

ANALYTICAL REPORT

Client: Town of Killam
 Box 189,
 Killam, AB. T0B 2L0

Attention: Mark Skaar

KaizenLAB JOB #:	321832
DATE RECEIVED:	23-Mar-2022
DATE REPORTED:	29-Mar-2022
PROJECT ID:	Physical and Inorganic Chemical Parameters
LOCATION:	Killam Water Treatment Plant

KaizenLAB Sample #: 321832_001 **Sample ID:** Water Treatment Plant
Date Sampled: 22-Mar-2022 12:54 **Matrix:** Water

Parameter Description	Units	Result	Detection Limit
Routine Water Potability Analysis (Potability pkg #2)			
pH		7.1	
Electrical Conductivity (EC)	uS/cm	1640	1
Alkalinity parameters of water			
Alkalinity (total, as CaCO ₃)	mg/L	513.2	2.0
Alkalinity (phenolphthalein, as CaCO ₃)	mg/L	<2.0	2.0
Bicarbonate (as HCO ₃)	mg/L	625.7	2.5
Carbonate (as CO ₃)	mg/L	<1.5	1.5
Hydroxide (as OH)	mg/L	<0.5	0.5
Total Dissolved Solids (calculated)	mg/L	1167	10
Anions in Water by IC			
Fluoride	mg/L	0.46	0.10
Chloride	mg/L	9.02	0.50
Nitrite-N	mg/L	<0.005	0.005
Nitrate-N	mg/L	0.038	0.010
Nitrite-N + Nitrate-N	mg/L	0.038	0.015
Phosphate	mg/L	<0.10	0.10
Sulphate	mg/L	452.6	0.50
Bromide	mg/L	<0.10	0.10
Cations in Water by ICP-OES			
Dissolved Calcium	mg/L	95.7	0.1
Dissolved Magnesium	mg/L	43.5	0.1
Dissolved Potassium	mg/L	8.4	0.1
Dissolved Sodium	mg/L	243.9	0.1
Dissolved Iron	mg/L	<0.05	0.05
Dissolved Manganese	mg/L	<0.05	0.05
Hardness (calculated, as CaCO ₃)	mg/L	417.8	0.1