Chloramines, Total Residual Chlorine, Bromochloroacetic Acid, Total Haloacetic acid, Bentazon, DCPA Acid Metabolites, EPTC, Dimethylphthalate, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene, Molinate, Diethylphthalate, Terbacil, Di-n-butylphthalate, p,p'-DDE (4,4'-DDE), Butylbenzylphthalate, Trichlorotrifluoroethane, Methyl Ethyl Ketone, 1,2,3-Trimethylbenzene, Epichlorohydrin, or 1,4-Dioxane in the State of New York.

# Notes:

- 1) Bottled water sold in the United States shall not contain Fluoride in excess of the levels published by the USFDA in 21 CFR Part 165.110. These levels are based on the annual average of maximum daily air temperatures at the location where the bottled water is sold at retail. Please refer to the most current edition of the regulation to determine the Fluoride maximum level that pertains to your product.
- 2) A blank on the FDA SOQ column indicates that no maximum level has been established by the FDA for that contaminant.
- 3) An ND result means that the contaminant was not detected at or above the reporting limit.

For a list of NSF International Method Detection Limits refer to

[https://d2evkimvhatqav.cloudfront.net/documents/external/minimum\\_detection\\_level\\_spreadsheet.pdf](https://d2evkimvhatqav.cloudfront.net/documents/external/minimum_detection_level_spreadsheet.pdf)