

## CERTIFICATE OF ANALYSIS

**REPORTED TO** Keremeos Irrigation District  
712 6th Ave, Box 220  
Keremeos, BC V0X 1N0

**ATTENTION** Jo Cottrill

**PO NUMBER**

**PROJECT** General Potability

**PROJECT INFO**

**WORK ORDER** 24E2988

**RECEIVED / TEMP** 2024-05-23 07:57 / 8.7°C

**REPORTED** 2024-06-05 14:32

**COC NUMBER** No 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*



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.

#### *We've Got Chemistry*



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

#### *Ahead of the Curve*



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If you have any questions or concerns, please contact me at [TeamCaro@caro.ca](mailto:TeamCaro@caro.ca)

### Authorized By:

Team CARO  
Client Service Representative

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# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**#5 East Station (24E2988-01) | Matrix: Water | Sampled: 2024-05-22 10:25**

**Anions**

Chloride	7.58	AO ≤ 250	0.10	mg/L	2024-05-24	
Fluoride	0.17	MAC = 1.5	0.10	mg/L	2024-05-24	
Nitrate (as N)	1.57	MAC = 10	0.010	mg/L	2024-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-05-24	
Sulfate	91.4	AO ≤ 500	1.0	mg/L	2024-05-24	

**Calculated Parameters**

Hardness, Total (as CaCO3)	290	None Required	0.500	mg/L	N/A	
Langelier Index	0.4	N/A	-5.0		2024-05-30	CT6
Solids, Total Dissolved	346	AO ≤ 500	2.00	mg/L	N/A	

**General Parameters**

Alkalinity, Total (as CaCO3)	193	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Bicarbonate (as CaCO3)	193	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-05-25	
Conductivity (EC)	594	N/A	2.0	µS/cm	2024-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-05-27	
pH	7.80	7.0-10.5	0.10	pH units	2024-05-28	HT2
Temperature, at pH	21.2	N/A		°C	2024-05-28	HT2
Turbidity	0.12	OG < 1	0.10	NTU	2024-05-25	

**Microbiological Parameters**

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-05-23	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-05-23	

**Pesticides, Herbicides, and Fungicides**

Alachlor	< 0.100	N/A	0.100	µg/L	2024-06-05	
Aldrin	< 0.006	N/A	0.006	µg/L	2024-06-05	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2024-06-05	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2024-06-05	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2024-06-05	
beta-BHC	< 0.050	N/A	0.050	µg/L	2024-06-05	
delta-BHC	< 0.050	N/A	0.050	µg/L	2024-06-05	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2024-06-05	
Bromacil	< 0.100	N/A	0.100	µg/L	2024-06-05	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2024-06-05	
Butachlor	< 0.020	N/A	0.020	µg/L	2024-06-05	
Captan	< 0.100	N/A	0.100	µg/L	2024-06-05	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2024-06-05	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2024-06-05	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2024-06-05	



# TEST RESULTS

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General Potability

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2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**#5 East Station (24E2988-01) | Matrix: Water | Sampled: 2024-05-22 10:25, Continued**

**Pesticides, Herbicides, and Fungicides, Continued**

Cyanazine	< 0.100	N/A	0.100	µg/L	2024-06-05	
DDT, Total	< 0.010	N/A	0.010	µg/L	2024-06-05	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2024-06-05	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2024-06-05	
Dieldrin	< 0.010	N/A	0.010	µg/L	2024-06-05	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2024-06-05	
Disulfoton	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2024-06-05	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2024-06-05	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2024-06-05	
Endrin	< 0.020	N/A	0.020	µg/L	2024-06-05	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2024-06-05	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2024-06-05	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2024-06-05	
Heptachlor	< 0.010	N/A	0.010	µg/L	2024-06-05	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2024-06-05	
Linuron	< 0.050	N/A	0.050	µg/L	2024-06-05	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2024-06-05	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2024-06-05	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2024-06-05	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2024-06-05	
Parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2024-06-05	
Permethrin	< 0.010	N/A	0.010	µg/L	2024-06-05	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2024-06-05	
Prometon	< 0.300	N/A	0.300	µg/L	2024-06-05	
Prometryne	< 0.100	N/A	0.100	µg/L	2024-06-05	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2024-06-05	
Sulfotep	< 0.100	N/A	0.100	µg/L	2024-06-05	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2024-06-05	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2024-06-05	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2024-06-05	
Triallate	< 0.100	N/A	0.100	µg/L	2024-06-05	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2024-06-05	
Surrogate: Tributyl Phosphate	81		50-140	%	2024-06-05	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	75		50-140	%	2024-06-05	

**Total Metals**

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-05-30	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-05-30	



# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>#5 East Station (24E2988-01)   Matrix: Water   Sampled: 2024-05-22 10:25, Continued</b>					
<i>Total Metals, Continued</i>					
Arsenic, total	0.00236	MAC = 0.01	0.00050 mg/L	2024-05-30	
Barium, total	0.0319	MAC = 2	0.0050 mg/L	2024-05-30	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2024-05-30	
Cadmium, total	0.000012	MAC = 0.007	0.000010 mg/L	2024-05-30	
Calcium, total	89.3	None Required	0.20 mg/L	2024-05-30	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2024-05-30	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2024-05-30	
Copper, total	0.00887	MAC = 2	0.00040 mg/L	2024-05-30	
Iron, total	< 0.010	AO ≤ 0.3	0.010 mg/L	2024-05-30	
Lead, total	0.00044	MAC = 0.005	0.00020 mg/L	2024-05-30	
Magnesium, total	16.1	None Required	0.010 mg/L	2024-05-30	
Manganese, total	< 0.00020	MAC = 0.12	0.00020 mg/L	2024-05-30	
Mercury, total	< 0.000040	MAC = 0.001	0.000040 mg/L	2024-05-30	HG1
Molybdenum, total	0.00314	N/A	0.00010 mg/L	2024-05-30	
Nickel, total	< 0.00040	N/A	0.00040 mg/L	2024-05-30	
Potassium, total	3.12	N/A	0.10 mg/L	2024-05-30	
Selenium, total	0.00139	MAC = 0.05	0.00050 mg/L	2024-05-30	
Sodium, total	14.0	AO ≤ 200	0.10 mg/L	2024-05-30	
Strontium, total	0.555	MAC = 7	0.0010 mg/L	2024-05-30	
Uranium, total	0.00245	MAC = 0.02	0.000020 mg/L	2024-05-30	
Zinc, total	0.0098	AO ≤ 5	0.0040 mg/L	2024-05-30	

**10 Hp Red Bridge (24E2988-02) | Matrix: Water | Sampled: 2024-05-22 10:45**

**Anions**

Chloride	4.01	AO ≤ 250	0.10 mg/L	2024-05-24	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2024-05-24	
Nitrate (as N)	0.184	MAC = 10	0.010 mg/L	2024-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2024-05-24	
Sulfate	17.8	AO ≤ 500	1.0 mg/L	2024-05-24	

**Calculated Parameters**

Hardness, Total (as CaCO3)	107	None Required	0.500 mg/L	N/A	
Langelier Index	-1.0	N/A	-5.0	2024-05-30	CT6
Solids, Total Dissolved	123	AO ≤ 500	1.00 mg/L	N/A	

**General Parameters**

Alkalinity, Total (as CaCO3)	89.4	N/A	1.0 mg/L	2024-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-05-28	
Alkalinity, Bicarbonate (as CaCO3)	89.4	N/A	1.0 mg/L	2024-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2024-05-28	
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2024-05-25	



# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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**10 Hp Red Bridge (24E2988-02) | Matrix: Water | Sampled: 2024-05-22 10:45, Continued**

**General Parameters, Continued**

Conductivity (EC)	230	N/A	2.0 µS/cm	2024-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2024-05-27	
pH	7.11	7.0-10.5	0.10 pH units	2024-05-28	HT2
Temperature, at pH	21.0	N/A	°C	2024-05-28	HT2
Turbidity	0.10	OG < 1	0.10 NTU	2024-05-25	

**Microbiological Parameters**

Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2024-05-23	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2024-05-23	

**Pesticides, Herbicides, and Fungicides**

Alachlor	< 0.100	N/A	0.100 µg/L	2024-06-05	
Aldrin	< 0.006	N/A	0.006 µg/L	2024-06-05	
Atrazine and metabolites	< 0.100	MAC = 5	0.100 µg/L	2024-06-05	
Azinphos-methyl	< 0.200	MAC = 20	0.200 µg/L	2024-06-05	
alpha-BHC	< 0.010	N/A	0.010 µg/L	2024-06-05	
beta-BHC	< 0.050	N/A	0.050 µg/L	2024-06-05	
delta-BHC	< 0.050	N/A	0.050 µg/L	2024-06-05	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2024-06-05	
Bromacil	< 0.100	N/A	0.100 µg/L	2024-06-05	
Bromoxynil	< 0.200	MAC = 30	0.200 µg/L	2024-06-05	
Butachlor	< 0.020	N/A	0.020 µg/L	2024-06-05	
Captan	< 0.100	N/A	0.100 µg/L	2024-06-05	
Chlordane (cis + trans)	< 0.050	N/A	0.050 µg/L	2024-06-05	
Chlorothalonil	< 0.050	N/A	0.050 µg/L	2024-06-05	
Chlorpyrifos	< 0.010	MAC = 90	0.010 µg/L	2024-06-05	
Cyanazine	< 0.100	N/A	0.100 µg/L	2024-06-05	
DDT, Total	0.013	N/A	0.010 µg/L	2024-06-05	
Deltamethrin	< 0.100	N/A	0.100 µg/L	2024-06-05	
Diazinon	< 0.020	MAC = 20	0.020 µg/L	2024-06-05	
Dichlorvos	< 0.100	N/A	0.100 µg/L	2024-06-05	
Diclofop-methyl	< 0.100	MAC = 9	0.100 µg/L	2024-06-05	
Dieldrin	< 0.010	N/A	0.010 µg/L	2024-06-05	
Dimethoate	< 0.200	MAC = 20	0.200 µg/L	2024-06-05	
Disulfoton	< 0.100	N/A	0.100 µg/L	2024-06-05	
Diuron	< 0.200	MAC = 150	0.200 µg/L	2024-06-05	
Endosulfan I + II	< 0.010	N/A	0.010 µg/L	2024-06-05	
Endosulfan sulfate	< 0.050	N/A	0.050 µg/L	2024-06-05	
Endrin	< 0.020	N/A	0.020 µg/L	2024-06-05	
Endrin aldehyde	< 0.020	N/A	0.020 µg/L	2024-06-05	
Endrin ketone	< 0.020	N/A	0.020 µg/L	2024-06-05	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100 µg/L	2024-06-05	
Heptachlor	< 0.010	N/A	0.010 µg/L	2024-06-05	
Heptachlor epoxide	< 0.010	N/A	0.010 µg/L	2024-06-05	



# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**10 Hp Red Bridge (24E2988-02) | Matrix: Water | Sampled: 2024-05-22 10:45, Continued**

*Pesticides, Herbicides, and Fungicides, Continued*

Linuron	< 0.050	N/A	0.050	µg/L	2024-06-05	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2024-06-05	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2024-06-05	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2024-06-05	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2024-06-05	
Parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2024-06-05	
Permethrin	< 0.010	N/A	0.010	µg/L	2024-06-05	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2024-06-05	
Prometon	< 0.300	N/A	0.300	µg/L	2024-06-05	
Prometryne	< 0.100	N/A	0.100	µg/L	2024-06-05	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2024-06-05	
Sulfotep	< 0.100	N/A	0.100	µg/L	2024-06-05	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2024-06-05	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2024-06-05	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2024-06-05	
Triallate	< 0.100	N/A	0.100	µg/L	2024-06-05	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2024-06-05	
<i>Surrogate: Tributyl Phosphate</i>	79		50-140	%	2024-06-05	
<i>Surrogate: 4-chloro-3-nitrobenzotrifluoride</i>	76		50-140	%	2024-06-05	

**Total Metals**

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-05-30	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-05-30	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-05-30	
Barium, total	<b>0.0324</b>	MAC = 2	0.0050	mg/L	2024-05-30	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-05-30	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-05-30	
Calcium, total	<b>34.2</b>	None Required	0.20	mg/L	2024-05-30	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-05-30	
Cobalt, total	<b>0.00012</b>	N/A	0.00010	mg/L	2024-05-30	
Copper, total	<b>0.00842</b>	MAC = 2	0.00040	mg/L	2024-05-30	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-05-30	
Lead, total	<b>0.00063</b>	MAC = 0.005	0.00020	mg/L	2024-05-30	
Magnesium, total	<b>5.28</b>	None Required	0.010	mg/L	2024-05-30	
Manganese, total	<b>0.00074</b>	MAC = 0.12	0.00020	mg/L	2024-05-30	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2024-05-30	HG1
Molybdenum, total	<b>0.00129</b>	N/A	0.00010	mg/L	2024-05-30	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-05-30	
Potassium, total	<b>1.12</b>	N/A	0.10	mg/L	2024-05-30	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-05-30	
Sodium, total	<b>4.84</b>	AO ≤ 200	0.10	mg/L	2024-05-30	



# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>10 Hp Red Bridge (24E2988-02)   Matrix: Water   Sampled: 2024-05-22 10:45, Continued</b>						
<i>Total Metals, Continued</i>						
Strontium, total	0.173	MAC = 7	0.0010	mg/L	2024-05-30	
Uranium, total	0.000618	MAC = 0.02	0.000020	mg/L	2024-05-30	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-05-30	

**#2 West Station (24E2988-03) | Matrix: Water | Sampled: 2024-05-22 11:05**

**Anions**

Chloride	3.34	AO ≤ 250	0.10	mg/L	2024-05-24	
Fluoride	0.12	MAC = 1.5	0.10	mg/L	2024-05-24	
Nitrate (as N)	0.430	MAC = 10	0.010	mg/L	2024-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-05-24	
Sulfate	22.3	AO ≤ 500	1.0	mg/L	2024-05-24	

**Calculated Parameters**

Hardness, Total (as CaCO3)	124	None Required	0.500	mg/L	N/A	
Langelier Index	-0.9	N/A	-5.0		2024-05-30	CT6
Solids, Total Dissolved	139	AO ≤ 500	1.00	mg/L	N/A	

**General Parameters**

Alkalinity, Total (as CaCO3)	98.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Bicarbonate (as CaCO3)	98.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-05-28	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-05-25	
Conductivity (EC)	259	N/A	2.0	µS/cm	2024-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-05-27	
pH	7.10	7.0-10.5	0.10	pH units	2024-05-28	HT2
Temperature, at pH	20.7	N/A		°C	2024-05-28	HT2
Turbidity	0.20	OG < 1	0.10	NTU	2024-05-25	

**Microbiological Parameters**

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-05-23	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-05-23	

**Pesticides, Herbicides, and Fungicides**

Alachlor	< 0.100	N/A	0.100	µg/L	2024-06-05	
Aldrin	< 0.006	N/A	0.006	µg/L	2024-06-05	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2024-06-05	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2024-06-05	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2024-06-05	
beta-BHC	< 0.050	N/A	0.050	µg/L	2024-06-05	
delta-BHC	< 0.050	N/A	0.050	µg/L	2024-06-05	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2024-06-05	



# TEST RESULTS

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**#2 West Station (24E2988-03) | Matrix: Water | Sampled: 2024-05-22 11:05, Continued**

*Pesticides, Herbicides, and Fungicides, Continued*

Bromacil	< 0.100	N/A	0.100	µg/L	2024-06-05	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2024-06-05	
Butachlor	< 0.020	N/A	0.020	µg/L	2024-06-05	
Captan	< 0.100	N/A	0.100	µg/L	2024-06-05	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2024-06-05	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2024-06-05	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2024-06-05	
Cyanazine	< 0.100	N/A	0.100	µg/L	2024-06-05	
DDT, Total	< 0.010	N/A	0.010	µg/L	2024-06-05	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2024-06-05	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2024-06-05	
Dieldrin	< 0.010	N/A	0.010	µg/L	2024-06-05	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2024-06-05	
Disulfoton	< 0.100	N/A	0.100	µg/L	2024-06-05	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2024-06-05	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2024-06-05	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2024-06-05	
Endrin	< 0.020	N/A	0.020	µg/L	2024-06-05	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2024-06-05	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2024-06-05	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2024-06-05	
Heptachlor	< 0.010	N/A	0.010	µg/L	2024-06-05	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2024-06-05	
Linuron	< 0.050	N/A	0.050	µg/L	2024-06-05	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2024-06-05	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2024-06-05	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2024-06-05	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2024-06-05	
Parathion	< 0.100	N/A	0.100	µg/L	2024-06-05	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2024-06-05	
Permethrin	< 0.010	N/A	0.010	µg/L	2024-06-05	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2024-06-05	
Prometon	< 0.300	N/A	0.300	µg/L	2024-06-05	
Prometryne	< 0.100	N/A	0.100	µg/L	2024-06-05	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2024-06-05	
Sulfotep	< 0.100	N/A	0.100	µg/L	2024-06-05	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2024-06-05	
Temphos (Abate)	< 0.500	N/A	0.500	µg/L	2024-06-05	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2024-06-05	
Triallate	< 0.100	N/A	0.100	µg/L	2024-06-05	





# TEST RESULTS

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General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**#2 West Station (24E2988-03) | Matrix: Water | Sampled: 2024-05-22 11:05, Continued**

*Pesticides, Herbicides, and Fungicides, Continued*

Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2024-06-05	
Surrogate: Tributyl Phosphate	76		50-140	%	2024-06-05	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	78		50-140	%	2024-06-05	

**Total Metals**

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-05-30	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-05-30	
Arsenic, total	<b>0.00116</b>	MAC = 0.01	0.00050	mg/L	2024-05-30	
Barium, total	<b>0.0336</b>	MAC = 2	0.0050	mg/L	2024-05-30	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-05-30	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-05-30	
Calcium, total	<b>39.4</b>	None Required	0.20	mg/L	2024-05-30	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-05-30	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-05-30	
Copper, total	<b>0.00214</b>	MAC = 2	0.00040	mg/L	2024-05-30	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-05-30	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-05-30	
Magnesium, total	<b>6.10</b>	None Required	0.010	mg/L	2024-05-30	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2024-05-30	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2024-05-30	HG1
Molybdenum, total	<b>0.00163</b>	N/A	0.00010	mg/L	2024-05-30	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-05-30	
Potassium, total	<b>1.43</b>	N/A	0.10	mg/L	2024-05-30	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-05-30	
Sodium, total	<b>5.16</b>	AO ≤ 200	0.10	mg/L	2024-05-30	
Strontium, total	<b>0.199</b>	MAC = 7	0.0010	mg/L	2024-05-30	
Uranium, total	<b>0.000581</b>	MAC = 0.02	0.000020	mg/L	2024-05-30	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-05-30	

**Sample Qualifiers:**

- CT6 Results were based on lab temperature & lab pH.
- HG1 Sample bottle and preservation submitted is not suitable for Mercury analysis and analyte stability may be affected.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



## APPENDIX 1: SUPPORTING INFORMATION

**REPORTED TO PROJECT** Keremeos Irrigation District  
General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		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 (2020)	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
µg/L	Micrograms per litre
µS/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



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General Potability

**WORK ORDER REPORTED** 24E2988  
2024-06-05 14:32

**General Comments:**

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