

SIA sampling results for two sites sampled October 16 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		16-Oct-16	16-Oct-16	Chronic	Acute	Chronic	Acute
Depth / Duplicate							
Conductivity	µS/cm	645	631				
Turbidity	NTU	15.4	3.39		Change of 5		Change of 5
Total Suspended Solids	mg/L	7	<2	Change of 5	Change of 25	Change of 5	Change of 25
Hardness - Total	mg/L	239	243				
Anions							
Chloride -Dissolved	mg/L	68.1	59.1	150	600	150	600
Sulphate	mg/L	167	167	218		218	
Total Metals							
Aluminum	µg/L	462	101				
Antimony	µg/L	0.5	0.4		20		20
Arsenic	µg/L	<0.5	<0.5		5		5
Barium	µg/L	20	22	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	37	39		1200		1200
Cadmium	µg/L	0.01	0.01				
Calcium	mg/L	76.6	79.2				
Chromium	µg/L	1	<0.5		1		1
Cobalt	µg/L	0.37	0.28	4	110	4	110
Copper*	µg/L	2.2	2	10	24	2	7
Iron	µg/L	540	110		1000		1000
Lead*	µg/L	0.3	0.2	13	248	4.6	33.5
Magnesium	mg/L	12.3	13.2				
Manganese*	µg/L	21.2	24	1657	3174	800	1100
Molybdenum	µg/L	0.9	1.5	1000	2000	1000	2000

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Nickel*	µg/L	2.5	1.8		150		25
Phosphorus	µg/L	30	<20				
Potassium	mg/L	1.78	1.93		373		373
Selenium	µg/L	<0.5	0.5	2		2	
Silicon	µg/L	4100	4300				
Silver*	µg/L	<0.05	<0.05	3	1.5	0.05	0.1
Sodium	mg/L	33400	31100				
Strontium	µg/L	268	269				
Sulfur	mg/L	53	56				
Thallium	µg/L	<0.02	<0.02		0.3		0.3
Tin	µg/L	<0.2	<0.2				
Titanium	µg/L	25	7		2000		2000
Uranium	µg/L	0.23	0.43		300		300
Vanadium	µg/L	2	1		6		6
Zinc*	µg/L	<4	<4	119	145	7.5	33
Dissolved Metals							
Aluminum	µg/L	<5	<5	50	100	50	100
Antimony	µg/L	0.4	0.4				
Arsenic	µg/L	<0.5	<0.5				
Barium	µg/L	17	21				
Beryllium	µg/L	<0.1	<0.1				
Bismuth	µg/L	<0.1	<0.1				
Boron	µg/L	37	38				
Cadmium*	µg/L	0.02	0.01	0.40	1.44	0.06	0.09
Calcium	mg/L	76	76.7				
Chromium	µg/L	0.9	0.7				
Cobalt	µg/L	0.11	0.18				
Copper	µg/L	1	1.4				
Iron	µg/L	<10	<10		350		350

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Lead	µg/L	<0.1	<0.1				
Magnesium	mg/L	12	12.6				
Manganese	µg/L	13.4	19.3				
Molybdenum	µg/L	1	1.5				
Nickel	µg/L	1.8	1.6				
Phosphorus	µg/L	<20	<20				
Potassium	mg/L	1.71	1.86				
Selenium	µg/L	<0.5	<0.5				
Silicon	µg/L	3300	4000				
Silver	µg/L	0.13	<0.05				
Sodium	mg/L	34.1	29.7				
Strontium	µg/L	266	258				
Sulfur	mg/L	54	53				
Thallium	µg/L	<0.02	<0.02				
Tin	µg/L	<0.2	<0.2				
Titanium	µg/L	<5	<5				
Uranium	µg/L	0.22	0.42				
Vanadium	µg/L	<1	<1				
Zinc	µg/L	<4	<4				

Above BC AHWQG

At BC AHWQG

Possible BC AHWQG exceedance