



CERTIFICATE OF ANALYSIS

REPORTED TO Keremeos Irrigation District

Box 220

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

Keremeos, BC V0X 1N0

ATTENTION Jo Cottrill **WORK ORDER** 21J1798

PO NUMBER

2021-10-14 07:50 / 3.4°C **RECEIVED / TEMP REPORTED** 2021-10-21 16:51 **PROJECT** General Potability

No Number **PROJECT INFO COC NUMBER**

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you enjoy with fun and working our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

research, regulation and instrumentation, analytical centre the knowledge you BEFORE you need it, so you can stay

Through knowledge, are your technical

up to date and in the know.

If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO Client Service Representative



REPORTED TO Keremeos Irrigation Di PROJECT General Potability	strict			WORK ORDEF REPORTED		21J1798 2021-10-21 16:51	
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier	
Red Bridge 30hp (21J1798-01) Matrix: V	Vater Sampled: 2	2021-10-13 10:22					
Anions							
Chloride	3.55	AO ≤ 250	0.10	mg/L	2021-10-15		
Fluoride	< 0.10	MAC = 1.5		mg/L	2021-10-15		
Nitrate (as N)	0.115	MAC = 10	0.010		2021-10-15		
Nitrite (as N)	< 0.010	MAC = 1	0.010		2021-10-15		
Sulfate	13.9	AO ≤ 500		mg/L	2021-10-15		
Calculated Parameters							
Hardness, Total (as CaCO3)	83.2	None Required	0.500	ma/L	N/A		
Langelier Index	-0.2	N/A	-5.0		2021-10-21		
Solids, Total Dissolved	107	AO ≤ 500		mg/L	N/A		
General Parameters				g			
Alkalinity, Total (as CaCO3)	86.2	N/A	1.0	mg/L	2021-10-14		
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2021-10-14		
Alkalinity, Bicarbonate (as CaCO3)	86.2	N/A		mg/L	2021-10-14		
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2021-10-14		
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2021-10-14		
Colour, True	5.2	AO ≤ 15		CU	2021-10-18	HT1	
Conductivity (EC)	191	N/A		μS/cm	2021-10-14		
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	-	2021-10-15		
pH	7.88	7.0-10.5		pH units	2021-10-14	HT2	
Temperature, at pH	21.9	N/A		°C	2021-10-14	HT1	
Turbidity	< 0.10	OG < 1	0.10	NTU	2021-10-15		
Microbiological Parameters							
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2021-10-14		
E. coli	< 1	MAC = 0	1	CFU/100 mL	2021-10-14		
Total Metals							
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2021-10-21		
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2021-10-21		
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2021-10-21		
Barium, total	0.0272	MAC = 2	0.0050	mg/L	2021-10-21		
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-10-21		
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2021-10-21		
Calcium, total	25.2	None Required	0.20	mg/L	2021-10-21		
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-21		
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2021-10-21		
Copper, total	0.00103	MAC = 2	0.00040	mg/L	2021-10-21		
Iron, total	0.017	AO ≤ 0.3	0.010	mg/L	2021-10-21		
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-21		
Magnesium, total	4.90	None Required	0.010	mg/L	2021-10-21		
Manganese, total	< 0.00020	MAC = 0.12	0.00020		2021-10-21		
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2021-10-21		



REPORTED TO PROJECT	Keremeos Irrigation District General Potability				WORK ORDER REPORTED	21J1798 2021-10-2	21 16:51
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Red Bridge 30hp	(21J1798-01) Matrix: Water	Sampled:	2021-10-13 10:22, 0	Continued			
Total Metals, Conti	nued						
Molybdenum, tota	I	0.00153	N/A	0.00010	mg/L	2021-10-21	
Nickel, total		< 0.00040	N/A	0.00040	mg/L	2021-10-21	
Potassium, total		1.09	N/A	0.10	mg/L	2021-10-21	
Selenium, total		< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-21	
Sodium, total		4.91	AO ≤ 200	0.10	mg/L	2021-10-21	
Strontium, total		0.149	7	0.0010		2021-10-21	
Uranium, total		0.000429	MAC = 0.02	0.000020		2021-10-21	
Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2021-10-21	
West #2 (21J1798	3-02) Matrix: Water Sample	d: 2021-10-	-13 11:13				
Anions							
Chloride		3.20	AO ≤ 250		mg/L	2021-10-15	
Fluoride		0.10	MAC = 1.5		mg/L	2021-10-15	
Nitrate (as N)		0.496	MAC = 10	0.010		2021-10-15	
Nitrite (as N) Sulfate		< 0.010	MAC = 1	0.010	mg/L mg/L	2021-10-15	
Hardness, Total (a		114	None Required	0.500	mg/L	N/A 2021-10-21	
Solids, Total Disso	olved	144	AO ≤ 500		mg/L	N/A	
General Parameter					U		
Alkalinity, Total (as	s CaCO3)	112	N/A	1.0	mg/L	2021-10-14	
Alkalinity, Phenolp	ohthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-14	
Alkalinity, Bicarbo	nate (as CaCO3)	112	N/A	1.0	mg/L	2021-10-14	
Alkalinity, Carbona	ate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-14	
Alkalinity, Hydroxi	de (as CaCO3)	< 1.0	N/A	1.0	mg/L	2021-10-14	
Colour, True		< 5.0	AO ≤ 15	5.0	CU	2021-10-18	HT1
Conductivity (EC)		246	N/A	2.0	μS/cm	2021-10-14	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2021-10-15	
рН		7.98	7.0-10.5	0.10	pH units	2021-10-14	HT2
Temperature, at p	Н	22.0	N/A		°C	2021-10-14	HT1
Turbidity		< 0.10	OG < 1	0.10	NTU	2021-10-15	
Microbiological Pa	rameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2021-10-14	
E. coli		< 1	MAC = 0	1	CFU/100 mL	2021-10-14	
Total Metals							
Aluminum, total		< 0.0050	OG < 0.1	0.0050	mg/L	2021-10-21	
Antimony, total		< 0.00020	MAC = 0.006	0.00020	mg/L	2021-10-21	
Arsenic, total		0.00139	MAC = 0.01	0.00050	mg/L	2021-10-21	
							Page 3 of



REPORTED TO	Keremeos Irrigation District	WORK ORDER	21J1798
PROJECT	General Potability	REPORTED	2021-10-21 16:51

	Result	Guideline	RL	Units	Analyzed	Qualifier
West #2 (21J1798-02) Matrix: Water Sa	ampled: 2021-10-1	3 11:13, Continued				
Total Metals, Continued						
Barium, total	0.0338	MAC = 2	0.0050	mg/L	2021-10-21	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-10-21	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2021-10-21	
Calcium, total	34.4	None Required	0.20	mg/L	2021-10-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-21	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2021-10-21	
Copper, total	0.00092	MAC = 2	0.00040	mg/L	2021-10-21	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2021-10-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-21	
Magnesium, total	6.85	None Required	0.010	mg/L	2021-10-21	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2021-10-21	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2021-10-21	
Molybdenum, total	0.00176	N/A	0.00010	mg/L	2021-10-21	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2021-10-21	
Potassium, total	1.46	N/A	0.10	mg/L	2021-10-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-21	
Sodium, total	5.63	AO ≤ 200	0.10	mg/L	2021-10-21	
Strontium, total	0.207	7	0.0010	mg/L	2021-10-21	
Uranium, total	0.000591	MAC = 0.02	0.000020	mg/L	2021-10-21	
Zinc, total	< 0.0040	AO ≤ 5	0.000020 0.0040		2021-10-21 2021-10-21	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa	< 0.0040	AO ≤ 5				
<u> </u>	< 0.0040	AO ≤ 5	0.0040	mg/L		
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions	< 0.0040 mpled: 2021-10-1	AO ≤ 5 3 11:44	0.0040		2021-10-21	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride	< 0.0040 mpled: 2021-10-13	AO ≤ 5 3 11:44 AO ≤ 250	0.0040	mg/L mg/L mg/L	2021-10-21	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N)	< 0.0040 mpled: 2021-10-13 14.8 0.15	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5	0.0040 0.10 0.10	mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.0040 0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.0040 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 2021-10-15	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341 215 < 1.0	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A 2021-10-14 2021-10-14	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341 215 < 1.0 215	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A 2021-10-14 2021-10-14	
Zinc, total East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341 215 < 1.0	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A 2021-10-14 2021-10-14 2021-10-14 2021-10-14	
East #3 (21J1798-03) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	< 0.0040 mpled: 2021-10-13 14.8 0.15 1.39 < 0.010 79.9 253 0.9 341 215 < 1.0 215 < 1.0	AO ≤ 5 3 11:44 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2021-10-21 2021-10-15 2021-10-15 2021-10-15 2021-10-15 N/A 2021-10-21 N/A 2021-10-14 2021-10-14	HT1



REPORTED TO Keremeos Irrigation District

PROJECT General Potability

WORK ORDER REPORTED

21J1798

2021-10-21 16:51

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
East #3 (21J1798-03) Matrix: Water	Sampled: 2021-10-1	3 11:44, Continued				
General Parameters, Continued						
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2021-10-15	
pH	8.09	7.0-10.5	0.10	pH units	2021-10-14	HT2
Temperature, at pH	22.1	N/A		°C	2021-10-14	HT1
Turbidity	0.10	OG < 1	0.10	NTU	2021-10-15	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2021-10-14	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2021-10-14	
Total Metals						
Aluminum, total	0.0101	OG < 0.1	0.0050	mg/L	2021-10-21	
Antimony, total	0.00026	MAC = 0.006	0.00020	mg/L	2021-10-21	
Arsenic, total	0.00200	MAC = 0.01	0.00050	mg/L	2021-10-21	
Barium, total	0.0327	MAC = 2	0.0050	mg/L	2021-10-21	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-10-21	
Cadmium, total	0.000015	MAC = 0.005	0.000010	mg/L	2021-10-21	
Calcium, total	74.5	None Required	0.20	mg/L	2021-10-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-10-21	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2021-10-21	
Copper, total	0.00851	MAC = 2	0.00040	mg/L	2021-10-21	
Iron, total	0.033	AO ≤ 0.3	0.010	mg/L	2021-10-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-10-21	
Magnesium, total	16.2	None Required	0.010	mg/L	2021-10-21	
Manganese, total	0.00078	MAC = 0.12	0.00020	mg/L	2021-10-21	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2021-10-21	
Molybdenum, total	0.00341	N/A	0.00010	mg/L	2021-10-21	
Nickel, total	0.00088	N/A	0.00040	mg/L	2021-10-21	
Potassium, total	3.03	N/A	0.10	mg/L	2021-10-21	
Selenium, total	0.00154	MAC = 0.05	0.00050	mg/L	2021-10-21	
Sodium, total	15.0	AO ≤ 200	0.10	mg/L	2021-10-21	
Strontium, total	0.518	7	0.0010	mg/L	2021-10-21	
Uranium, total	0.00246	MAC = 0.02	0.000020	mg/L	2021-10-21	
Zinc, total	0.0159	AO ≤ 5	0.0040	mg/L	2021-10-21	

Sample Qualifiers:

HT1 The sample was prepared and/or analyzed past the recommended holding time.

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Keremeos Irrigation District

PROJECT General Potability

WORK ORDER REPORTED

21J1798

2021-10-21 16:51

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperomet	ry ✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2017)	Calculation		N/A
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2017)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CFU/100 mL Colony Forming Units per 100 millilitres

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic $\mu S/cm$ Microsiemens per centimetre
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Keremeos Irrigation District

PROJECT General Potability

WORK ORDER
REPORTED

21J1798

2021-10-21 16:51

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:teamcaro@caro.ca

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