



Corporate Headquarters
6571 Wilson Mills Road
Cleveland, Ohio 44143

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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.



ANALYTICAL REPORTS

SAMPLE CODE: 368980

5/3/2017

Customer: ISBRE Water AS & NGW AS
Jarand Ronjom
PO Box 3
N-5731 Ulvik
Ulvik 5731
Norway

Source: Isbre Kilden
Sample Temperature: 4-5C

Date/Time Received: 4/6/2017 10:25

Collected by: I. Polden

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, 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.

The laboratory fortified matrix for Method 505 failed due to improper laboratory protocols. The effect of the sample matrix on the target analytes could not be determined.

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	4/4/2017 07:00		4/27/2017
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	4/4/2017 07:00		5/1/2017
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	4/4/2017 07:00		5/1/2017
1010	Barium	200.7	2	mg/L	0.10	ND	1	4/4/2017 07:00		4/27/2017
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	4/4/2017 07:00		4/27/2017
1079	Boron	200.7	--	mg/L	0.10	ND	1	4/4/2017 07:00		4/27/2017
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	4/4/2017 07:00		4/27/2017
1016	Calcium	200.7	--	mg/L	2.0	ND	1	4/4/2017 07:00		4/27/2017
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	4/4/2017 07:00		4/27/2017
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	4/4/2017 07:00		4/27/2017
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	4/4/2017 07:00		4/27/2017
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	4/4/2017 07:00		5/1/2017
1031	Magnesium	200.7	--	mg/L	0.10	0.14	1	4/4/2017 07:00		4/27/2017
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	4/4/2017 07:00		4/27/2017
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	4/4/2017 07:00		5/1/2017
1036	Nickel	200.7	--	mg/L	0.005	ND	1	4/4/2017 07:00		4/27/2017
1042	Potassium	200.7	--	mg/L	1.0	ND	1	4/4/2017 07:00		4/27/2017

National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166

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

ANALYTICAL REPORTS

SAMPLE CODE: 368980

5/3/2017

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	4/4/2017 07:00		5/1/2017
1050	Silver	200.7	0.10	mg/L	0.002	ND	1	4/4/2017 07:00		4/27/2017
1052	Sodium	200.7	--	mg/L	1	ND	1	4/4/2017 07:00		4/27/2017
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	4/4/2017 07:00		5/1/2017
4009	Uranium	200.8	0.030	mg/L	0.001	ND	1	4/4/2017 07:00		5/1/2017
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	4/4/2017 07:00		4/27/2017
Physical Factors										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND	1	4/4/2017 07:00		4/14/2017
1905	Apparent Color	2120B	15	CU	3	ND	Q	1	4/4/2017 07:00	4/6/2017 14:30
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	4/4/2017 07:00		4/14/2017
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND	1	4/4/2017 07:00		4/14/2017
1910	Corrosivity	2330B	--	SI		-5.9	R2	1	4/4/2017 07:00	5/1/2017
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	Q	1	4/4/2017 07:00	4/6/2017 10:10
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole										
1915	Hardness (as CaCO3)	2340C	--	mg/L	10	ND	1	4/4/2017 07:00		4/28/2017
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND	1	4/4/2017 07:00		4/14/2017
1920	Odor Threshold	2150B	3	ton	1	ND	Q	1	4/4/2017 07:00	4/6/2017 12:40
1925	pH	150.1	6.5-8.5	pH Units		6.5	1	4/4/2017 07:00		4/6/2013 12:50
4254	pH Temperature	150.1	--	Deg, C		11	1	4/4/2017 07:00		4/6/2013 12:50
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	15	1	4/4/2017 07:00		4/7/2017
1930	Total Dissolved Solids	2540C	500	mg/L	5	6	1	4/4/2017 07:00		4/8/2017
0100	Turbidity	2130B	1	NTU	0.1	ND	Q	1	4/4/2017 07:00	4/6/2017 13:40
Inorganic Analytes - Other										
1004	Bromide	300.1	--	mg/L	0.005	0.005	1	4/4/2017 07:00		4/11/2017
1017	Chloride	300.0	250	mg/L	1.0	1.2	1	4/4/2017 07:00		4/6/2017 15:50
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	4/4/2017 07:00		4/6/2017 15:50
1040	Nitrate as N	300.0	10	mg/L	0.05	0.15	Q	1	4/4/2017 07:00	4/6/2017 15:50
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	Q	1	4/4/2017 07:00	4/6/2017 15:50
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	Q	1	4/4/2017 07:00	4/6/2017 15:50
1055	Sulfate	300.0	250	mg/L	5.0	ND	1	4/4/2017 07:00		4/6/2017 15:50
Organic Analytes - Trihalomethanes										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017

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

ANALYTICAL REPORTS

SAMPLE CODE: 368980

5/3/2017

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	1	4/4/2017 07:00		4/12/2017
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017

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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: 368980

5/3/2017

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	4/4/2017 07:00		4/12/2017
2998	Propylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	4/4/2017 07:00		4/12/2017
Organic Analytes - Others										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	4/4/2017 07:00	4/12/2017	4/12/2017
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	4/4/2017 07:00	4/12/2017	4/12/2017
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2356	Aldrin	505	--	mg/L	0.00007	ND	J.RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2625	Bentazon	515.4	--	ug/L	1	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2959	Chlordane	505	0.002	mg/L	0.0001	ND	J.RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2031	Dalapon	515.4	200	ug/L	1	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2440	Dicamba	515.4	--	ug/L	1	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2933	Dichloran	505	--	mg/L	0.001	ND	J.RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2070	Dieldrin	505	--	mg/L	0.00002	ND	J.RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2032	Diquat	549.2	20	ug/L	0.4	ND	1	4/4/2017 07:00	4/10/2017	4/12/2017
2033	Endothall	548.1	100	ug/L	9	ND	1	4/4/2017 07:00	4/10/2017	4/17/2017

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ANALYTICAL REPORTS

SAMPLE CODE: 368980

5/3/2017

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2005	Endrin	525.2	2	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2034	Glyphosate	547	700	ug/L	6	ND	1	4/4/2017 07:00		4/11/2017
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2010	Lindane	505	0.0002	mg/L	0.00002	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2626	Molinate	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	4/4/2017 07:00		4/7/2017
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2040	Picloram	515.4	500	ug/L	0.1	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	4/4/2017 07:00	4/10/2017	4/19/2017
2037	Simazine	525.2	4	ug/L	0.1	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	4/4/2017 07:00	4/13/2017	4/20/2017
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2 1	4/4/2017 07:00		4/12/2017
2020	Toxaphene	505	0.003	mg/L	0.001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017
2055	Trifluralin	505	--	mg/L	0.001	ND	J,RN 1	4/4/2017 07:00	4/10/2017	4/10/2017

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

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

J: This value should be considered an estimate.

RN: Please see Report Notes for qualifier detail.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

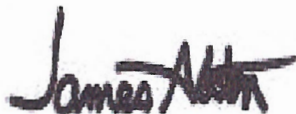
SAMPLE CODE: 368980

5/3/2017

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

These test results may be used for compliance purpose as required.

(1) DUE TO THE LIMITATION OF EPA METHOD 524.2, m AND p ISOMERS OF XYLENE ARE REPORTED AS AGGREGATE.



James Abston, Operations Manager

Analyst	Test ^s
DD	200.7,200.8,2330B
PC	2320B,2120B,5540C,2340C,2150B,150.1,2510B,2130B
CF	2540C
SG	300.1,300.0
SB	524.2 THMs,524.2,531.2,549.2,547
JPT	504.1,515.4,505
JF	525.2,548.1
DHG	420.4

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Laboratory ID: CT:PH-0745,
NY:11467

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

ANALYTICAL REPORTS

SAMPLE CODE: 368979

4/12/2017

Customer: ISBRE Water AS & NGWAS
Jarand Ronjom
PO Box 3
N-5731 Ulvik
Ulvik 5731
Norway

Source: Isbre Kilden
Sample Temperature: 4-5C

Date/Time Received: 4/6/2017 10:25

Collected by: I. Polden

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, 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:

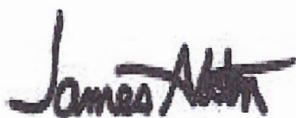
Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
Microbiologicals										
3114	E. Coli	9223B	1	MPN/100 mL	1	ND	Q	1	4/4/2017 07:00	4/6/2017 13:10
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	Q	1	4/4/2017 07:00	4/6/2017 12:53
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	Q	1	4/4/2017 07:00	4/6/2017 13:10

Qualifiers:

Q: Sample analyzed beyond the accepted holding time.

These test results may be used for compliance purpose as required.

Analyst	Tests
GK	9223B, 9215B



James Abston, Operations 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.

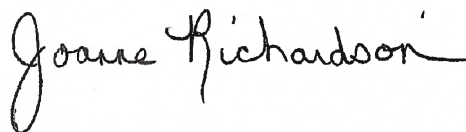
Pace Project Number:
10384657

Report Prepared Date:
April 21, 2017

Product Source

Sample ID: 368980
Source Name: Isbre Kilden
Source Location: Ulvik Norway
PWS ID: N/A
Laboratory Sample ID: 10384657001
Date Sampled: 04/04/2017 @ 13:00
Date Received: 04/12/2017 @ 09:30

This report has been reviewed by:



April 21, 2017

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, Inc.
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	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

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

Page 1 of 1

10384657

CLIENT/COMPANY NAME:			COLLECTION		SAMPLE #	SAMPLE SITE DESCRIPTION	TYPES OF SAMPLES: DRINKING WATER = D SOIL SAMPLE = S GROUND WATER = G SLUDGE/WASTE = W POOL WATER = P OTHER TYPE = O	# OF CONTAINERS	TEST(S) REQUESTED PER SAMPLE (X)
CLIENT COMMENTS:		DATE	TIME						
1		4.5.17	11:00	3089767	2080144 (no other pw)	DRINKING WATER = D GROUND WATER = G POOL WATER = P OTHER TYPE = O	2	X	
		4.4.17	13:00	3089780	2089360				2
2									
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100									

See instructions on reverse side →

1-800-458-3330

Beverage - Source Water

Order Number: 2089360 368980

Order Date: 02/14/2017

Sample Number:



Product: 50 WODDBP

Paid: No Method:

P.O.:

TSR: SBW

Ulvik

5731

jr@lsbwater.no

* Date Sampled: 04/04/17 NORWAY
Time Sampled: 13:00 Please Use Military Time, e.g. 3:00pm = 15:00

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

Source Water Information:

PWS ID# (if applicable):

Source Name: 15BRE KILDER

City & State: CLSA, N-5730 ULVIK
(If Different than Above)

Sample Collected By: [Signature]
(Signature)

Sample Collected By: INGEBRIGT ROLDEN
(Please Print)

Sample Temperature: 4-5°C Field pH:

Measured at Source By: INGEBRIGT ROLDEN

Form Completed By: INGEBRIGT ROLDEN

Additional Comments:

RADON - 44/63 W

* Converts to 4/4/17 @ 07:00 our time

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

For Laboratory Use ONLY

Lab Accounting Information:

Payment \$: _____

Check #: _____

Lab Comments/Special Instructions:

2017 Spring Source Annual

[Signature]

State Forms:

CT/NY

5°C

Lab Sample Information:

Date Received: APR 06, 2017

Time Received: 10:25

Received By: [Signature]

☐ Sample receipt criteria checked & acceptable.

☒ Deviations from acceptable sample receipt criteria noted on PSA form.

PSA [Signature]

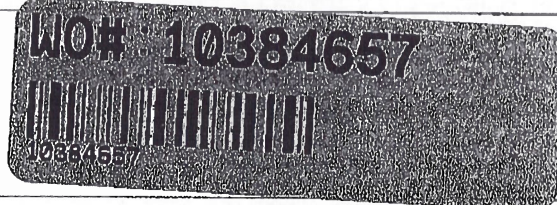
	Document Name:	Document Revised: 19Dec2016
	Sample Condition Upon Receipt Form	Page 1 of 2
	Document No.: F-MN-L-213-rev.20	Issuing Authority: Pace Minnesota Quality Office

Sample Condition
Upon Receipt

Client Name:

Project #:

NTL



Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client

☐ Commercial ☐ Pace ☐ Speedee ☐ Other:

Tracking Number: 12 AIV 931 01 6777 1391

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: Foam

Temp Blank? ☐ Yes ☒ No

Thermometer ☒ 151401163
Used: ☐ 151401164

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 2.7 Cooler Temp Corrected (°C): 2.9

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Correction Factor: 10.2

Date and Initials of Person Examining Contents: BC 4-12-17

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?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used?	☒ Yes ☐ No	9.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☐ Yes ☒ No	12. No date / time on Label
Includes Date/Time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☒ Yes ☐ No ☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Joanne Richardson

Date: 4-12-17

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).



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

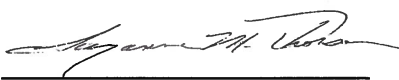
Tel: 612-607-1700
Fax: 612-607-6444

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

Sample ID.....368980 Date Collected.....04/04/2017 Spike.....200 pg
Client..... National Testing Laborato Date Received.....04/12/2017 IS Spike.....2000 pg
Lab Sample ID..... 10384657001 Date Extracted.....04/18/2017 CS Spike.....200 pg

	Sample 368980	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	--	--	114%	113%
pg Recovered	--	--	228pg/L	226pg/L
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			0.6%	
IS Recovery	74%	70%	73%	72%
pg Recovered	1484 pg/L	1410 pg/L	1458 pg/L	1441 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	88%	103%	91%	93%
pg Recovered	177 pg/L	205 pg/L	183 pg/L	187 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F170418B_12	F170418B_05	F170418B_03	F170418B_04
Analysis Date	04/19/2017	04/19/2017	04/19/2017	04/19/2017
Analysis Time	05:09	01:53	00:57	01:25
Analyst	SMT	SMT	SMT	SMT
Volume	0.954L	1.024L	1.031L	1.035L
Dilution	NA	NA	NA	NA
ICAL Date	01/11/2017	01/11/2017	01/11/2017	01/11/2017
CCAL Filename	F170418B_02	F170418B_02	F170418B_02	F170418B_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.....10384657

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2089360
Pace Project No.: 30215414

Sample: 368980 Lab ID: 30215414001 Collected: 04/04/17 13:00 Received: 04/07/17 10:00 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments: • SOURCE WATER; Isbre Kilden, Cisa, N-5730 Ulvik
• Sample Number: 368980
• Ulvik 5731
• Sample collected on 04/04/17 at 13:00 by Ingebrigt Polden
• Upon receipt at the laboratory, 3 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	1,031 ± 70.0 (59.1) C:NA T:NA	pCi/L	04/08/17 06:28	10043-92-2	
Gross Alpha	EPA 900.0	0.277 ± 0.548 (1.27) C:NA T:NA	pCi/L	04/28/17 08:14	12587-46-1	
Gross Beta	EPA 900.0	1.34 ± 0.831 (1.57) C:NA T:NA	pCi/L	04/28/17 08:14	12587-47-2	
Radium-226	EPA 903.1	0.496 ± 0.396 (0.224) C:NA T:90%	pCi/L	04/24/17 22:04	13982-63-3	
Radium-228	EPA 904.0	0.893 ± 0.337 (0.560) C:81% T:78%	pCi/L	04/24/17 16:36	15262-20-1	
Total Radium	Total Radium Calculation	1.39 ± 0.733 (0.784)	pCi/L	04/28/17 13:38	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

EMSL Order ID: 041709613
Customer ID: NTL178
Customer PO: 14630
Project ID:

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

Phone: (440) 449-2525
Fax: (Ema) il -only
Collected: 04/04/2017
Received: 04/07/2017
Analyzed: 04/16/2017

Proj: 2089360

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)				
368980	4/7/2017	100	1350	0.0786	None Detected	ND	0.17	<0.17	0.00 - 0.63
041709613-0001	10:15 AM								

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr
method hold time.

Analyst(s)

Matthew Dare

(1)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 04/16/2017 14:19:10

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 NY5 ELAP 10872, NJ DEP 03036, FL DOH E87975, PA ID# 68-00367



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

Report: 386448

Attn: Susan Henderson
6571 Wilson Mills Road
Cleveland, OH 44143

Priority: Standard Written

Status: Final

PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3672262	368980 Order #2089360	335.4	04/04/17 13:00	Client	04/12/17 09:45
3672272	368980 Order #2089360	331.0	04/04/17 13:00	Client	04/12/17 09:45

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.

 ASM

Authorized Signature

Title

04/27/2017

Date

Client Name: National Testing Laboratories

Report #: 386448

Client Name: National Testing Laboratories

Report #: 386448

Sampling Point: 368980 Order #2089360

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	< 0.05	ug/L	---	04/20/17 23:27	3672272
57-12-5	Cyanide, Total	335.4	0.1 &	0.02	< 0.02	mg/L	04/18/17 15:06	04/18/17 16:33	3672262

† 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.

STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

Food & Standards Division
165 Capital Ave., Hartford, CT 06106 Telephone (860) 713-7237 E-Mail: food.standards@po.state.ct.us
Internet: www.state.ct.us/dep
#368980

WATER ANALYSIS REQUIREMENT FORM

WATER BOTTLERS: Please provide the appropriate analytical values from a State of Connecticut approved public health laboratory in the spaces provided on this form. Contact the Connecticut Dept. Health, bureau of Laboratories at (860) 509-7389 for a list of approved laboratories. Submit documentation for all the analytical results you provide, for water samples taken within the past 6 months, as attachments to this questionnaire. Detection limits must be provided for each parameter tested. ALL the required information must be submitted or the application will be denied.

SODA & JUICE DRINK BOTTLERS: Submit raw/source lab results for Total Coliform. (THIS QUESTIONNAIRE NOT REQUIRED)

NAME OF BOTTLED WATER FIRM: _____

STREET: _____

CITY, STATE & COUNTRY: _____

COMPLETED BY: _____ PHONE: (____) _____

FIRM'S AUTHORIZED SIGNATURE: _____ DATE: _____

1. Source Approval:

Are copies of all current governmental certification for the sources being reviewed provided for Connecticut approval?

() Yes () No

2. Treatment:

If you treat the source(s) to meet potability standards for finished water, what treatment do you use?

NOTE: Include analytical results for treated water in the column "Finished Water Value"

DCP USE:

() Approved () Denied (see comments)

Comments: _____

Reviewed by: _____ Date: _____

FOR DPH USE:

() Approved () Denied (see comments)

Comments: _____

Reviewed by: _____ Date: _____

Pesticides and Herbicides, PCB, AND THEIR LIMITS

CONTAMINANT (1)	MAXIMUM CONTAMINANT LEVEL (MG/L.)	SOURCE WATER VALUE	FINISHED WATER VALUE
ALACHLOR	0.002	<0.0002	
ALDICARB	**	<0.001	
ALDICARB SULFOXIDE	**	<0.001	
ALDICARB SULFONE	**	<0.001	
ALDRIN	**	<0.00007	
ATRAZINE	0.003	<0.0001	
BENZO (A) PYRENE	0.0002	<0.0001	
BUTACHLOR	**	<0.0002	
CARBARYL	**	<0.001	
CARBOFURAN	0.04	<0.001	
CHLORDANE	0.002	<0.0001	
DALAPON	0.2	<0.001	
DI (2-ETHYLHEXYL) ADIPATE	0.4	<0.0002	
DI (2-ETHYLHEXYL) PHTHALATES	0.006	<0.0006	
DICAMBA	**	<0.001	
DIELDRIN	**	<0.00002	
DINOSEB	0.007	<0.0002	
DIQUAT	0.02	<0.001	
DIBROMOCHLOROPROPANE (DBCP)	0.0002	<0.00001	
2,4-D	0.07	<0.0001	
ETHYLENE DIBROMIDE (EDB)	0.00005	<0.00001	
ENDRIN	0.002	<0.0002	
ENDOTHALL	0.1***	<0.009	
GLYPHOSATE	0.7	<0.006	
HEPTACHLOR	0.0004*	<0.00001	
HEPTACHLOR EPOXIDE	0.0002*	<0.00001	
HEXACHLOROBENZENE	0.001	<0.0001	
HEXACHLOROCYCLOPENTADIENE	0.05	<0.0001	
3-HYDROXYCARBOFURAN	**	<0.001	
LINDANE	0.0002	<0.00002	

METHOXYCHLOR	<u>0.04</u>	<0.0001	
METHOMYL	<u>**</u>	<0.001	
METOLACHLOR	<u>**</u>	<0.0002	
METRIBUZIN	<u>**</u>	<0.0002	
OXAMYL (VYDATE)	<u>0.2</u>	<0.001	
PICLORAM	<u>0.5</u>	<0.0001	
PROPACHLOR	<u>**</u>	<0.0002	
SIMAZINE	<u>0.004</u>	<0.0001	
<u>2,3,7,8-TCDD (DIOXIN)</u>	<u>0.00000003***</u>	<5.0 pg/l	
POLYCHLORINATED BIPHENYLS (PCB)	<u>0.0005</u>	<0.0005	
PENTACHLOROPHENOL	<u>0.001</u>	<0.00004	
TOXAPHENE	<u>0.003</u>	<0.001	
<u>2,4,5-TP (SILVEX)</u>	<u>0.05</u>	<0.0002	

FOOTNOTES: THE METHOD DETECTION LIMITS FOR ALL PESTICIDES, HERBICIDES AND PCB SHALL CONFORM TO THOSE ACCEPTED AND APPROVED BY EPA. **MCL HAS NOT BEEN ESTABLISHED FOR THIS CHEMICAL. *IF MONITORING RESULTS IN DETECTION OF ONE OR MORE OF THESE CONTAMINANTS, THEN SUBSEQUENT MONITORING SHALL ANALYZE FOR ALL THESE CONTAMINANTS. *** DO NOT NEED TO TEST FOR THIS CHEMICAL AT THE PRESENT TIME.

ORGANIC CHEMICALS NA = NOT ANALYZED

CONTAMINANT	QUANTIFICATION LIMIT (UG/L)	MCL (UG/L)	SOURCE WATER VALUE	FINISHED WATER VALUE
Benzene	0.5	5	<0.5	
Bromobenzene	0.5		<0.5	
Bromomethane	0.5		<0.5	
n Butyl Benzene	0.5		<0.5	
Carbon Tetrachloride	0.5	5	<0.5	
Chlorobenzene	0.5	100	<0.5	
Chloroethane	0.5		<0.5	
Chloromethane	0.5		<0.5	
Ortho-Chlorotoluene	0.5		<0.5	
Para-Chlorotoluene	0.5		<0.5	
Dibromomethane	0.5		<0.5	
Meta-Dichlorobenzene	0.5		<0.5	
Ortho-Dichlorobenzene	0.5	600	<0.5	
Para-Dichlorobenzene	0.5	75	<0.5	
1,1 Dichloroethane	0.5		<0.5	

1,2 Dichloroethane (EDC)	0.5	5	<0.5	
1,1 Dichloroethylene	0.5	7	<0.5	
Cis 1,2 Dichloroethylene	0.5	70	<0.5	
Trans 1,2 Dichloroethylene	0.5	100	<0.5	
1,2 Dichloropropane	0.5	5	<0.5	
1,3 Dichloropropane	0.5		<0.5	
2,2 Dichloropropane	0.5		<0.5	
1,1 Dichloropropene	0.5		<0.5	
1,3 Dichloropropene	0.5		<0.5	
Ethylbenzene	0.5	700	<0.5	
Methylene Chloride	0.5	5	<0.5	
Methyl Tert Butyl Ether (MTBE)	2.0		<0.5	
Napthalene	0.5		<0.5	
n Propylbenzene	0.5		<0.5	
Styrene	0.5	100	<0.5	
1,1,1,2 Tetrachloroethane	0.5		<0.5	
1,1,2,2 Tetrachloroethane	0.5		<0.5	
Tetrachloroethylene	0.5	5	<0.5	
Toluene	0.5	1000	<0.5	
1,1,1 Trichloroethane	0.5	200	<0.5	
1,1,2 Trichloroethane	0.5	5	<0.5	
1,2,4 Trichlorobenzene	0.5	70	<0.5	
Trichloroethylene	0.5	5	<0.5	
1,2,3 Trichloropropane	0.5		<0.5	
1,2,4 Trimethyl Benzene	0.5		<0.5	
1,3,5 Trimethyl Benzene	0.5		<0.5	
Vinyl Chloride	0.5	2	<0.5	
Xylenes (Total)		10000	<0.5	
Meta Xylene	0.5		<0.5	
Ortho Xylene	0.5		<0.5	
Para Xylene	0.5		<0.5	
Total Trihalomethanes (TTHM)		100	<0.5	

1. Bromodichloromethane			<0.5	
2. Bromoform			<0.5	
3. Chlorodibromomethane	0.5		<0.5	
4. Chloroform			<0.5	

Contaminant	Quantification Limit (UG/L.)	MCL (UG/L.)	Source Water Value	Finished Water Value
Bromate		10	***	
Chlorite		1000	***	
Haloacetic Acids (HAA5)		60	***	
1. Monochloroacetic Acid			***	
2. Dichloroacetic Acid			***	
3. Trichloroacetic Acid			***	
4. Bromoacetic Acid			***	
5. Dibromoacetic Acid			***	

Disinfection Residuals	Maximum Residual Disinfectant Level		Source Water Value	Finished Water Value
	(MRDL) MG/L			
Chlorine	4.0 as CL2		***	
Chloramine	4.0 as CL2		***	
Chlorine Dioxide	0.8		***	

*** indicates no disinfection by ozonation or chlorination at the source, therefore, analysis was not required or performed.

BACTERIOLOGICAL/ PHYSICAL

CONTAMINANT	MAXIMUM CONTAMINANT LEVEL (MCL)	SOURCE WATER VALUE	FINISHED WATER VALUE
Coliform	Absence	0	
Color (Apparent)	15 Units	<3	
Turbidity	5 Units	<0.1	
Odor	Value of 2	<1	
pH (acceptable range)	6.4 to 8.5	6.5	

INORGANIC CHEMICALS (MCL mg/l)

CONTAMINANT	MCL (MG/L) (1)	SOURCE WATER VALUE	FINISHED WATER VALUE
Antimony	.006	<0.003	
Arsenic	.05	<0.002	
Asbestos	7.0 MFL (2)	<0.17	
Barium	2.0	<0.10	
Beryllium	.004	<0.001	
Cadmium	.005	<0.001	
Chromium	.1	<0.007	
Cyanide	.2	<0.02	
Fluoride	4.0	<0.10	
Lead	(4)	<0.001	

MBAS	0.5	<0.1	
Mercury	.002	<0.0002	
Nickel	.1	<0.005	
Nitrite Nitrogen	1.0 (as N)	<0.05	
Nitrate Nitrogen plus Nitrite	10.0 (as N)	0.15	
Selenium	.05	<0.002	
Silver	.05	<0.002	
Sulfate	(3)	<5.0	
Thallium	.002	<0.001	
Copper	(4)	<0.002	
Sodium (notification level)	28.0	<1	
Chloride	250.0	1.2	
Total Dissolved Solids	(3)	6	

RADIOLOGICAL

CONTAMINANT	MCL AS PCi/L	SOURCE WATER VALUE	FINISHED WATER VALUE
Radioactivity (natural) Gross Alpha		0.277+-0.548	
Combined Radium 226 & 228		1.39+-0.733	
Radioactivity (man-made) (6)			
Gross beta particle		1.34+-0.831	
Uranium		<0.001 mg/L	
Tritium	20000		
Strontium - 90	8		
Dose equivalent of tritium plus strontium - 90	4 millirem		

Foot Notes:

- (1) The method detection limits for inorganic chemicals shall conform to those accepted by the EPA.
- (2) MFL = Million fibers/liter
- (3) MCL has not been established for this chemical.
- (4) See section 19-13-B102(1)(6) Contact Conn. Dept. Heath Services, Water Supplies 860-509-7333
- (5) If gross alpha is over 5pCi/l, test for radium 226. If radium 226 is over 3pCi/l, test for radium 228.
- (6) Man-made radioactivity test only required for bottlers using surface water (reservoirs).