National Testing Laboratories, Ltd.
Quality Water Analysis

Corporate Headquarters
6571 Wilson Mills Road
Cleveland, Ohio 44143

Phone: 800-458-3330

This report package contains 41 pages.

This package contains reports from the following laboratories:

- National Testing Laboratories, Ltd. (9 pages)
- Pace Analytical Services, Inc.- Minneapolis, MN (5 pages)
- Pace Analytical Services, Inc.-Greensburg, PA (1 page)
- Eurofins Eaton Analytical, Inc. (1 page)
- Alpha Analytical (24 pages)

NELAP accredited #E87753

Laboratory ID: 170055,200084

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

ANALYTICAL REPORTS

SAMPLE CODE: 439083

3/29/2023

Customer: Puritan Springs Water Co
Shawn Gray
1709 N Kickapoo
Lincoln, IL 62656

Source: Mahomet Aquifer
Source Type: Well Water
Brand Name: Distilled Water
Production Code: 111522 DI / 121522 DI
Container Size: 1 Gallon

Date/Time Received: 11/17/2022 09:00
Collected by: S. Gray/M. Harvey

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:

Production Code# 121522DI used for NTL analyses.
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.

Additional water (1 gallon bottles) received 2/14/23 at 09:38 AM, for various analyses.

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	2/20/2023	11:20		3/21/2023
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	2/20/2023	11:20		3/20/2023
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	2/20/2023	11:20		3/20/2023
1010	Barium	200.7	2	mg/L	0.10	ND	1	2/20/2023	11:20		3/21/2023
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	2/20/2023	11:20		3/21/2023
1079	Boron	200.7	--	mg/L	0.10	ND	1	2/20/2023	11:20		3/21/2023
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	2/20/2023	11:20		3/21/2023
1016	Calcium	200.7	--	mg/L	2.0	ND	1	2/20/2023	11:20		3/21/2023
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	2/20/2023	11:20		3/21/2023
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	2/20/2023	11:20		3/21/2023
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	2/20/2023	11:20		3/21/2023
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	2/20/2023	11:20		3/20/2023
1031	Magnesium	200.7	--	mg/L	0.10	ND	1	2/20/2023	11:20		3/21/2023
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	2/20/2023	11:20		3/21/2023
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	2/20/2023	11:20		3/20/2023
1036	Nickel	200.7	--	mg/L	0.005	ND	1	2/20/2023	11:20		3/21/2023
1042	Potassium	200.7	--	mg/L	1.0	ND	1	2/20/2023	11:20		3/21/2023

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Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
1045	Selenium	200.8	0.05	mg/L	0.002	ND		1	2/20/2023	11:20		3/20/2023	
1049	Silica	200.7	--	mg/L	0.05	ND		1	2/20/2023	11:20		3/21/2023	
1050	Silver	200.7	0.10	mg/L	0.002	ND		1	2/20/2023	11:20		3/21/2023	
1052	Sodium	200.7	--	mg/L	1	ND		1	2/20/2023	11:20		3/21/2023	
1085	Thallium	200.8	0.002	mg/L	0.001	ND		1	2/20/2023	11:20		3/20/2023	
4009	Uranium	200.8	0.030	mg/L	0.001	ND		1	2/20/2023	11:20		3/20/2023	
1095	Zinc	200.7	5.000	mg/L	0.004	ND		1	2/20/2023	11:20		3/21/2023	
	Physical Factors												
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND		1	2/20/2023	11:20		2/24/2023	
1905	Apparent Color	2120B	15	CU	3	ND		1	2/20/2023	11:20		2/20/2023	14:50
1910	Corrosivity	2330B	--	SI		-5.75	R2	1	2/20/2023	11:20		3/20/2023	
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND		1	2/20/2023	11:20		2/20/2023	15:25
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
1915	Hardness	2340B	--	mg/L	5.0	ND		1	2/20/2023	11:20		3/21/2022	
1920	Odor Threshold	2150B	3	ton	1	ND		1	2/20/2023	11:20		2/20/2023	13:45
1925	pH	150.1	5-7	pH Units		5.6		1	2/20/2023	11:20		2/20/2023	14:10
4254	pH Temperature	150.1	--	Deg, C		25		1	2/20/2023	11:20		2/20/2023	14:10
1930	Total Dissolved Solids	2540C	500	mg/L	5	ND		1	2/20/2023	11:20		2/24/2023	
0100	Turbidity	2130B	1	NTU	0.1	ND		1	2/20/2023	11:20		2/20/2023	14:25
	Inorganic Analytes - Other												
1011	Bromate	300.1	0.010	mg/L	0.005	ND		1	2/20/2023	11:20		2/27/2023	
1004	Bromide	300.1	--	mg/L	0.005	ND		1	2/20/2023	11:20		2/27/2023	
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	J6	1	2/20/2023	11:20		2/20/2023	16:37
1017	Chloride	300.0	250	mg/L	1.0	ND		1	2/20/2023	11:20		2/21/2023	11:16
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	J6	1	2/20/2023	11:20		2/20/2023	16:34
1008	Chlorine Dioxide as Cl02	4500Cl02D	0.8	mg/L	0.1	ND		1	2/20/2023	11:20		2/20/2023	16:37
1009	Chlorite	300.1	1.0	mg/L	0.005	ND		1	2/20/2023	11:20		2/27/2023	
1025	Fluoride	300.0	4.0	mg/L	0.10	ND		1	2/20/2023	11:20		2/21/2023	11:16
1040	Nitrate as N	300.0	10	mg/L	0.05	ND		1	2/20/2023	11:20		2/21/2023	11:16
1041	Nitrite as N	300.0	1	mg/L	0.05	ND		1	2/20/2023	11:20		2/21/2023	11:16
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND		1	2/20/2023	11:20		2/21/2023	11:16
1055	Sulfate	300.0	250	mg/L	5.0	ND		1	2/20/2023	11:20		2/21/2023	11:16
	Organic Analytes - Trihalomethanes												
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023	
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023	
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023	
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023	
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023	

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Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
					Organic Analytes - Haloacetic Acids						
2454	Dibromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
2451	Dichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
2453	Monobromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
2450	Monochloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
2452	Trichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
2456	Total HAAs	552.2 HAAs	60	ug/L	1.0	ND	1	2/20/2023	11:20	2/28/2023	3/1/2023
					Organic Analytes - Volatiles						
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	2/20/2023	11:20		2/21/2023

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Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	R2	1	2/20/2023	11:20		2/21/2023
2248	Naphthalene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2997	o-Xylene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND		1	2/20/2023	11:20		2/21/2023
	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	2/20/2023	11:20		2/21/2023
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2996	Styrene	524.2	0.1	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2991	Toluene	524.2	1	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND		1	2/20/2023	11:20		2/21/2023
	Organic Analytes - Others											
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND		1	2/20/2023	11:20	3/2/2023	3/2/2023
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND		1	2/20/2023	11:20	3/2/2023	3/2/2023
2105	2,4-D	515.4	70	ug/L	0.1	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2051	Alachlor	525.2	2	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2047	Aldicarb	531.2	7	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2356	Aldrin	505	--	mg/L	0.00007	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2050	Atrazine	525.2	3	ug/L	0.1	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2625	Bentazon	515.4	--	ug/L	1	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.02	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2076	Butachlor	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2021	Carbaryl	531.2	--	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023

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2046	Carbofuran	531.2	40	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2959	Chlordane	505	0.002	mg/L	0.0001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2031	Dalapon	515.4	200	ug/L	1	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2440	Dicamba	515.4	--	ug/L	1	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2933	Dichloran	505	--	mg/L	0.001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2070	Dieldrin	505	--	mg/L	0.00002	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2041	Dinoseb	515.4	7	ug/L	0.2	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2032	Diquat	549.2	20	ug/L	0.4	ND		1	2/20/2023	11:20	2/21/2023	2/24/2023
2033	Endothall	548.1	100	ug/L	9	ND		1	2/20/2023	11:20	2/27/2023	3/10/2023
2005	Endrin	505	0.002	mg/L	0.00001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2034	Glyphosate	547	700	ug/L	6	ND		1	2/20/2023	11:20		2/23/2023
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2010	Lindane	505	0.0002	mg/L	0.00002	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2022	Methomyl	531.2	--	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2045	Metolachlor	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2595	Metribuzin	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2626	Molinate	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2036	Oxamyl	531.2	200	ug/L	1.0	ND		1	2/20/2023	11:20		3/6/2023
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2040	Picloram	515.4	500	ug/L	0.1	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2077	Propachlor	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND		1	2/20/2023	11:20	2/24/2023	3/2/2023
2037	Simazine	525.2	4	ug/L	0.07	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2627	Thiobencarb	525.2	--	ug/L	0.2	ND		1	2/20/2023	11:20	2/23/2023	3/20/2023
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2	1	2/20/2023	11:20		2/22/2023
2020	Toxaphene	505	0.003	mg/L	0.001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023
2055	Trifluralin	505	--	mg/L	0.001	ND		1	2/20/2023	11:20	2/27/2023	2/27/2023

Qualifiers:

R2: The laboratory is not licensed for this parameter. The reported result cannot be used for compliance purposes.
J6: Estimated value, the laboratory fortified matrix recovery was below the method acceptance limits. Sample matrix interference suspected.

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

ANALYTICAL REPORTS

SAMPLE CODE: 439083

3/29/2023

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
DMJ	200.8
SP	2320B,2120B,5540C,2150B,150.1,2130B
CF	2540C
SG	300.1,300.0
DHG	4500Cl-G,4500ClO2D,420.4
SB	524.2 THMs,552.2 HAAs,524.2,515.4,531.2,549.2,547
BNF	504.1,505
JLF	525.2,548.1

Laboratory ID: 170055,200084

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

ANALYTICAL REPORTS

SAMPLE CODE: 439084

3/29/2023

Customer: Puritan Springs Water Co
Shawn Gray
1709 N Kickapoo
Lincoln, IL 62656

Source: Mahomet Aquifer
Source Type: Well Water
Brand Name: Distilled Water
Production Code: 121522 DI
Container Size: 1 Gallon

Date/Time Received: 11/17/2022 09:50
Collected by: S. Gray

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:

Additional water (1 gallon bottles) received 2/14/23 at 09:38 AM, for various analyses.

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	2/20/2023	11:20		2/20/2023	14:24
						Total Coliform and E.coli were ABSENT in this sample.							
						USP XXIII							
1003	Ammonia (as NH3)	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/6/2023	
1016	Calcium	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/3/2023	
1901	Carbon Dioxide (Free CO2)	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/6/2023	
1017	Chloride	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/7/2023	
	Heavy Metals (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/8/2023	
	Oxidizables (USP)	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/7/2023	
1925	pH	USP XXIII	--	pH Units		5.6	R2	1	2/20/2023	11:20		2/20/2023	14:10
1055	Sulfate	USP XXIII	--	Pass/Fail		Pass	R2	1	2/20/2023	11:20		3/3/2023	
	Total Solids	USP XXIII	10	mg/L	10	ND	R2	1	2/20/2023	11:20		3/1/2023	

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: 439084

3/29/2023

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

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

Sarah Buchanan

Sarah Buchanan, Project Manager

Laboratory ID: 170055,200084

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

ANALYTICAL REPORTS

SAMPLE CODE: 439082

3/29/2023

Customer: Puritan Springs Water Co
Shawn Gray
1709 N Kickapoo
Lincoln, IL 62656

Source: Mahomet Aquifer
Source Type: Well Water
Brand Name: Puritan Springs Distilled Water
Production Code: 121522 DI
Container Size: 1 Gallon

Date/Time Received: 11/17/2022 09:50
Collected by: M. Harvey

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:

Additional water (1 gallon bottles) received 2/14/23 at 09:38 AM, for various analyses.

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	2/20/2023 11:20		2/20/2023 16:20
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	2/20/2023 11:20		2/20/2023 15:49
				Pour Plate Method, 35°C/48hr, Plate Count Agar						
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	2/20/2023 11:20		2/20/2023 16:20

Analyst	Tests
GK	9223B,9215B

Sarah Buchanan

Sarah Buchanan, Project Manager

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:

Christian Schmidt
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:
10640724

Report Prepared Date:
January 31, 2023

Finished Product

Sample ID: 439083
Source Name: Mahomet Aquifer
Source Location: Lincoln, IL
PWS ID: N/A
Date & Time Opened: 01/25/2023 @ 08:39
Opened By: AS6
Laboratory Sample ID: 10640724001
Date Sampled: 01/25/2023 @ 08:39
Date Received: 01/24/2023 @ 09:20

This report has been reviewed by:

Joanne Richardson

January 31, 2023
Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

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-Primary	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
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

National Testing Laboratories, Ltd.

Quality Water Analysis

1-800-458-3330

Beverage - Finished

439083

Order Number: 2205723
Order Date: 10/18/2022 439083
Sample Number:
Product: FDABASE GDR & Perchlorate
Paid: No Method: Purchase Order P.O.: Lincoln, IL
TSR: SBW

Lincoln IL 62656

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: Mahomet Aquifer
(Source Information is REQUIRED for All Finished Products)

City & State:
(If Different than Above)

Product Collected By: Shawna P. Gray
(Signature)

Product Collected By: Shawna P. Gray
(Please Print)

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

Container Size: 1 gallon

Production Code/Lot Number: 11152201

Form Completed By: Shawna P. Gray

Additional Comments:

For Laboratory Use ONLY

Lab Accounting Information:
Payment $:
Check #:

Lab Comments/Special Instructions:
2022 Distilled Product Annual
Dioxin

State Forms:

Lab Sample Information:
Date Received: 11,17,22
Time Received: 1004.00
Received By: Rupert
Date Opened: 1/1/
Time Opened: :
Opened By:

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

PSA

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

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.....439083
Client..... National Testing Laborato
Lab Sample ID..... 10640724001

Date Collected.....01/25/2023
Date Received.....01/24/2023
Date Extracted.....01/25/2023

Spike.....200 pg
IS Spike.....2000 pg
CS Spike.....200 pg

	Sample 439083	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	--	--	99%	101%
pg Recovered	--	--	198pg/L	201pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				1.5%
IS Recovery	**77%**	73%	61%	79%
pg Recovered	1539 pg/L	1458 pg/L	1229 pg/L	1571 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**77%**	75%	74%	85%
pg Recovered	154 pg/L	151 pg/L	148 pg/L	170 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F230128A_09	F230127C_05	F230127C_03	F230127C_04
Analysis Date	01/28/2023	01/27/2023	01/27/2023	01/27/2023
Analysis Time	03:51	13:44	12:45	13:14
Analyst	JRH	JRH	JRH	JRH
Volume	1.017L	0.949L	1.026L	1.030L
Dilution	NA	NA	NA	NA
ICAL Date	12/06/2022	12/06/2022	12/06/2022	12/06/2022
CCAL Filename	F230128A_02	F230127C_02	F230127C_02	F230127C_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 Heath

Project No.....10640724

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2205723
Pace Project No.: 30555508

Sample: 439083 **Lab ID: 30555508001** Collected: 01/17/23 09:00 Received: 01/19/23 10:15 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments:
- FINISHED PRODUCT, Mahemet Aquifer, Lincoln, IL
- Distilled Water, Prod. code: 1115220I, Cont. size: 1 Gallon
- no date/time/opened by listed
- 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					
Gross Alpha	EPA 900.0	**-0.049 ± 0.947 (2.51) C:NA T:NA**	pCi/L	01/31/23 08:14	12587-46-1	
Gross Beta	EPA 900.0	**-0.375 ± 0.565 (1.58) C:NA T:NA**	pCi/L	01/31/23 08:14	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.778 ± 0.562 (0.636) C:NA T:91%**	pCi/L	01/30/23 14:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.389 ± 0.343 (0.707) C:73% T:89%**	pCi/L	01/30/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.905 (1.34)**	pCi/L	02/02/23 13:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Client: National Testing Laboratories, Ltd
Project/Site: 439083

Job ID: 810-54431-1

Client Sample ID: 439083/ 2205723
Date Collected: 02/20/23 11:20
Date Received: 02/22/23 08:10

Lab Sample ID: 810-54431-1
Matrix: Bottled Water

5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.050		0.050		ug/L			02/27/23 05:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	<0.0050		0.0050		mg/L		02/24/23 16:37	02/24/23 18:07	1

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L2309375
Client:	National Testing Laboratories, LTD 6571 Wilson Mills Rd. Cleveland, OH 44143
ATTN:	Christian Schmidt
Phone:	(440) 449-2525
Project Name:	MAHOMET AQUIFER
Project Number:	Not Specified
Report Date:	02/28/23

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: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2309375-01	439085	DW	2205723	02/22/23 09:55	02/22/23

Project Name:	MAHOMET AQUIFER	**Lab Number:**	L2309375
Project Number:	Not Specified	**Report Date:**	02/28/23

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:	MAHOMET AQUIFER	**Lab Number:**	L2309375
Project Number:	Not Specified	**Report Date:**	02/28/23

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.

Sample Receipt

The sample was received at the laboratory above the required temperature range and was not on ice.

Perfluorinated Alkyl Acids by EPA 537.1

L2309375-01: The sample was received without preservation. During sample preparation, Trizma was added to meet the acceptable pH range for the method.

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: Darian Dailey

Title: Technical Director/Representative Date: 02/28/23

ORGANICS

SEMIVOLATILES

Project Name: MAHOMET AQUIFER
Project Number: Not Specified
Lab Number: L2309375
Report Date: 02/28/23

SAMPLE RESULTS

Lab ID: L2309375-01
Client ID: 439085
Sample Location: 2205723

Date Collected: 02/22/23 09:55
Date Received: 02/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Dw
Analytical Method: 133,537.1
Analytical Date: 02/26/23 19:16
Analyst: TBR

Extraction Method: EPA 537.1
Extraction Date: 02/25/23 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab						
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.625	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.87	0.625	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	1.87	0.625	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.87	0.625	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.625	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	1.87	0.625	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.87	0.625	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.625	1
Perfluorooctanesulfonic Acid (PFOS)	1.27	J	ng/l	1.87	0.625	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.625	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	1.87	0.625	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.625	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.625	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.625	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.625	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	1.87	0.625	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.625	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.625	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	85		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	80		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	87		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		70-130

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 133,537.1
Analytical Date: 02/26/23 18:24
Analyst: TBR

Extraction Method: EPA 537.1
Extraction Date: 02/25/23 07:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab for sample(s): 01 Batch: WG1748483-1					
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)	87		70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	83		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	80		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-2								
Perfluorobutanesulfonic Acid (PFBS)	101		-		50-150	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		50-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	102		-		50-150	-		30
Perfluoroheptanoic Acid (PFHpA)	116		-		50-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		50-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	127		-		50-150	-		30
Perfluorooctanoic Acid (PFOA)	114		-		50-150	-		30
Perfluorononanoic Acid (PFNA)	118		-		50-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	103		-		50-150	-		30
Perfluorodecanoic Acid (PFDA)	104		-		50-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	101		-		50-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	118		-		50-150	-		30
Perfluoroundecanoic Acid (PFUnA)	108		-		50-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	118		-		50-150	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		50-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	98		-		50-150	-		30
Perfluorotridecanoic Acid (PFTrDA)	112		-		50-150	-		30
Perfluorotetradecanoic Acid (PFTA)	106		-		50-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	93				70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	93				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	92				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-3				QC Sample: L2309593-01			Client ID: MS Sample			
Perfluorobutanesulfonic Acid (PFBS)	ND	1.59	1.68J	106		-	-		50-150	-		30
Perfluorohexanoic Acid (PFHxA)	ND	1.79	1.93	108		-	-		50-150	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	1.79	1.72J	96		-	-		50-150	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	1.79	1.90J	106		-	-		50-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.64	1.72J	105		-	-		50-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	1.69	1.97	116		-	-		50-150	-		30
Perfluorooctanoic Acid (PFOA)	ND	1.79	2.11	118		-	-		50-150	-		30
Perfluorononanoic Acid (PFNA)	ND	1.79	2.00	112		-	-		50-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	1.66	1.79J	108		-	-		50-150	-		30
Perfluorodecanoic Acid (PFDA)	ND	1.79	1.61J	90		-	-		50-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	1.67	1.43J	86		-	-		50-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.79	1.32J	74		-	-		50-150	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	1.79	1.54J	86		-	-		50-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.79	1.36J	76		-	-		50-150	-		30
Perfluorododecanoic Acid (PFDoA)	ND	1.79	1.43J	80		-	-		50-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	1.69	1.36J	80		-	-		50-150	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	1.79	1.58J	88		-	-		50-150	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	1.79	1.58J	88		-	-		50-150	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-3				QC Sample: L2309593-01			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)	84				70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	80				70-130
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	85				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-4 QC Sample: L2309798-01 Client ID: DUP Sample						
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	3.15	3.04	ng/l	4		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)	1.73J	1.77J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/l	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	5.78	5.78	ng/l	0		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-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: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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: WG1748483-4 QC Sample: L2309798-01 Client ID: DUP Sample

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	86		83		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	84		79		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	85		85		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		84		70-130

Project Name: MAHOMET AQUIFER
Project Number: Not Specified

Lab Number: L2309375
Report Date: 02/28/23

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(*)
L2309375-01A	Other container unpreserved	A	NA		15.9	N	Absent		A2-537.1(14)

Container Comments

L2309375-01A	Unpreserved.

*Values in parentheses indicate holding time in days

Project Name: MAHOMET AQUIFER
Lab Number: L2309375
Project Number:
Report Date: 02/28/23

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/PFTeDA	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/PFDoS	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
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
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/PFOSA	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: MAHOMET AQUIFER
Project Number:

Lab Number: L2309375
Report Date: 02/28/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	MAHOMET AQUIFER	**Lab Number:**	L2309375
Project Number:	Not Specified	**Report Date:**	02/28/23

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.

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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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

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Data Qualifiers

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.

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.)

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Project Name: MAHOMET AQUIFER
Project Number: Not Specified
Lab Number: L2309375
Report Date: 02/28/23

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.

2/22/23

L2309375

National Testing Laboratories, Ltd.
Quality Water Analysis

FP Subcontract Chain of Custody

Alpha Analytical

2/20/2023 3:10:22 PM

91

Sample Number: 439085
Source: Mahomet Aquifer
Source City: Lincoln
Source State: IL
Type of Water: Well Water
Brand: Distilled Water
Container Size: 1 Gallon
Production Code: 111522 DI

Sample Site Description: 2205723

PWS I.D.:
Location I.D.:
PA PWS I.D.:
PA Location:

Test/Analytes Required **Container Count:**
537.1 Sub 1

RECEIVER SIGNATURE CONFIRMS THAT THE BOTTLES RECEIVED ARE CONSISTENT WITH THE REQUIRED TESTING PROTOCOLS.			Relinquished By (Signature)	Date: 2/21/23	Time: 1600
Sampled By (Signature)	Date:	Time:	Received By (Signature)	Date: 2/22/23	Time: 9:45
Shipped By (Signature)	Date:	Time:	Relinquished By (Signature)	Date: 2-22	Time: 15:20
Received By (Signature)	Date:	Time:	Received By (Signature)	Date: 2/22/23	Time: 1525

COC-002 12/09/21

2/22/23 1640

2/22/23 1640

National Testing Laboratories, Ltd.

Quality Water Analysis

1-800-458-3330

Beverage - Finished Product

Order Number: 2205723
Order Date: 10/18/2022
Sample Number: 439085
Product: PFAS 18

Paid: No **Method:** Purchase Order **P.O.:** Lincoln, IL

TSR: SBW

Lincoln IL 62656

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: Mahomet Aquifer
(Source Information is REQUIRED for All Finished Products)

City & State: ______
(If Different than Above)

Product Collected By: [signature]
(Signature)

Product Collected By: Megan Harvey
(Please Print)

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

Container Size: one gallon

Production Code/Lot Number: ~~PCT522D~~ JH

Form Completed By: Megan Harvey

Additional Comments:
11/15/22 12:02 | 2/21/23 JH

For Laboratory Use ONLY

Lab Accounting Information:

Payment $: ______

Check #: ______

Lab Comments/Special Instructions:

2022 Distilled Product Annual

State Forms:

Lab Sample Information:

Date Received: 02/14/23

Time Received: 09:38

Received By: JM

Date Opened: ___/___/___

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#: ______

Location: ______

Rev: SRF102120 **INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS**

Serial_No:02282311:42