

National Testing Laboratories, Ltd556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585**ANALYTICAL REPORTS****SAMPLE CODE: 439312****2/15/2023****Customer:** Crystal Clear Water - IA
Ryan Heiken
3717 Delaware Avenue
Des Moines, IA 50313**Source:** DMWW
Source Type: Municipal Water
Brand Name: Crystal Clear Drinking Water
Production Code: 223181052
Container Size: 1 Gallon**Date/Time Received:** 11/18/2022 09:30**Collected by:** P. Gagle

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	12/27/2022 13:30		1/10/2023
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	12/27/2022 13:30		12/31/2022
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	12/27/2022 13:30		12/31/2022
1010	Barium	200.7	2	mg/L	0.10	ND	1	12/27/2022 13:30		1/10/2023
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	12/27/2022 13:30		1/10/2023
1079	Boron	200.7	--	mg/L	0.10	ND	1	12/27/2022 13:30		1/10/2023
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	12/27/2022 13:30		1/10/2023
1016	Calcium	200.7	--	mg/L	2.0	ND	1	12/27/2022 13:30		1/10/2023
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	12/27/2022 13:30		1/10/2023
1022	Copper	200.7	1.0	mg/L	0.002	ND	1	12/27/2022 13:30		1/10/2023
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	12/27/2022 13:30		1/10/2023
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	12/27/2022 13:30		12/31/2022
1031	Magnesium	200.7	--	mg/L	0.10	ND	1	12/27/2022 13:30		1/10/2023
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	12/27/2022 13:30		1/10/2023
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	12/27/2022 13:30		12/31/2022
1036	Nickel	200.7	--	mg/L	0.005	ND	1	12/27/2022 13:30		1/10/2023
1042	Potassium	200.7	--	mg/L	1.0	ND	1	12/27/2022 13:30		1/10/2023
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	12/27/2022 13:30		12/31/2022
1049	Silica	200.7	--	mg/L	0.05	0.21	1	12/27/2022 13:30		1/10/2023

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439312

2/15/2023

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	12/27/2022 13:30		1/10/2023
1052	Sodium	200.7	--	mg/L	1	ND	1	12/27/2022 13:30		1/10/2023
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	12/27/2022 13:30		12/31/2022
4009	Uranium	200.8	0.030	mg/L	0.001	ND	1	12/27/2022 13:30		12/31/2022
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	12/27/2022 13:30		1/10/2023
Physical Factors										
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	ND	1	12/27/2022 13:30		12/30/2022
1905	Apparent Color	2120B	15	CU	3	ND	1	12/27/2022 13:30		12/27/2022 16:15
1910	Corrosivity	2330B	--	SI		-5.47	R2 1	12/27/2022 13:30		1/10/2023
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	12/27/2022 13:30		12/28/2022 10:30
MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole										
1915	Hardness	2340B	--	mg/L	5.0	ND	1	12/27/2022 13:30		1/10/2023
1920	Odor Threshold	2150B	3	ton	1	ND	1	12/27/2022 13:30		12/27/2022 14:20
1925	pH	150.1	5-7	pH Units		5.9	1	12/27/2022 13:30		12/27/2022 14:40
4254	pH Temperature	150.1	--	Deg, C		24	1	12/27/2022 13:30		12/27/2022 14:40
1930	Total Dissolved Solids	2540C	500	mg/L	5	ND	1	12/27/2022 13:30		12/30/2022
0100	Turbidity	2130B	1	NTU	0.1	ND	1	12/27/2022 13:30		12/27/2022 16:00
Inorganic Analytes - Other										
1011	Bromate	300.1	0.010	mg/L	0.005	ND	1	12/27/2022 13:30		1/4/2023
1004	Bromide	300.1	--	mg/L	0.005	ND	1	12/27/2022 13:30		1/4/2023
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	12/27/2022 13:30		12/27/2022 15:37
1017	Chloride	300.0	250	mg/L	1.0	ND	1	12/27/2022 13:30		12/28/2022 13:40
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND	1	12/27/2022 13:30		12/27/2022 15:34
1008	Chlorine Dioxide as ClO2	4500ClO2D	0.8	mg/L	0.1	ND	1	12/27/2022 13:30		12/27/2022 15:40
1009	Chlorite	300.1	1.0	mg/L	0.005	ND	1	12/27/2022 13:30		1/4/2023
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	12/27/2022 13:30		12/28/2022 13:40
1040	Nitrate as N	300.0	10	mg/L	0.05	ND	1	12/27/2022 13:30		12/28/2022 13:40
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	12/27/2022 13:30		12/28/2022 13:40
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND	1	12/27/2022 13:30		12/28/2022 13:40
1055	Sulfate	300.0	250	mg/L	5.0	ND	1	12/27/2022 13:30		12/28/2022 13:40
Organic Analytes - Trihalomethanes										
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	0.0020	1	12/27/2022 13:30		12/29/2022
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	0.0072	1	12/27/2022 13:30		12/29/2022
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	0.0092	1	12/27/2022 13:30		12/29/2022
Organic Analytes - Haloacetic Acids										
2454	Dibromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439312

2/15/2023

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2451	Dichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023
2453	Monobromoacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023
2450	Monochloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023
2452	Trichloroacetic Acid	552.2 HAAs --		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023
2456	Total HAAs	552.2 HAAs 60		ug/L	1.0	ND	1	12/27/2022 13:30	12/29/2022	1/6/2023
Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439312

2/15/2023

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	R2 1	12/27/2022 13:30		12/29/2022
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	12/27/2022 13:30		12/29/2022
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	12/27/2022 13:30		12/29/2022
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	12/27/2022 13:30		12/29/2022
Organic Analytes - Others										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	12/27/2022 13:30	12/30/2022	12/30/2022
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	12/27/2022 13:30	12/30/2022	12/30/2022
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2356	Aldrin	505	--	mg/L	0.00007	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2625	Bentazon	515.4	--	ug/L	1	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.02	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2021	Carbaryl	531.2	--	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2046	Carbofuran	531.2	40	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2959	Chlordane	505	0.002	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439312

2/15/2023

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
2031	Dalapon	515.4	200	ug/L	1	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2440	Dicamba	515.4	--	ug/L	1	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2933	Dichloran	505	--	mg/L	0.001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2070	Dieldrin	505	--	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2041	Dinoseb	515.4	7	ug/L	0.2	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2032	Diquat	549.2	20	ug/L	0.4	ND	1	12/27/2022 13:30	12/28/2022	1/11/2023
2033	Endothall	548.1	100	ug/L	9	ND	1	12/27/2022 13:30	12/30/2022	1/9/2023
2005	Endrin	505	0.002	mg/L	0.00001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2034	Glyphosate	547	700	ug/L	6	ND	1	12/27/2022 13:30		12/29/2022
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2010	Lindane	505	0.0002	mg/L	0.00002	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2022	Methomyl	531.2	--	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2045	Metolachlor	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2595	Metribuzin	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2626	Molinate	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2036	Oxamyl	531.2	200	ug/L	1.0	ND	1	12/27/2022 13:30		1/4/2023
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2040	Picloram	515.4	500	ug/L	0.1	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2077	Propachlor	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	1	12/27/2022 13:30	1/4/2023	1/13/2023
2037	Simazine	525.2	4	ug/L	0.07	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2627	Thiobencarb	525.2	--	ug/L	0.2	ND	1	12/27/2022 13:30	1/2/2023	1/27/2023
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2 1	12/27/2022 13:30		12/29/2022
2020	Toxaphene	505	0.003	mg/L	0.001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023
2055	Trifluralin	505	--	mg/L	0.001	ND	1	12/27/2022 13:30	1/3/2023	1/3/2023

Qualifiers:

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

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439312

2/15/2023

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



Analyst	Tests
ZSC	200.7,2330B,2340B
DMJ	200.8
SP	2320B,2120B,5540C,2150B,150.1,2130B
CF	2540C
SG	300.1,300.0
DHG	4500CI-G,4500CI02D,420.4
SB	524.2 THMs,552.2 HAAs,524.2,504.1,515.4,531.2,505,549.2,547
JLF	525.2,548.1

Christine MacMillan, Technical Director

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

Laboratory ID: 0055

National Testing Laboratories, Ltd556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585**ANALYTICAL REPORTS****SAMPLE CODE: 439313****2/15/2023****Customer:** Crystal Clear Water - IA
Ryan Heiken
3717 Delaware Avenue
Des Moines, IA 50313**Source:** DMWW
Source Type: Municipal Water
Brand Name: Crystal Clear Drinking Water
Production Code: 223181052
Container Size: 1 Gallon**Date/Time Received:** 11/18/2022 09:30**Collected by:** P. Gagle

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	12/27/2022 13:30		12/27/2022 15:18
Total Coliform and E.coli were ABSENT in this sample.										
USP XXIII										
1003	Ammonia (as NH3)	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		2/3/2023
1016	Calcium	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		1/23/2023
1901	Carbon Dioxide (Free CO2)	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		1/27/2023
1017	Chloride	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		2/1/2023
	Heavy Metals (USP)	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		2/3/2023
	Oxidizables (USP)	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		1/27/2023
1925	pH	USP XXIII	--	pH Units		5.9	R2 1	12/27/2022 13:30		12/27/2022 14:40
1055	Sulfate	USP XXIII	--	Pass/Fail		Pass	R2 1	12/27/2022 13:30		1/23/2023
	Total Solids	USP XXIII	10	mg/L	10	ND	R2 1	12/27/2022 13:30		12/29/2022

Qualifiers:

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

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd

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

ANALYTICAL REPORTS

SAMPLE CODE: 439313

2/15/2023

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

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



Christine MacMillan, Technical Director

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.

National Testing Laboratories, Ltd556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585**ANALYTICAL REPORTS****SAMPLE CODE: 439311****2/15/2023****Customer:** Crystal Clear Water - IA
Ryan Heiken
3717 Delaware Avenue
Des Moines, IA 50313**Source:** DMWW
Source Type: Municipal Water
Brand Name: Crystal Clear Drinking Water
Production Code: 223181052
Container Size: 1 Gallon**Date/Time Received:** 11/18/2022 09:30**Collected by:** P. Gagle

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	12/27/2022 13:30		12/27/2022 15:58
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	12/27/2022 13:30		12/27/2022 15:35
Pour Plate Method, 35°C/48hr, Plate Count Agar										
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	12/27/2022 13:30		12/27/2022 15:58

Analyst	Tests
GK	9223B, 9215B



Sarah Buchanan, Project Manager

This report cannot be reproduced, except in full, without the written approval of National Testing Laboratories, Ltd.