National Testing Laboratories, Ltd.
Quality Water Analysis

Corporate Headquarters
6571 Wilson Mills Road
Cleveland, Ohio 44143

Phone: 800-458-3330

This report package contains 48 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)
- 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, VA:00417

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 429309

4/22/2022

Customer: Central Carolina Bottling dba Grand Springs Dist.
Robert Smith
2140 Mt Carmel Rd.
Alton, VA 24520-3570

Source: Grand Springs #1
Source Type: Spring Water
Brand Name: Grand Springs RO
Production Code: 03102213 16:11 ZAT
Container Size: 5 Gallon

Date/Time Received: 3/14/2022 09:14
Collected by: R. Smith

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	3/21/2022 15:20		4/5/2022
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	3/21/2022 15:20		3/24/2022
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	3/21/2022 15:20		3/24/2022
1010	Barium	200.7	2	mg/L	0.10	ND	1	3/21/2022 15:20		4/5/2022
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	3/21/2022 15:20		4/5/2022
1079	Boron	200.7	--	mg/L	0.10	ND	1	3/21/2022 15:20		4/5/2022
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	3/21/2022 15:20		4/5/2022
1016	Calcium	200.7	--	mg/L	2.0	ND	1	3/21/2022 15:20		4/5/2022
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	3/21/2022 15:20		4/5/2022
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	3/21/2022 15:20		4/5/2022
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	3/21/2022 15:20		4/5/2022
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	3/21/2022 15:20		3/24/2022
1031	Magnesium	200.7	--	mg/L	0.10	0.17	1	3/21/2022 15:20		4/5/2022
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	3/21/2022 15:20		4/5/2022
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	3/21/2022 15:20		3/24/2022
1036	Nickel	200.7	--	mg/L	0.005	ND	1	3/21/2022 15:20		4/5/2022
1042	Potassium	200.7	--	mg/L	1.0	ND	1	3/21/2022 15:20		4/5/2022
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	3/21/2022 15:20		3/24/2022
1049	Silica	200.7	--	mg/L	0.05	2.60	1	3/21/2022 15:20		4/5/2022

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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	3/21/2022	15:20		4/5/2022	
1052	Sodium	200.7	--	mg/L	1	1		1	3/21/2022	15:20		4/5/2022	
1085	Thallium	200.8	0.002	mg/L	0.001	ND		1	3/21/2022	15:20		3/24/2022	
4009	Uranium	200.8	0.030	mg/L	0.001	ND		1	3/21/2022	15:20		3/24/2022	
1095	Zinc	200.7	5.000	mg/L	0.004	ND		1	3/21/2022	15:20		4/5/2022	
					Physical Factors								
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND		1	3/21/2022	15:20		3/22/2022	
1905	Apparent Color	2120B	15	CU	3	ND		1	3/21/2022	15:20		3/22/2022	09:00
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	ND		1	3/21/2022	15:20		3/22/2022	
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND		1	3/21/2022	15:20		3/22/2022	
1910	Corrosivity	2330B	--	SI		-4.66	R2	1	3/21/2022	15:20		4/5/2022	
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND		1	3/21/2022	15:20		3/22/2022	08:40
				MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole									
1915	Hardness	2340B	--	mg/L	5.0	ND		1	3/21/2022	15:20		4/5/2022	
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND		1	3/21/2022	15:20		3/22/2022	
1920	Odor Threshold	2150B	3	ton	1	ND		1	3/21/2022	15:20		3/21/2022	18:20
1925	pH	150.1	5-7	pH Units		5.9		1	3/21/2022	15:20		3/21/2022	16:53
4254	pH Temperature	150.1	--	Deg, C		21		1	3/21/2022	15:20		3/21/2022	16:53
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	11		1	3/21/2022	15:20		3/28/2022	
1930	Total Dissolved Solids	2540C	500	mg/L	5	ND		1	3/21/2022	15:20		3/24/2022	
0100	Turbidity	2130B	1	NTU	0.1	ND		1	3/21/2022	15:20		3/22/2022	12:30
					Inorganic Analytes - Other								
1011	Bromate	300.1	0.010	mg/L	0.005	ND		1	3/21/2022	15:20		3/30/2022	
1004	Bromide	300.1	--	mg/L	0.005	ND		1	3/21/2022	15:20		3/30/2022	
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND		1	3/21/2022	15:20		4/12/2022	14:49
1017	Chloride	300.0	250	mg/L	1.0	ND		1	3/21/2022	15:20		3/22/2022	13:36
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND		1	3/21/2022	15:20		4/12/2022	14:43
1008	Chlorine Dioxide as Cl02	4500Cl02D	0.8	mg/L	0.1	ND		1	3/21/2022	15:20		4/12/2022	09:48
1009	Chlorite	300.1	1.0	mg/L	0.005	ND		1	3/21/2022	15:20		3/30/2022	
1025	Fluoride	300.0	4.0	mg/L	0.10	ND		1	3/21/2022	15:20		3/22/2022	13:36
1040	Nitrate as N	300.0	10	mg/L	0.05	0.12		1	3/21/2022	15:20		3/22/2022	13:36
1041	Nitrite as N	300.0	1	mg/L	0.05	ND		1	3/21/2022	15:20		3/22/2022	13:36
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND		1	3/21/2022	15:20		3/22/2022	13:36
1055	Sulfate	300.0	250	mg/L	5.0	ND		1	3/21/2022	15:20		3/22/2022	13:36
					Organic Analytes - Trihalomethanes								
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022	
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022	
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022	

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2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
	Organic Analytes - Haloacetic Acids										
2454	Dibromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
2451	Dichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
2453	Monobromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
2450	Monochloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
2452	Trichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
2456	Total HAAs	552.2 HAAs	60	ug/L	1.0	ND	1	3/21/2022	15:20	3/23/2022	3/31/2022
	Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	3/21/2022	15:20		3/24/2022

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Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	R2	1	3/21/2022	15:20		3/24/2022
2248	Naphthalene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2997	o-Xylene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND		1	3/21/2022	15:20		3/24/2022
	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	3/21/2022	15:20		3/24/2022
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2996	Styrene	524.2	0.1	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2991	Toluene	524.2	1	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND		1	3/21/2022	15:20		3/24/2022
	Organic Analytes - Others											
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND		1	3/21/2022	15:20	4/1/2022	4/1/2022
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND		1	3/21/2022	15:20	4/1/2022	4/1/2022
2105	2,4-D	515.4	70	ug/L	0.1	ND		1	3/21/2022	15:20	3/22/2022	4/5/2022
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND		1	3/21/2022	15:20		4/1/2022
2051	Alachlor	525.2	2	ug/L	0.2	ND		1	3/21/2022	15:20	4/2/2022	4/20/2022
2047	Aldicarb	531.2	7	ug/L	1.0	ND		1	3/21/2022	15:20		4/1/2022
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND		1	3/21/2022	15:20		4/1/2022
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND		1	3/21/2022	15:20		4/1/2022
2356	Aldrin	505	--	mg/L	0.00007	ND		1	3/21/2022	15:20	3/28/2022	3/28/2022
2050	Atrazine	525.2	3	ug/L	0.1	ND		1	3/21/2022	15:20	4/2/2022	4/20/2022
2625	Bentazon	515.4	--	ug/L	1	ND		1	3/21/2022	15:20	3/22/2022	4/5/2022
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND		1	3/21/2022	15:20	4/2/2022	4/20/2022

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2076	Butachlor	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	3/21/2022	15:20		4/1/2022
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	3/21/2022	15:20		4/1/2022
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2031	Dalapon	515.4	200	ug/L	1	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2440	Dicamba	515.4	--	ug/L	1	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2933	Dichloran	505	--	mg/L	0.001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2070	Dieldrin	505	--	mg/L	0.00002	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2032	Diquat	549.2	20	ug/L	0.4	ND	1	3/21/2022	15:20	3/28/2022	4/7/2022
2033	Endothall	548.1	100	ug/L	9	ND	1	3/21/2022	15:20	3/28/2022	4/6/2022
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2034	Glyphosate	547	700	ug/L	6	ND	1	3/21/2022	15:20		3/23/2022
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	3/21/2022	15:20		4/1/2022
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2626	Molinate	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	3/21/2022	15:20		4/1/2022
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2040	Picloram	515.4	500	ug/L	0.1	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	3/21/2022	15:20	3/22/2022	4/5/2022
2037	Simazine	525.2	4	ug/L	0.1	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	3/21/2022	15:20	4/2/2022	4/20/2022
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022
2055	Trifluralin	505	--	mg/L	0.001	ND	1	3/21/2022	15:20	3/28/2022	3/28/2022

Qualifiers:

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

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

ANALYTICAL REPORTS

SAMPLE CODE: 429309

4/22/2022

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

Christine MacMillan, Technical Director

Analyst	Tests
ZSC	200.7,2330B,2340B,4500Cl-G,4500Cl02D
DMJ	200.8
SP	2320B,2120B,150.1,2510B,2130B
JF	5540C
PC	2150B
CF	2540C
SG	300.1,300.0
SB	524.2 THMs,524.2,531.2,549.2,547
RV	552.2 HAAs,504.1,515.4,505
JLF	525.2,548.1

Laboratory ID: NY:11467, VA:00417

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 429308

3/25/2022

Customer: Central Carolina Bottling dba Grand Springs Dist.
Robert Smith
2140 Mt Carmel Rd.
Alton, VA 24520-3570

Source: Grand Springs #1
Source Type: Spring Water
Brand Name: Grand Springs RO
Production Code: 03102213 16:11 ZAT
Container Size: 5 Gallon

Date/Time Received: 3/14/2022 09:14
Collected by: R. Smith

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	1	3/21/2022 15:20		3/21/2022 18:00
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	3/21/2022 15:20		3/21/2022 17:46
			Pour Plate Method, 35°C/48hr, Plate Count Agar							
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	3/21/2022 15:20		3/21/2022 17:46
			Pour Plate Method, 35°C/72hr, Plate Count Agar							
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	3/21/2022 15:20		3/21/2022 18:00

Analyst	Tests
GK	9223B,9215B

Christine MacMillan, Technical Director

Laboratory ID: NY:11467, VA:00417

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 429310

4/19/2022

Customer: Central Carolina Bottling dba Grand Springs Dist.
Robert Smith
2140 Mt Carmel Rd.
Alton, VA 24520-3570

Source: Grand Springs #1
Source Type: Spring Water
Brand Name: Grand Springs RO
Production Code: 03102213 16:11 ZAT
Container Size: 5 Gallon

Date/Time Received: 3/14/2022 09:14
Collected by: R. Smith

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					
3100	Total Coliform by P/A	9223B	--	P/A	--	--		1	3/21/2022 15:20		3/21/2022 17:38
	Total Coliform and E.coli were ABSENT in this sample.										
						USP XXIII					
1003	Ammonia (as NH3)	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/25/2022
1016	Calcium	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/24/2022
1901	Carbon Dioxide (Free CO2)	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/24/2022
1017	Chloride	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/24/2022
	Heavy Metals (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/25/2022
	Oxidizables (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/25/2022
1925	pH	USP XXIII	--	pH Units		5.9	R2	1	3/21/2022 15:20		3/21/2022 16:53
1055	Sulfate	USP XXIII	--	Pass/Fail		Pass	R2	1	3/21/2022 15:20		3/24/2022
	Total Solids	USP XXIII	10	mg/L	10	ND	R2	1	3/21/2022 15:20		4/6/2022

Qualifiers:

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

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

ANALYTICAL REPORTS

SAMPLE CODE: 429310

4/19/2022

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

Analyst	Tests
GK	9223B
JT	USP XXIII
SP	USP XXIII
CF	USP XXIII

Christine MacMillan, Technical Director

Pace Analytical™
www.pacelabs.com

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

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:
10601744

Report Prepared Date:
March 31, 2022

Finished Product

Sample ID: 429309
Source Name: Grand Springs #1
Source Location: Alton, VA
PWS ID: N/A
Date & Time Opened: N/A
Opened By:
Laboratory Sample ID: 10601744001
Date Sampled: 03/21/2022 @ 15:20
Date Received: 03/23/2022 @ 09:30

This report has been reviewed by:

Joanne Richardson

March 31, 2022
Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

NELAP ACCREDITED TNI LABORATORY

Report of Laboratory Analysis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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

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 = Interferencepresent

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

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

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

National Testing Laboratories, Ltd.
Quality Water Analysis

CHAIN OF CUSTODY

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

CLIENT/COMPANY NAME:

CLIENT COMMENTS:

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): Diox

SAMPLE #	COLLECTION DATE	COLLECTION TIME	SAMPLE SITE DESCRIPTION	SAMPLE TYPE	# OF CONTAINERS	Diox	LAB #
429309	3/21/22	1520	2187222	D	2	X	001

WO#: 10601744
10601744

RECEIVER SIGNATURE CONFIRMS THAT THE BOTTLES RECEIVED ARE CONSISTENT WITH THE REQUIRED TESTING PROTOCOL.

SAMPLED BY: (Signature) (1)	DATE	TIME	RELINQUISHED BY: (Signature) (4)	DATE	TIME
SHIPPED BY: (Signature) (2)	DATE 3/22/22	TIME 1600	RECEIVED BY: (Signature) (5)	DATE	TIME
RECEIVED BY: (Signature) (3) CSM/Pace	DATE 3-23-22	TIME 9:30	RELINQUISHED BY: (Signature) (6)	DATE	TIME
			RECEIVED BY: (Signature) (7)	DATE	TIME

LABORATORY COMMENTS:

COC-001 2/22/11

See instructions on reverse side →

National Testing Laboratories, Ltd.
Quality Water Analysis

1-800-458-3330

Beverage - Finished Product

Order Number: 2187222
Order Date: 12/27/2021 429309
Sample Number:
Product: FDABASE GDRX

Paid: No **Method:** Purchase Order **P.O.:** Alton, VA

TSR: SBW

Alton VA 24520-3570

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):

Source Type: ☑ Spring ☐ Well ☐ Municipal
☐ Other:

Source Name: Grand Springs #1
(Source Information is REQUIRED for All Finished Products)

City & State:
(If Different than Above)

Product Collected By: Robert A Smith
(Signature)

Product Collected By: Robert Smith
(Please Print)

Brand Name/Product Type: Grand Springs RO
e.g. XYZ Spring Water or XYZ Distilled Water

Container Size: 5 gallon

Production Code/Lot Number: 03102213 16:11 ZAT

Form Completed By: Robert Smith

Additional Comments:

For Laboratory Use ONLY

Lab Accounting Information:

Payment $:
Check #:

Lab Comments/Special Instructions:

2022 RO Product
Brown

State Forms:
NY

Lab Sample Information:

Date Received: 3/14/22
Time Received: 09:14
Received By: CB
Date Opened: 03/21/2022
Time Opened: 15:20
Opened By: C. Brown

☒ 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#:

Location:

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

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

Sample Condition Upon Receipt

Client Name: National Testing

Project #: WO#: 10601744 PM: JMR Due Date: 04/01/22 CLIENT: NTL

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 1ZA1V931017394295 3 See Exceptions ☐ 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 Wrap ☐ Bubble Bags ☒ None ☐ Other:_____ **Temp Blank?** ☐ Yes ☒ No

Thermometer: ☐ T1(0461) ☒ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:**_____ °C

Correction Factor: True **Cooler Temp Corrected w/temp blank:**_____ °C

Average Corrected Temp (no temp blank only): 3.8 °C ☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☒ N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** CSM 3-23-22

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)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ 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): ☐ Duluth ☒ Minneapolis ☐ Virginia				**COMMENTS:**
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC? CSM 3-23-22	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other_____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other-	☒ Yes	☐ No		11. If no, write ID/ Date/Time on Container Below: See Exception ☐ ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No pH Paper Lot# See Exception ☐ ENV-FRM-MIN4-0142
				Res. Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. See Exception ☐ ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager Review: Jamie Richardson **Date:** 3-23-22

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: CSM (1)

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) Exception Form**	Document Revised: 04Jun2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0142 Rev.01**	Pace Analytical Services - **Minneapolis**

SCUR Exceptions:

Workorder #: 10601744

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
4.5	4.5	3.8
4.6	4.6	
2.7	2.7	
3.2	3.2	

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

PaceAnalyticalServices,LLC.
1700ElmStreet
Minneapolis,MN,55414

Tel612-607-1700
Fax612-607-6444

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

Sample ID.....429309 Date Collected.....03/21/2022 Spike.....200 pg
Client..... National Testing Laborato Date Received.....03/23/2022 IS Spike.....2000 pg
Lab Sample ID.....10601744001 Date Extracted.....03/24/2022 CS Spike.....200 pg

	Sample 429309	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	--	--	131%	133%
pg Recovered	--	--	262pg/L	265pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			1.1%	
IS Recovery	**80%**	82%	76%	67%
pg Recovered	1608 pg/L	1650 pg/L	1514 pg/L	1332 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**84%**	89%	92%	87%
pg Recovered	167 pg/L	178 pg/L	184 pg/L	174 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E220327A_18	E220326B_07	E220326B_05	E220326B_06
Analysis Date	03/27/2022	03/27/2022	03/26/2022	03/26/2022
Analysis Time	18:40	00:00	22:54	23:27
Analyst	JRH	JRH	JRH	JRH
Volume	0.926L	0.981L	0.996L	0.990L
Dilution	NA	NA	NA	NA
ICAL Date	11/30/2021	11/30/2021	11/30/2021	11/30/2021
CCAL Filename	E220327A_02	E220326B_02	E220326B_02	E220326B_02

! = Outside the Control Limits
ND = Not Detected
LOQ = Limit of Quantitation
Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
RPD = Relative Percent Difference of Lab Spike Recoveries
IS = Internal Standard [2,3,7,8-TCDD-$^{13}C_{12}$]
CS = Cleanup Standard [2,3,7,8-TCDD-$^{37}Cl_4$]

Analyst: Jessica Hedin

Project No.....10601744

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2187222
Pace Project No.: 30475076

Sample: 429309 **Lab ID: 30475076001** Collected: 03/21/22 15:20 Received: 03/23/22 09:40 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments:
- FINISHED WATER, Grand Springs #1, Alton VA
- Grand Springs RO, Cont. size: 5 gallon, Prod. code: 0310221316:11ZAT
- sample opened 03/21/22 #15:20 by C. Brown
- 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. 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	**38.1 ± 41.6 (69.4)** **C:NA T:NA**	pCi/L	03/25/22 19:53	10043-92-2	
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**-0.154 ± 0.589 (1.82)** **C:NA T:NA**	pCi/L	04/05/22 07:51	12587-46-1	
Gross Beta	EPA 900.0	**-0.204 ± 0.563 (1.52)** **C:NA T:NA**	pCi/L	04/05/22 07:51	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0644 ± 0.334 (0.693)** **C:NA T:95%**	pCi/L	04/11/22 11:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.114 ± 0.291 (0.721)** **C:71% T:85%**	pCi/L	04/12/22 15:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0644 ± 0.625 (1.41)**	pCi/L	04/14/22 06:32	7440-14-4	

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

EMSL Order ID:	042206167
Customer ID:	NTLI78
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:	03/23/2022
Analyzed:	04/06/2022

Proj: 2187222

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)		
429309 042206167-0001	3/23/2022 12:45 PM	100	1322	0.0768	None Detected	ND	0.17	<0.17	0.00 - 0.64

Collection Date/Time:

Sample bottle supplied by client.

Analyst(s)
Wayne Froehlich (1)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 04/06/2022 21:56:14

Client Sample Results

Client: National Testing Laboratories, Ltd
Project/Site: 429303,429306,429309,429607,429610

Job ID: 810-18659-1

Client Sample ID: 429309/2187222

Date Collected: 03/21/22 15:20
Date Received: 03/23/22 09:45

Lab Sample ID: 810-18659-3

Matrix: Bottled Water

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			03/23/22 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.020		0.020		mg/L		04/01/22 09:18	04/01/22 13:03	1

ANALYTICAL REPORT

Lab Number:	L2214928
Client:	National Testing Laboratories, LTD 6571 Wilson Mills Rd. Cleveland, OH 44143
ATTN:	Susan Henderson
Phone:	(440) 449-2525
Project Name:	GRAND SPRINGS #1
Project Number:	Not Specified
Report Date:	04/06/22

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).

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

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2214928-01	429311	DW	2187222	03/21/22 15:20	03/23/22
L2214928-02	429311- FIELD BLANK	DW	2187222	03/21/22 15:20	03/23/22

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

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: GRAND SPRINGS #1 **Lab Number:** L2214928
Project Number: Not Specified **Report Date:** 04/06/22

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.

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: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 04/06/22

ORGANICS

SEMIVOLATILES

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2214928-01
Client ID: 429311
Sample Location: 2187222

Date Collected: 03/21/22 15:20
Date Received: 03/23/22
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 03/31/22 10:51
Analyst: AC

Extraction Method: EPA 537.1
Extraction Date: 03/30/22 20:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.629	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.88	0.629	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	1.88	0.629	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.629	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.629	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	1.88	0.629	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.88	0.629	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.629	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.88	0.629	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.629	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	1.88	0.629	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.629	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.629	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.629	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.629	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	1.88	0.629	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.629	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.629	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	101		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	93		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		70-130

Project Name: GRAND SPRINGS #1 **Lab Number:** L2214928
Project Number: Not Specified **Report Date:** 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 03/31/22 08:20
Analyst: AC

Extraction Method: EPA 537.1
Extraction Date: 03/30/22 21:06

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01 Batch: WG1621645-1					
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 (PFTrDA)	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)	98		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	102		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	93		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1621645-2								
Perfluorobutanesulfonic Acid (PFBS)	104		-		70-130	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		70-130	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	95		-		70-130	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		70-130	-		30
Perfluorohexanesulfonic Acid (PFHxS)	107		-		70-130	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	98		-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	99		-		70-130	-		30
Perfluorononanoic Acid (PFNA)	100		-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	101		-		70-130	-		30
Perfluorodecanoic Acid (PFDA)	88		-		70-130	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	118		-		70-130	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		-		70-130	-		30
Perfluoroundecanoic Acid (PFUnA)	100		-		70-130	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		-		70-130	-		30
Perfluorododecanoic Acid (PFDoA)	95		-		70-130	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	118		-		70-130	-		30
Perfluorotridecanoic Acid (PFTrDA)	96		-		70-130	-		30
Perfluorotetradecanoic Acid (PFTA)	95		-		70-130	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GRAND SPRINGS #1

Project Number: Not Specified

Lab Number: L2214928

Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1621645-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	94				70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	100				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	89				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	100				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: GRAND SPRINGS #1

Project Number: Not Specified

Lab Number: L2214928

Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1621645-3 QC Sample: L2214717-01 Client ID: MS Sample												
Perfluorobutanesulfonic Acid (PFBS)	5.09	133	160	116		-	-		70-130	-		30
Perfluorohexanoic Acid (PFHxA)	8.07	150	165	105		-	-		70-130	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	150	149	99		-	-		70-130	-		30
Perfluoroheptanoic Acid (PFHpA)	2.39	150	162	106		-	-		70-130	-		30
Perfluorohexanesulfonic Acid (PFHxS)	1.12J	137	151	110		-	-		70-130	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	142	144	102		-	-		70-130	-		30
Perfluorooctanoic Acid (PFOA)	5.44	150	158	102		-	-		70-130	-		30
Perfluorononanoic Acid (PFNA)	ND	150	148	99		-	-		70-130	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	139	142	102		-	-		70-130	-		30
Perfluorodecanoic Acid (PFDA)	ND	150	152	101		-	-		70-130	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	140	152	109		-	-		70-130	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	150	159	106		-	-		70-130	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	150	148	99		-	-		70-130	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	150	173	115		-	-		70-130	-		30
Perfluorododecanoic Acid (PFDoA)	ND	150	136	91		-	-		70-130	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	142	147	104		-	-		70-130	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	150	135	90		-	-		70-130	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	150	139	93		-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: GRAND SPRINGS #1

Project Number: Not Specified

Lab Number: L2214928

Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab	Associated sample(s): 01	QC Batch ID: WG1621645-3	QC Sample: L2214717-01	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)	99				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	103				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	92				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	99				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

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: WG1621645-4 QC Sample: L2214727-01 Client ID: DUP Sample						
Perfluorobutanesulfonic Acid (PFBS)	4.27	3.98	ng/l	7		30
Perfluorohexanoic Acid (PFHxA)	33.4	33.3	ng/l	0		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)	6.29	6.07	ng/l	4		30
Perfluorohexanesulfonic Acid (PFHxS)	1.25J	1.12J	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	11.4	11.3	ng/l	1		30
Perfluorononanoic Acid (PFNA)	0.810J	0.832J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	2.72	2.60	ng/l	5		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-Chloroeicosafluoro-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: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

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: WG1621645-4 QC Sample: L2214727-01 Client ID: DUP Sample						

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	95		97		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	87		86		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	83		82		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		80		70-130

Project Name: GRAND SPRINGS #1
Project Number: Not Specified

Lab Number: L2214928
Report Date: 04/06/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2214928-01A	Plastic 250ml Trizma preserved	A	NA		4.5	Y	Absent		A2-537.1(14)
L2214928-01B	Plastic 250ml Trizma preserved	A	NA		4.5	Y	Absent		A2-537.1(14)
L2214928-02A	Plastic 250ml Trizma preserved	A	NA		4.5	Y	Absent		A2-L-EXT-537(14)

*Values in parentheses indicate holding time in days

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	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
FLUOROTELOMERS		
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
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: GRAND SPRINGS #1 **Lab Number:** L2214928

Project Number: Not Specified **Report Date:** 04/06/22

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:	GRAND SPRINGS #1	**Lab Number:**	L2214928
Project Number:	Not Specified	**Report Date:**	04/06/22

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:	GRAND SPRINGS #1	**Lab Number:**	L2214928
Project Number:	Not Specified	**Report Date:**	04/06/22

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.)

Report Format: DU Report with 'J' Qualifiers

Project Name: GRAND SPRINGS #1 **Lab Number:** L2214928
Project Number: Not Specified **Report Date:** 04/06/22

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-Terpineol
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-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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, SM4500Cl-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.

National Testing Laboratories, Ltd.
Quality Water Analysis

3/23/22 L221492B

CHAIN OF CUSTODY

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

CLIENT/COMPANY NAME:

CLIENT COMMENTS:

TYPES OF SAMPLES:
DRINKING WATER = D SOIL SAMPLE = S
GROUND WATER = G SLUDGE/WASTE = W
POOL WATER = P OTHER TYPE = O

SAMPLE #	COLLECTION DATE	COLLECTION TIME	SAMPLE SITE DESCRIPTION	SAMPLE TYPE	# OF CONTAINERS	PFAS (18 w/blanks if needed)		LAB #
429311	3/21/22	1520	2187222	D	4	X	X	

RECEIVER SIGNATURE CONFIRMS THAT THE BOTTLES RECEIVED ARE CONSISTENT WITH THE REQUIRED TESTING PROTOCOL.

SAMPLED BY: (Signature) (1)	DATE	TIME	RELINQUISHED BY: (Signature) (4)	DATE 3-23-22	TIME 15:00
SHIPPED BY: (Signature) (2)	DATE 3/22/22	TIME 1600	RECEIVED BY: (Signature) (5) Joseph C. Bugajski	DATE 3/23/22	TIME 1500
RECEIVED BY: (Signature) (3)	DATE 3/23/22	TIME 1020	RELINQUISHED BY: (Signature) (6) Joseph C. Bugajski	DATE 3/23/22	TIME 1608
			RECEIVED BY: (Signature) (7)	DATE 3/23/22	TIME 1608

LABORATORY COMMENTS:

COC-001 2/22/11

See instructions on reverse side →

National Testing Laboratories, Ltd.

Quality Water Analysis

1-800-458-3330

Beverage - Finished Product

Order Number: 2187222
Order Date: 12/27/2021
Sample Number: 429311
Product: PFAS 18

Paid: No **Method:** Purchase Order **P.O.:** Alton, VA

TSR: SBW

Alton VA 24520-3570

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):

Source Type: ☒ Spring ☐ Well ☐ Municipal ☐ Other:

Source Name: GRAND SPRINGS #1
(Source Information is REQUIRED for All Finished Products)

City & State:
(If Different than Above)

Product Collected By: [signature]
(Signature)

Product Collected By: ROBERT SMITH
(Please Print)

Brand Name/Product Type: GRAND SPRINGS RO
e.g. XYZ Spring Water or XYZ Distilled Water

Container Size: 5 GALLON

Production Code/Lot Number: 03102213 16:11 ZAI

Form Completed By: [signature]

Additional Comments:

For Laboratory Use ONLY

Lab Accounting Information:

Payment $:

Check #:

Lab Comments/Special Instructions:

2022 RO Product

State Forms:

NY

Lab Sample Information:

Date Received: 3/14/22

Time Received: 09:14

Received By: CB

Date Opened: 03/21/2022

Time Opened: 15:20

Opened By: C. Brown

☒ 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#:

Location:

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**	26-APR-2022
Customer Name	National Testing Laboratories, Ltd.		
Tested To	USFDA CFR Title 21 Part 165.110		
Description	Sample # 429309 | Order # 2187222		
Test Type	Source Water		
Job Number	J-00433447		
Project Number	30056443 (CL03)		
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 **Date** 26-APR-2022

Nancy Cole - Director, Analysis Laboratories

General Information

Standard: USFDA CFR Title 21 Part 165.110
Collected by: R. Smith
Date and Time Sampled: 03/21/2022 15:20 EDT
Product Description: Sample # 429309 | Order # 2187222
Test Description: Phenolics

Sample Id: **S-0001897993**
Description: Sample # 429309 | Order # 2187222 - 03/21/2022 15:20 EDT
Sampled Date: 03/21/2022
Received Date: 04/06/2022

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

<<Additional Information>>

Sample Id: S-0001897993

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
Inorganic Chemicals			
* Phenolics, Total Recoverable (Based on EPA 420.4)	12-APR-2022		
Miscellaneous			
*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: 06-APR-2022 to 26-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 and Temperature, 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