



Corporate Headquarters  
6571 Wilson Mills Road  
Cleveland, Ohio 44143

Phone: 800-458-3330

This report package contains 20 pages

This package contains reports from the following laboratories:

- National Testing Laboratories, Ltd. (7 pages)
- Pace Analytical Services, Inc.- Minneapolis, MN (7 pages)
- Pace Analytical Services, Inc.-Greensburg, PA (1 page)
- EMSL Analytical, Inc. (1 page)
- Eurofins Eaton Analytical, Inc. (3 pages)

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



## National Testing Laboratories, Ltd

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

## ANALYTICAL REPORTS

SAMPLE CODE: 378252

2/20/2018

**Customer:** Fountain of Truth Spring Water  
Christopher Sanborn  
PO Box 791782  
Paia, HI 96779

**Source:** Opal Springs via DVWD  
**Source Type:** Municipal Water  
**Brand Name:** Live Water  
**Production Code:** 11518  
**Container Size:** 2.5 Gallon

**Date/Time Received:** 1/22/2018 09:12**Collected by:** D. Lonien

The results herein conform to TNI and ISO/IEC 17025:2005 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
<b>Inorganic Analytes - Metals</b>										
1002	Aluminum	200.7	0.2	mg/L	0.05	ND	1	1/29/2018 14:06		2/2/2018
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	1/29/2018 14:06		2/2/2018
1005	Arsenic	200.8	0.010	mg/L	0.002	0.003	1	1/29/2018 14:06		2/2/2018
1010	Barium	200.7	2	mg/L	0.10	ND	1	1/29/2018 14:06		2/2/2018
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	1/29/2018 14:06		2/2/2018
1079	Boron	200.7	--	mg/L	0.10	ND	1	1/29/2018 14:06		2/2/2018
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	1/29/2018 14:06		2/2/2018
1016	Calcium	200.7	--	mg/L	2.0	5.9	1	1/29/2018 14:06		2/2/2018
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	1/29/2018 14:06		2/2/2018
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	1/29/2018 14:06		2/2/2018
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	1/29/2018 14:06		2/2/2018
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	1/29/2018 14:06		2/2/2018
1031	Magnesium	200.7	--	mg/L	0.10	5.40	1	1/29/2018 14:06		2/2/2018
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	1/29/2018 14:06		2/2/2018
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	1/29/2018 14:06		2/2/2018
1036	Nickel	200.7	--	mg/L	0.005	ND	1	1/29/2018 14:06		2/2/2018
1042	Potassium	200.7	--	mg/L	1.0	2.0	1	1/29/2018 14:06		2/2/2018
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	1/29/2018 14:06		2/2/2018
1049	Silica	200.7	--	mg/L	0.05	38.00	1	1/29/2018 14:06		2/2/2018

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

## ANALYTICAL REPORTS

SAMPLE CODE: 378252

2/20/2018

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
1050	Silver	200.7	0.10	mg/L	0.002	ND	1	1/29/2018 14:06		2/2/2018
1052	Sodium	200.7	--	mg/L	1	11	1	1/29/2018 14:06		2/2/2018
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	1/29/2018 14:06		2/2/2018
4009	Uranium	200.8	0.030	mg/L	0.001	ND	1	1/29/2018 14:06		2/2/2018
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	1/29/2018 14:06		2/2/2018
<b>Physical Factors</b>										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	56	1	1/29/2018 14:06		2/9/2018
1905	Apparent Color	2120B	15	CU	3	ND	1	1/29/2018 14:06		1/29/2018 17:25
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	56	1	1/29/2018 14:06		2/9/2018
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	1/29/2018 14:06		2/9/2018
1910	Corrosivity	2330B	--	SI		-1.25	R2	1	1/29/2018 14:06	2/9/2018
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	1/29/2018 14:06		1/30/2018 16:20
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole										
1915	Hardness (as CaCO3)	2340C	--	mg/L	10	34	1	1/29/2018 14:06		2/17/2018
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND	1	1/29/2018 14:06		2/9/2018
1920	Odor Threshold	2150B	3	ton	1	ND	1	1/29/2018 14:06		1/29/2018 15:55
1925	pH	150.1	6.5-8.5	pH Units		7.6	1	1/29/2018 14:06		1/29/2018 16:20
4254	pH Temperature	150.1	--	Deg, C		21	1	1/29/2018 14:06		1/29/2018 16:20
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	130	1	1/29/2018 14:06		2/8/2018
1930	Total Dissolved Solids	2540C	500	mg/L	5	110	1	1/29/2018 14:06		1/31/2018
0100	Turbidity	2130B	1	NTU	0.1	ND	1	1/29/2018 14:06		1/29/2018 17:00
<b>Inorganic Analytes - Other</b>										
1011	Bromate	300.1	0.010	mg/L	0.005	ND	1	1/29/2018 14:06		2/9/2018
1004	Bromide	300.1	--	mg/L	0.005	0.008	1	1/29/2018 14:06		2/9/2018
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	1/29/2018 14:06		1/30/2018 19:16
1017	Chloride	300.0	250	mg/L	1.0	1.7	1	1/29/2018 14:06		1/30/2018 10:56
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	1/29/2018 14:06		1/30/2018 19:13
1008	Chlorine Dioxide as ClO2	4500ClO2D	0.8	mg/L	0.1	ND	1	1/29/2018 14:06		1/30/2018 19:13
1009	Chlorite	300.1	1.0	mg/L	0.005	ND	1	1/29/2018 14:06		2/9/2018
1025	Fluoride	300.0	4.0	mg/L	0.10	0.11	1	1/29/2018 14:06		1/30/2018 10:56
1040	Nitrate as N	300.0	10	mg/L	0.05	0.16	1	1/29/2018 14:06		1/30/2018 10:56
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	1/29/2018 14:06		1/30/2018 10:56
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	1	1/29/2018 14:06		1/30/2018 10:56
1055	Sulfate	300.0	250	mg/L	5.0	ND	1	1/29/2018 14:06		1/30/2018 10:56
<b>Organic Analytes - Trihalomethanes</b>										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018

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## ANALYTICAL REPORTS

SAMPLE CODE: 378252

2/20/2018

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
<b>Organic Analytes - Haloacetic Acids</b>										
2454	Dibromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
2451	Dichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
2453	Monobromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
2450	Monochloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
2452	Trichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
2456	Total HAAs	552.2 HAAs 60		ug/L	1.0	ND	1	1/29/2018 14:06	2/1/2018	2/6/2018
<b>Organic Analytes - Volatiles</b>										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018

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## ANALYTICAL REPORTS

SAMPLE CODE: 378252

2/20/2018

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	1	1/29/2018 14:06		1/31/2018
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	1/29/2018 14:06		1/31/2018
Due to the limitation of EPA Method 524.2, p and m isomers of Xylene are reported as aggregate.										
2998	Propylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	1/29/2018 14:06		1/31/2018
<b>Organic Analytes - Others</b>										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	1/29/2018 14:06	1/31/2018	2/1/2018
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	1/29/2018 14:06	1/31/2018	2/1/2018
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2356	Aldrin	505	--	mg/L	0.00007	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2625	Bentazon	515.4	--	ug/L	1	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018

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SAMPLE CODE: 378252

2/20/2018

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2031	Dalapon	515.4	200	ug/L	1	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2440	Dicamba	515.4	--	ug/L	1	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2933	Dichloran	505	--	mg/L	0.001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2070	Dieldrin	505	--	mg/L	0.00002	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2032	Diquat	549.2	20	ug/L	0.4	ND	1	1/29/2018 14:06	2/5/2018	2/9/2018
2033	Endothall	548.1	100	ug/L	9	ND	1	1/29/2018 14:06	2/5/2018	2/8/2018
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2034	Glyphosate	547	700	ug/L	6	ND	1	1/29/2018 14:06		1/30/2018
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2626	Molinate	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	1/29/2018 14:06		2/13/2018
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2040	Picloram	515.4	500	ug/L	0.1	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	1/29/2018 14:06	1/30/2018	2/7/2018
2037	Simazine	525.2	4	ug/L	0.1	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	1/29/2018 14:06	2/2/2018	2/6/2018
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2910	Total Phenols	420.4	--	mg/L	0.001	0.001 R2	1	1/29/2018 14:06		2/8/2018
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018
2055	Trifluralin	505	--	mg/L	0.001	ND	1	1/29/2018 14:06	1/29/2018	1/30/2018

Qualifiers:

R2: The laboratory is not accredited for this analyte. The resulting value should be used for informational purposes only.

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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: 378252**

**2/20/2018**

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



Christine MacMillan, Technical Director

Analyst	Tests
DD	200.7
SMG	200.8
PC	2320B,2120B,2330B,5540C,2340C,2150B,150.1,2510B,2130B
CF	2540C
SG	300.1,300.0
DHG	4500CI-G,4500CI02D,420.4
SB	524.2 THMs,524.2,531.2,549.2,547
JPT	552.2 HAAs,504.1,515.4,505
JF	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: 378251**

**2/2/2018**

**Customer:** Fountain of Truth Spring Water  
 Christopher Sanborn  
 PO Box 791782  
 Paia, HI 96779

**Source:** Opal Springs via DVWD  
**Source Type:** Municipal Water  
**Brand Name:** Live Water  
**Production Code:** 11518  
**Container Size:** 2.5 Gallon

**Date/Time Received:** 1/22/2018 09:12

**Collected by:** D. Lonien

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

**Legend:**

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

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

**"NA"** Not Analyzed

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

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

**"DF"** This column indicates the contaminant dilution factor.

**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Microbiologicals</b>										
3114	E. Coli	9223B	1	MPN/100 mL	1	ND	1	1/29/2018 14:06		1/29/2018 16:31
3001	Standard Plate Count	9215B	500	CFU/ml	1	420	A6	1/29/2018 14:06		1/29/2018 16:00
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	1/29/2018 14:06		1/29/2018 16:31

**Qualifiers:**

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

Analyst	Tests
GK	9223B,9215B

*Megan Gregg*

Megan Gregg, Quality System 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.

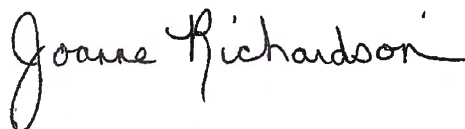
**Pace Project Number:**  
10419231

**Report Prepared Date:**  
February 9, 2018

**Finished Product**

Sample ID: 378252  
Source Name: Opal Springs via DVWD  
Source Location: Paia HI  
PWS ID: N/A  
Date & Time Opened: N/A  
Opened By:  
Laboratory Sample ID: 10419231001  
Date Sampled: 01/29/2018 @ 14:06  
Date Received: 02/02/2018 @ 08:50

**This report has been reviewed by:**



February 09, 2018

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.



## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	CERT0092
Alaska	MN00064	Nebraska	NE-OS-18-06
Alaska	UST-078	Nevada	MN00064
Arizona	AZ0014	New Jersey (NE)	MN002
Arkansas	88-0680	New York (NEL)	11647
CNMI Saipan	MP0003	New hampshire	2081
California	MN00064	North Carolina	27700
Colorado	MN00064	North Carolina	530
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-L	Ohio	41244
Florida (NELAP)	E87605	Ohio VAP	CL101
Georgia (EDP)	959	Oklahoma	9507
Guam EPA	959	Oregon (ELAP)	MN200001
Hawaii	MN00064	Oregon (OREL)	MN300001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200011	Puerto Rico	MN00064
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Tennessee	TN02818
Kansas	E-10167	Texas	T104704192
Kentucky	90062	Utah (NELAP)	MN00064
Louisiana	03086	Virginia	460163
Louisiana	MN00064	Washington	C486
Maine	MN00064	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-L

## REPORT OF LABORATORY ANALYSIS

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## Reporting Flags

- A = Reporting Limit based on signal to noise
- 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
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

### REPORT OF LABORATORY ANALYSIS

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**CHAIN OF CUSTODY**

Initiated by:  Client  National Testing Laboratories, Ltd.  Other

1041923

CLIENT COMMENTS:		COLLECTION		TYPES OF SAMPLES: <small>DRINKING WATER = D SOIL SAMPLE = S                      GROUND WATER = G SLUDGE/WASTE = W                      POOL WATER = P OTHER TYPE = O</small>	SAMPLE SITE DESCRIPTION	S A M P L E T Y P E	# O F C O N T A I N E R S	TEST(S) REQUESTED PER SAMPLE (X)	LAB #
SAMPLE #	DATE	TIME							
378458	1/29/18	1400		2104066 (no other paperwork)	A Z X				
378252	J	1400		2104072	L V Y				001

RECEIVER SIGNATURE CONFIRMS THAT THE BOTTLES RECEIVED ARE CONSISTENT WITH THE REQUIRED TESTING PROTOCOL.		RELINQUISHED BY: (Signature)	DATE	TIME	LABORATORY COMMENTS: F 3 7
SAMPLED BY: (Signature)	DATE	TIME	(4)		
SHIPPED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
(1)			(5)	2/2/18	850
RECEIVED BY: (Signature)	DATE	TIME	RELINQUISHED	DATE	TIME
(2)	2/1/18	NEW	(6)		
RECEIVED BY: (Signature)	DATE	TIME	RECEIVED BY:	DATE	TIME
(3)			(6)		

1-800-458-3330

Beverage - Finished Product

Order Number: 2104672  
Order Date: 1/15/2018  
Sample Number:  
Product: 50 DDBP

378252



Paid: Yes Method: Internet P.O.:  
TSR: SBW

Paia

HI 96779

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

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
	2018 Spring Product Annual
State Forms:	
Lab Sample Information:	
Date Received:	1/22/18
Time Received:	09:12
Received By:	BF
Date Opened:	1/29/2018
Time Opened:	14:06
Opened By:	M. Miller
<input checked="" type="checkbox"/> Sample receipt criteria checked & acceptable.	
<input type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	

PWS ID# (if applicable): 501

Source Type:  Spring  Well  Municipal  
 Other: \_\_\_\_\_

Source Name: Opal Spring via DDBP  
(Source Information is REQUIRED for All Finished Products)

City & State: Culver OH  
(If Different than Above)

Product Collected By: *[Signature]*  
(Signature)

Product Collected By: Daniel Lohien  
(Please Print)

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

Container Size: 2.5 gal glass X 2

Production Code/Lot Number: 11518

Form Completed By: Daniel Lohien

Additional Comments:

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

Penn. PWS ID#: \_\_\_\_\_  
Location: \_\_\_\_\_

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

**Sample Condition Upon Receipt**

Client Name: NTL

Project #: \_\_\_\_\_

**WO#: 10419231**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Speedee  Other: \_\_\_\_\_  
 Tracking Number: 1Z A1U 931 01 6860 0733

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: foam      Temp Blank?  Yes  No

Thermometer Used:  151401163      Type of Ice:  Wet  Blue  None  Dry  Melted  
 G87A9155100842

Cooler Temp Read (°C): 2.9      Cooler Temp Corrected (°C): 2.7      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: -0.2      Date and Initials of Person Examining Contents: ME 2/2/18

USDA Regulated Soil  N/A, water sample)  
 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 (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: <u>wt</u>	12.
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 <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample # Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
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 Pace Trip Blank Lot # (if purchased): _____	15.

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: Walter Boberg

Date: 2/5/18

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).



PaceAnalyticalServices,LLC  
 1700ElmStreet- Suite 200  
 Minneapolis,MN,55414

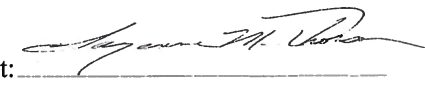
Tel:612-607-1700  
 Fax:612-607-6444

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

Sample ID.....378252	Date Collected.....01/29/2018	Spike.....200 pg
Client..... National Testing Laborato	Date Received.....02/02/2018	IS Spike.....2000 pg
Lab Sample ID..... 10419231001	Date Extracted.....02/07/2018	CS Spike.....200 pg

	Sample 378252	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	--	--	103%	108%
pg Recovered	--	--	206pg/L	215pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			4.5%	
IS Recovery	71%	74%	72%	71%
pg Recovered	1410 pg/L	1473 pg/L	1446 pg/L	1412 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	90%	88%	96%	96%
pg Recovered	180 pg/L	177 pg/L	191 pg/L	192 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F180208B_23	F180208B_05	F180208B_03	F180208B_04
Analysis Date	02/09/2018	02/08/2018	02/08/2018	02/08/2018
Analysis Time	07:24	22:43	21:45	22:14
Analyst	SMT	SMT	SMT	SMT
Volume	1.041L	0.978L	0.978L	1.023L
Dilution	NA	NA	NA	NA
ICAL Date	01/13/2018	01/13/2018	01/13/2018	01/13/2018
CCAL Filename	F180208B_02	F180208B_02	F180208B_02	F180208B_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-<sup>13</sup>C<sub>12</sub>]
- CS = Cleanup Standard [2,3,7,8-TCDD-<sup>37</sup>Cl<sub>4</sub>]

Analyst: 

Project No.....10419231

## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2104672  
Pace Project No.: 30242181

**Sample:** 378252      **Lab ID:** 30242181001      Collected: 01/29/18 14:06      Received: 01/31/18 10:10      Matrix: Drinking Water  
**PWS:**      **Site ID:**      **Sample Type:**

**Comments:**

- FINISHED WATER, Opal Springs via DVWD, Culver OR
- Live Water, Cont. size: 2.5 gal glass, Prod. code: 11518
- Sample opened on 01/29/2018 @14:06 by M. Miller
- Upon receipt at the laboratory, 3 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis.
- Sample collection dates and times were not present on the sample containers.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	<b>-8.7 ± 32.1 (56.8)</b> C:NA T:NA	pCi/L	02/01/18 08:55	10043-92-2	
Gross Alpha	EPA 900.0	<b>-0.551 ± 0.601 (1.78)</b> C:NA T:NA	pCi/L	02/12/18 18:50	12587-46-1	
Gross Beta	EPA 900.0	<b>1.10 ± 0.630 (1.24)</b> C:NA T:NA	pCi/L	02/12/18 18:50	12587-47-2	
Radium-226	EPA 903.1	<b>0.0967 ± 0.232 (0.449)</b> C:NA T:92%	pCi/L	02/15/18 20:50	13982-63-3	
Radium-228	EPA 904.0	<b>0.0791 ± 0.353 (0.805)</b> C:79% T:74%	pCi/L	02/08/18 15:37	15262-20-1	
Total Radium	Total Radium Calculation	<b>0.176 ± 0.585 (1.25)</b>	pCi/L	02/20/18 15:18	7440-14-4	

### 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> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order ID: 041803146  
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  
Collected: 01/29/2018  
Received: 01/31/2018  
Analyzed: 02/08/2018

Proj: 2104672

## 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 (mm <sup>2</sup> )	Area Analyzed (mm <sup>2</sup> )	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration MFL (million fibers per liter)	Confidence Limits
378252 041803146-0001	1/31/2018 10:30 AM	100	1387	0.0762	None Detected	ND	0.18	<0.18	0.00 - 0.67

Analyst(s)

Matthew Dare (1)

Benjamin Ellis, Laboratory Manager  
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 02/08/2018 15:19:56

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10µm. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.

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





Eaton Analytical

110 South Hill Street  
South Bend, IN 46617  
Tel: (574) 233-4777  
Fax: (574) 233-8207  
1 800 332 4345

### Laboratory Report

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

Report: 407678  
Priority: Standard Written  
Status: Final  
PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3861974	378252 Order #2104672	335.4	01/29/18 14:06	Client	01/31/18 09:30
3861984	378252 Order #2104672	331.0	01/29/18 14:06	Client	01/31/18 09:30

### Report Summary

Note: Sample container for Method 331.0 was provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

*Traci Chlebowski ASM*

Authorized Signature

Title

02/08/2018

Date

Client Name: National Testing Laboratories  
Report #: 407678

Client Name: National Testing Laboratories

Report #: 407678

Sampling Point: 378252 Order #2104672

PWS ID: Not Supplied

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
14797 73-0	Perchlorate	331.0	---	0.05	0.07	ug/L	---	02/02/18 02:32	3861984
57-12.5	Cyanide, Total	335.4	0.1 &	0.02	< 0.02	mg/L	02/05/18 13:26	02/05/18 15:48	3861974

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL	SOQ
Symbol:	*	^	!	&

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC)** - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD)** - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM)** - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS)** - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.