

**Analytical Report**

<b>Bill To:</b> County of Vermilion River #24	<b>Project:</b>	<b>Lot ID:</b> <b>994917</b>
<b>Report To:</b> County of Vermilion River #24	<b>ID:</b> Annual Samples	<b>Control Number:</b> B028028
Box 69	<b>Name:</b>	<b>Date Received:</b> Apr 1, 2014
Kitscoty, AB, Canada	<b>Location:</b>	<b>Date Reported:</b> Apr 7, 2014
T0B 2P0	<b>LSD:</b>	<b>Report Number:</b> 1906313
<b>Attn:</b> Darrell Stefanick	<b>P.O.:</b>	
<b>Sampled By:</b> Cory Cote	<b>Acct code:</b>	
<b>Company:</b> County Of Vermilion River		

<b>Reference Number</b>	994917-4
<b>Sample Date</b>	March 31, 2014
<b>Sample Time</b>	12:00
<b>Sample Location</b>	
<b>Sample Description</b>	Islay W.T.P.
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Inorganic Nonmetallic Parameters</b>					
Ammonium - N	mg/L	0.17	0.05		
Sulfide	Total mg/L	<0.002	0.002	0.05	Below AO
Organic Carbon	Total Nonpurgeable mg/L	3.6	0.5		
Chlorine	Total mg/L	1.2	0.1		
Chlorine	Free mg/L	0.2	0.1		
Chloramine	mg/L	1.0	0.2	3	Below MAC
Cyanide	Dissolved mg/L	<0.002	0.002	0.2	Below MAC
Bromate	Dissolved mg/L	<0.01	0.01	0.01	Below MAC
Hydrogen Sulfide	Calculated mg/L	<0.002			
<b>Metals Dissolved</b>					
Silicon	Dissolved mg/L	6.94	0.05		
Sulfur	Dissolved mg/L	61.6	0.3		
Mercury	Dissolved mg/L	<0.00001	0.00001		Below MAC
Aluminum	Dissolved mg/L	<0.002	0.002	0.1	Below OG
Antimony	Dissolved mg/L	<0.0002	0.0002	0.006	Below MAC
Arsenic	Dissolved mg/L	0.0004	0.0002	0.01	Below MAC
Barium	Dissolved mg/L	0.017	0.001	1	Below MAC
Beryllium	Dissolved mg/L	<0.0001	0.0001		
Bismuth	Dissolved mg/L	<0.0005	0.0005		
Boron	Dissolved mg/L	0.169	0.002	5	Below MAC
Cadmium	Dissolved mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Dissolved mg/L	<0.0005	0.0005	0.05	Below MAC
Cobalt	Dissolved mg/L	<0.0001	0.0001		
Copper	Dissolved mg/L	0.006	0.001	1	Below AO
Lead	Dissolved mg/L	<0.0001	0.0001	0.01	Below MAC
Lithium	Dissolved mg/L	0.074	0.001		
Molybdenum	Dissolved mg/L	0.001	0.001		
Nickel	Dissolved mg/L	<0.0005	0.0005		
Selenium	Dissolved mg/L	<0.0002	0.0002	0.01	Below MAC
Silver	Dissolved mg/L	0.000039	0.00001		
Strontium	Dissolved mg/L	0.851	0.001		
Thallium	Dissolved mg/L	<0.00005	0.00005		
Tin	Dissolved mg/L	<0.001	0.001		
Titanium	Dissolved mg/L	<0.0005	0.0005		
Uranium	Dissolved mg/L	<0.0005	0.0005	0.02	Below MAC
Vanadium	Dissolved mg/L	<0.0001	0.0001		



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Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Metals Dissolved - Continued</b>						
Zinc	Dissolved	mg/L	0.002	0.001	5	Below AO
Subsample	Field Filtered	Lab Filtered				
<b>Physical and Aggregate Properties</b>						
Colour	Apparent, Potable	Colour units	<5	5	15	Below AO
Turbidity		NTU	0.6	0.1	0.1	Above OG
<b>Routine Water</b>						
pH			8.21		6.5 - 8.5	Within AO
Temperature of observed pH		°C	17.0			
Electrical Conductivity		µS/cm at 25 C	1100	1		
Calcium	Dissolved	mg/L	78.4	0.2		
Magnesium	Dissolved	mg/L	27.4	0.2		
Sodium	Dissolved	mg/L	131	0.4	200	Below AO
Potassium	Dissolved	mg/L	4.6	0.4		
Iron	Dissolved	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved	mg/L	<0.005	0.005	0.05	Below AO
Chloride	Dissolved	mg/L	21.4	0.4	250	Below AO
Fluoride		mg/L	0.21	0.05	1.5	Below MAC
Nitrate - N		mg/L	0.85	0.01	10	Below MAC
Nitrite - N		mg/L	<0.005	0.005	1	Below MAC
Nitrate and Nitrite - N		mg/L	0.85	0.01	10	Below MAC
Sulfate (SO4)	Dissolved	mg/L	185	0.9	500	Below AO
Hydroxide		mg/L	<5	5		
Carbonate		mg/L	<6	6		
Bicarbonate		mg/L	492	5		
P-Alkalinity	as CaCO3	mg/L	<5	5		
T-Alkalinity	as CaCO3	mg/L	404	5		
Total Dissolved Solids	Calculated	mg/L	690	1	500	Above AO
Hardness	Dissolved as CaCO3	mg/L	308			
Ionic Balance	Dissolved	%	95			

Approved by:

Anthony Neumann, MSc  
Laboratory Operations Manager