

SIA sampling results for two sites sampled October 15 2016

Parameter	Units	Weir	SW-1	Water Quality Guidelines (approved and working) for the Protection of Aquatic Life WEIR HARDNESS		Water Quality Guidelines (approved and working) for the Protection of Aquatic Life BACKGROUND HARDNESS	
				Chronic	Acute	Chronic	Acute
EMS Site Number							
Sample Date		15-Oct-16	15-Oct-16	Chronic	Acute	Chronic	Acute
Depth / Duplicate							
Conductivity	µS/cm	520	443				
Turbidity	NTU	20.6	6.16		Change of 5		Change of 5
Total Suspended Solids	mg/L	3	<2	Change of 5	Change of 25	Change of 5	Change of 25
Hardness - Total	mg/L	226	179				
<b>Anions</b>							
Chloride -Dissolved	mg/L	29.4	29.3	150	600	150	600
Sulphate	mg/L	178	134	218		218	
<b>Total Metals</b>							
Aluminum	µg/L	828	172				
Antimony	µg/L	0.3	0.3		20		20
Arsenic	µg/L	<.05	<.05		5		5
Barium	µg/L	18	15	1000	5000	1000	5000
Beryllium	µg/L	<0.1	<0.1	5.3		5.3	
Bismuth	µg/L	<0.1	<0.1				
Boron	µg/L	42	36		1200		1200
Cadmium	µg/L	0.03	0.02				
Calcium	mg/L	77.2	60.6				
Chromium	µg/L	1.5	0.6		1		1
Cobalt	µg/L	0.66	0.49	4	110	4	110
Copper*	µg/L	2.9	1.8	9	23	2	7
Iron	µg/L	870	170		1000		1000
Lead*	µg/L	0.5	0.2	12	231	4.6	33.5
Magnesium	mg/L	11.2	9.81				
Manganese*	µg/L	36.4	25.2	1599	3031	800	1100
Molybdenum	µg/L	0.8	0.9	1000	2000	1000	2000

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Nickel	µg/L	3.4	2.1		150		25
Phosphorus	µg/L	40	<20				
Potassium	mg/L	1.43	1.4		373		373
Selenium	µg/L	0.7	0.7	2		2	
Silicon	µg/L	5900	4700				
Silver*	µg/L	0.06	<0.05	3	1.5	0.05	0.1
Sodium	mg/L	18.2	18				
Strontium	µg/L	244	193				
Sulfur	mg/L	72	53				
Thallium	µg/L	<0.02	<0.02		0.3		0.3
Tin	µg/L	<0.2	<0.2				
Titanium	µg/L	50	7		2000		2000
Uranium	µg/L	0.17	0.19		300		300
Vanadium	µg/L	3	1		6		6
Zinc*	µg/L	5	<4	110	135	7.5	33
<b>Dissolved Metals</b>							
Aluminum	µg/L	5	<5	50	100	50	100
Antimony	µg/L	0.3	0.3				
Arsenic	µg/L	<0.5	<0.5				
Barium	µg/L	14	14				
Beryllium	µg/L	<0.1	<0.1				
Bismuth	µg/L	<0.1	<0.1				
Boron	µg/L	33	33				
Cadmium*	µg/L	<0.01	0.01	0.39	1.36	0.06	0.09
Calcium	mg/L	73	55.7				
Chromium	µg/L	0.6	0.7				
Cobalt	µg/L	0.3	0.36				
Copper	µg/L	0.9	1.2				
Iron	µg/L	<10	<10		350		350

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Lead	µg/L	<0.1	<0.1				
Magnesium	mg/L	10.7	9.76				
Manganese	µg/L	23.3	19.6				
Molybdenum	µg/L	0.8	1				
Nickel	µg/L	2.1	1.8				
Phosphorus	µg/L	<20	<20				
Potassium	mg/L	1.47	1.5				
Selenium	µg/L	0.6	0.6				
Silicon	µg/L	4200	4500				
Silver	µg/L	<0.05	<0.05				
Sodium	mg/L	17.5	17.3				
Strontium	µg/L	245	195				
Sulfur	mg/L	71	55				
Thallium	µg/L	<0.02	<0.02				
Tin	µg/L	<0.2	<0.2				
Titanium	µg/L	<5	<5				
Uranium	µg/L	0.14	0.16				
Vanadium	µg/L	<1	<1				
Zinc	µg/L	<4	<4				

Above BC AHWQG

At BC AHWQG

Possible BC AHWQG exceedance