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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 (2 pages)
- EMSL Analytical, Inc. (1 page)
- Eurofins Eaton Analytical, Inc. (1 page)

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



National Testing Laboratories, Ltd556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585**ANALYTICAL REPORTS****SAMPLE CODE: 428357****3/29/2022****Customer:** Distillata
Rob McGregor
1608 East 24th St
Cleveland, OH 44114-4210**Source:** Cleveland Municipal
Source Type: Municipal Water
Brand Name: Distillata Reverse Osmosis Water
Production Code: 021022
Container Size: 5 Gallon**Date/Time Received:** 2/11/2022 09:36**Collected by:** R. McGregor

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	2/21/2022 13:20		3/10/2022
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	2/21/2022 13:20		3/9/2022
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	2/21/2022 13:20		3/9/2022
1010	Barium	200.7	2	mg/L	0.10	ND	1	2/21/2022 13:20		3/10/2022
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	2/21/2022 13:20		3/10/2022
1079	Boron	200.7	--	mg/L	0.10	ND	1	2/21/2022 13:20		3/10/2022
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	2/21/2022 13:20		3/10/2022
1016	Calcium	200.7	--	mg/L	2.0	ND	1	2/21/2022 13:20		3/10/2022
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	2/21/2022 13:20		3/10/2022
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	2/21/2022 13:20		3/10/2022
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	2/21/2022 13:20		3/10/2022
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	2/21/2022 13:20		3/9/2022
1031	Magnesium	200.7	--	mg/L	0.10	ND	1	2/21/2022 13:20		3/10/2022
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	2/21/2022 13:20		3/10/2022
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	2/21/2022 13:20		3/9/2022
1036	Nickel	200.7	--	mg/L	0.005	ND	1	2/21/2022 13:20		3/10/2022
1042	Potassium	200.7	--	mg/L	1.0	ND	1	2/21/2022 13:20		3/10/2022
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	2/21/2022 13:20		3/9/2022
1049	Silica	200.7	--	mg/L	0.05	ND	1	2/21/2022 13:20		3/10/2022

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National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 428357

3/29/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
1050	Silver	200.7	0.10	mg/L	0.002	ND	1	2/21/2022 13:20		3/10/2022
1052	Sodium	200.7	--	mg/L	1	ND	1	2/21/2022 13:20		3/10/2022
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	2/21/2022 13:20		3/9/2022
4009	Uranium	200.8	0.030	mg/L	0.001	ND	1	2/21/2022 13:20		3/9/2022
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	2/21/2022 13:20		3/10/2022
Physical Factors										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND	1	2/21/2022 13:20		2/25/2022
1905	Apparent Color	2120B	15	CU	3	ND	1	2/21/2022 13:20		2/21/2022 16:05
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	2/21/2022 13:20		2/25/2022
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	2/21/2022 13:20		2/25/2022
1910	Corrosivity	2330B	--	SI	-5.35	R2	1	2/21/2022 13:20		3/10/2022
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	2/21/2022 13:20		2/22/2022 16:15
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole										
1915	Hardness	2340B	--	mg/L	5.0	ND	1	2/21/2022 13:20		3/10/2022
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND	1	2/21/2022 13:20		2/25/2022
1920	Odor Threshold	2150B	3	ton	1	ND	1	2/21/2022 13:20		2/21/2022 15:05
1925	pH	150.1	5-7	pH Units		6.4	1	2/21/2022 13:20		2/21/2022 15:00
4254	pH Temperature	150.1	--	Deg, C		21	1	2/21/2022 13:20		2/21/2022 15:00
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	4	1	2/21/2022 13:20		2/25/2022
1930	Total Dissolved Solids	2540C	500	mg/L	5	ND	1	2/21/2022 13:20		2/22/2022
0100	Turbidity	2130B	1	NTU	0.1	ND	1	2/21/2022 13:20		2/21/2022 17:05
Inorganic Analytes - Other										
1011	Bromate	300.1	0.010	mg/L	0.005	ND	1	2/21/2022 13:20		3/1/2022
1004	Bromide	300.1	--	mg/L	0.005	ND	1	2/21/2022 13:20		3/1/2022
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	2/21/2022 13:20		2/22/2022 13:40
1017	Chloride	300.0	250	mg/L	1.0	ND	1	2/21/2022 13:20		2/23/2022 10:56
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	2/21/2022 13:20		2/22/2022 13:37
1008	Chlorine Dioxide as ClO2	4500ClO2D	0.8	mg/L	0.1	ND	1	2/21/2022 13:20		2/22/2022 13:44
1009	Chlorite	300.1	1.0	mg/L	0.005	ND	1	2/21/2022 13:20		3/1/2022
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	2/21/2022 13:20		2/23/2022 10:56
1040	Nitrate as N	300.0	10	mg/L	0.05	ND	1	2/21/2022 13:20		2/23/2022 10:56
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	2/21/2022 13:20		2/23/2022 10:56
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	1	2/21/2022 13:20		2/23/2022 10:56
1055	Sulfate	300.0	250	mg/L	5.0	ND	1	2/21/2022 13:20		2/23/2022 10:56
Organic Analytes - Trihalomethanes										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	0.0014	1	2/21/2022 13:20		2/21/2022
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	0.0014	1	2/21/2022 13:20		2/21/2022

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ANALYTICAL REPORTS

SAMPLE CODE: 428357

3/29/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	0.0005	1	2/21/2022 13:20		2/21/2022
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	0.0033	1	2/21/2022 13:20		2/21/2022
Organic Analytes - Haloacetic Acids										
2454	Dibromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
2451	Dichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
2453	Monobromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
2450	Monochloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
2452	Trichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
2456	Total HAAs	552.2 HAAs 60		ug/L	1.0	ND	1	2/21/2022 13:20	2/23/2022	3/2/2022
Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022

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ANALYTICAL REPORTS

SAMPLE CODE: 428357

3/29/2022

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	2/21/2022 13:20		2/21/2022
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	1	2/21/2022 13:20		2/21/2022
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	2/21/2022 13:20		2/21/2022
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	2/21/2022 13:20		2/21/2022
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	2/21/2022 13:20		2/21/2022
Organic Analytes - Others										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	2/21/2022 13:20	3/1/2022	3/1/2022
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	2/21/2022 13:20	3/1/2022	3/1/2022
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2356	Aldrin	505	--	mg/L	0.00007	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2625	Bentazon	515.4	--	ug/L	1	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022

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ANALYTICAL REPORTS

SAMPLE CODE: 428357

3/29/2022

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2031	Dalapon	515.4	200	ug/L	1	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2440	Dicamba	515.4	--	ug/L	1	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2933	Dichloran	505	--	mg/L	0.001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2070	Dieldrin	505	--	mg/L	0.00002	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2032	Diquat	549.2	20	ug/L	0.4	ND	1	2/21/2022 13:20	2/27/2022	3/9/2022
2033	Endothall	548.1	100	ug/L	9	ND	1	2/21/2022 13:20	2/28/2022	3/9/2022
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2034	Glyphosate	547	700	ug/L	6	ND	1	2/21/2022 13:20		3/2/2022
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2626	Molinate	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	2/21/2022 13:20		3/1/2022
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2040	Picloram	515.4	500	ug/L	0.1	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	2/21/2022 13:20	2/24/2022	3/4/2022
2037	Simazine	525.2	4	ug/L	0.1	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	2/21/2022 13:20	3/7/2022	3/18/2022
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2 1	2/21/2022 13:20		3/1/2022
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022
2055	Trifluralin	505	--	mg/L	0.001	ND	1	2/21/2022 13:20	2/25/2022	2/25/2022

Qualifiers:

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

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National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 428357

3/29/2022

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
DMJ	200.8,2130B
BNF	2320B
JF	2120B,2150B
DHG	5540C,4500CI-G,4500CI02D,420.4
PC	150.1
OM	2510B
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

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National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166

(440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS**SAMPLE CODE: 428356****3/1/2022**

Customer: Distillata
Rob McGregor
1608 East 24th St
Cleveland, OH 44114-4210

Source: Cleveland Municipal
Source Type: Municipal Water
Brand Name: Distillata Reverse Osmosis Water
Production Code: 021022
Container Size: 5 Gallon

Date/Time Received: 2/11/2022 09:36**Collected by:** R. McGregor

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	2/21/2022 13:20		2/22/2022 12:05
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	2/21/2022 13:20		2/22/2022 11:40
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	2/21/2022 13:20		2/22/2022 11:40
Pour Plate Method, 35°C/72hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	2/21/2022 13:20		2/22/2022 12:05



Analyst	Tests
GK	9223B
CF	9215B

Sarah Buchanan, Project Manager

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National Testing Laboratories, Ltd556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585**ANALYTICAL REPORTS****SAMPLE CODE: 428358****3/16/2022****Customer:** Distillata
Rob McGregor
1608 East 24th St
Cleveland, OH 44114-4210**Source:** Cleveland Municipal
Source Type: Municipal Water
Brand Name: Distillata Reverse Osmosis Water
Production Code: 021022
Container Size: 5 Gallon**Date/Time Received:** 2/11/2022 09:36**Collected by:** R. McGregor

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	2/21/2022 13:20		2/21/2022 15:28
Total Coliform and E.coli were ABSENT in this sample.										
USP XXIII										
1003	Ammonia (as NH3)	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/14/2022
1016	Calcium	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/11/2022
1901	Carbon Dioxide (Free CO2)	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/11/2022
1017	Chloride	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/15/2022
	Heavy Metals (USP)	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/14/2022
	Oxidizables (USP)	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/14/2022
1925	pH	USP XXIII	--	pH Units		6.4	R2 1	2/21/2022 13:20		2/21/2022 15:00
1055	Sulfate	USP XXIII	--	Pass/Fail		Pass	R2 1	2/21/2022 13:20		3/11/2022
	Total Solids	USP XXIII	10	mg/L	10	ND	R2 1	2/21/2022 13:20		3/1/2022

Qualifiers:

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

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National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 428358

3/16/2022

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



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

Sarah Buchanan, Project Manager

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Report Prepared for:

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

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

Report Summary:

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

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

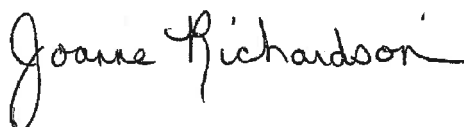
Pace Project Number:
10598309

Report Prepared Date:
March 9, 2022

Finished Product

Sample ID: 428357
Source Name: Cleveland Municipal
Source Location: Cleveland, OH
PWS ID: N/A
Date & Time Opened: N/A
Opened By:
Laboratory Sample ID: 10598309001-R
Date Sampled: 02/02/2022 @ 13:20
Date Received: 02/23/2022 @ 09:00

This report has been reviewed by:



March 09, 2022

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



Report of Laboratory Analysis

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

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



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

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

Minnesota Laboratory Certifications

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

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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

COC-001 2/22/11

See instructions on reverse side →

1-800-458-3330

Beverage - Finished Product

Order Number: 2186476

Order Date: 12/13/2021

Sample Number:

428357

Product:

FDATABASE GDRX

Paid: No

Method: Purchase

P.O.: Cleveland, Ohio

Order

TSR: SBW

Cleveland

OH 44114-4210

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: Cleveland municipal
(Source Information is REQUIRED for All Finished Products)

City & State: _____
(If Different than Above)

Product Collected By: Robert McGregor
(Signature)

Product Collected By: Rob McGregor
(Please Print)

Brand Name/Product Type: Distillate Reverse Osmosis water
e.g. XYZ Spring Water or XYZ Distilled Water

Container Size: 5 gallon

Production Code/Lot Number: 021022

Form Completed By: Rob McGregor


Additional Comments:

For Laboratory Use ONLY
Lab Accounting Information:
Payment \$: _____
Check #: _____
Lab Comments/Special Instructions:
2022 RO Product
<u>Dioxin</u>
State Forms:
NY
Lab Sample Information:
Date Received: <u>2/11/22</u>
Time Received: <u>09:36</u>
Received By: <u>CB</u>
Date Opened: <u>2/21/22</u>
Time Opened: <u>13:20</u>
Opened By: <u>M. Miller</u>
<input checked="" type="checkbox"/> Sample receipt criteria checked & acceptable.
<input type="checkbox"/> 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: _____

	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 Lab	Project #: WO# : 10598309
Courier:	<input type="checkbox"/> Fed Ex <input type="checkbox"/> Pace	<input checked="" type="checkbox"/> UPS <input type="checkbox"/> Speedee <input type="checkbox"/> USPS <input type="checkbox"/> Commercial <input type="checkbox"/> Client
Tracking Number:	1ZAIN9310175212087	
See Exceptions <input type="checkbox"/> ENV-FRM-MIN4-0142		

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

Did Samples Originate in West Virginia?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6°C		Cooler Temp Read w/temp blank:	°C
Correction Factor:	Cooler Temp Corrected w/temp blank:	Average Corrected Temp (no temp blank only):	1.6 °C
		See Exceptions <input checked="" type="checkbox"/> ENV-FRM-MIN4-0142	<input type="checkbox"/> 1 Container

USDA Regulated Soil: ☒ N/A ☐ water sample/Other: _____ Date/Initials of Person Examining Contents: **KN 02-23-22**
 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): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No KN 2-23-22
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Headspace In Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Headspace In VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

CLIENT NOTIFICATION/RESOLUTION	Field Data Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Person Contacted:	Date/Time:
Comments/Resolution:	

Project Manager Review: Joanne Richardson Date: 2-23-22

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: KN (2)

	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 #: 10598309

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>2.4</td> <td>2.4</td> <td>1.6</td> </tr> <tr> <td>1.6</td> <td>1.6</td> <td></td> </tr> <tr> <td>1.8</td> <td>1.8</td> <td></td> </tr> <tr> <td>0.5</td> <td>0.5</td> <td></td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	2.4	2.4	1.6	1.6	1.6		1.8	1.8		0.5	0.5	
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			
2.4	2.4	1.6																			
1.6	1.6																				
1.8	1.8																				
0.5	0.5																				

Tracking Number/Temperature

Issue Type:	Container Type	# of Containers
Sample ID		

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? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:



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

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

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

Sample ID.....428357 Date Collected.....02/02/2022 Spike.....200 pg
Client..... National Testing Laboratory Date Received.....02/23/2022 IS Spike.....2000 pg
Lab Sample ID.....10598309001-R Date Extracted.....03/04/2022 CS Spike.....200 pg

	Sample 428357	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	--	--	115%	116%
pg Recovered	--	--	230pg/L	232pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			1.2%	
IS Recovery	64%	67%	74%	75%
pg Recovered	1286 pg/L	1337 pg/L	1485 pg/L	1503 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	99%	97%	106%	99%
pg Recovered	198 pg/L	193 pg/L	213 pg/L	197 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E220308A_25	E220308A_10	E220308A_03	E220308A_04
Analysis Date	03/08/2022	03/08/2022	03/08/2022	03/08/2022
Analysis Time	23:25	15:15	10:56	11:28
Analyst	SM	SM	CVS	CVS
Volume	1.014L	0.963L	1.000L	0.938L
Dilution	NA	NA	NA	NA
ICAL Date	11/30/2021	11/30/2021	11/30/2021	11/30/2021
CCAL Filename	E220308A_08	E220308A_08	E220308A_02	E220308A_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-¹³C₁₂]
CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄]

Analyst:

Project No.....10598309

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2186476
Pace Project No.: 30467400

Sample: 428357 **Lab ID: 30467400001** Collected: 02/21/22 13:20 Received: 02/23/22 09:40 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments: • FINISHED PRODUCT, Cleveland Municipal, Cleveland, OH
• Distillata Reverse Osmosis Water, 5 gallon, 021022
• sample opened on 2/21/22 @ 1320 by M. Miller
• 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	18.3 ± 45.3 (77.8) C:NA T:NA	pCi/L	02/26/22 20:56	10043-92-2	H1
Pace Analytical Services - Greensburg						
Gross Alpha	EPA 900.0	0.186 ± 0.615 (1.56) C:NA T:NA	pCi/L	03/11/22 07:24	12587-46-1	
Gross Beta	EPA 900.0	-0.756 ± 0.461 (1.52) C:NA T:NA	pCi/L	03/11/22 07:24	12587-47-2	
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0515 ± 0.380 (0.726) C:NA T:95%	pCi/L	03/22/22 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.422 ± 0.364 (0.751) C:68% T:96%	pCi/L	03/18/22 14:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.474 ± 0.744 (1.48)	pCi/L	03/28/22 17:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2186476
Pace Project No.: 30467400

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Act - Activity
Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.
Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

REPORT OF LABORATORY ANALYSIS

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EMSL Analytical, Inc.

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

EMSL Order ID: 042203800
 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: 02/23/2022
 Analyzed: 03/09/2022

Proj: 428357

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)				
428357 042203800-0001	2/23/2022 11:45 AM	100	1322	0.0780	None Detected	ND	0.17	<0.17	0.00 - 0.63

Collection Date/Time: 02/21/2022 13:20 PM

Bottle supplied by client

Analyst(s)

Ted Young (1)

Samantha Rundstrom

Samantha Rundstrom, Laboratory Manager
 or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 03/09/2022 09:42:45

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

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



Client Sample Results

Client: National Testing Laboratories, Ltd
Project/Site: 428357,428383,428394,428601

Job ID: 810-15816-1

Client Sample ID: 428357

Date Collected: 02/21/22 13:20

Date Received: 02/23/22 10:00

Lab Sample ID: 810-15816-1

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			02/25/22 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.020		0.020		mg/L		03/04/22 07:00	03/04/22 10:06	1