

SIA sampling results for two sites sampled October 20 2016

Parameter	Units	Weir	SW-1	Water Quality Guidelines (approved and working) for the Protection of Aquatic Life WEIR SITE		Water Quality Guidelines (approved and working) for the Protection of Aquatic Life SW-1	
				Chronic	Acute	Chronic	Acute
EMS Site Number							
Sample Date		20-Oct-16	20-Oct-16	Chronic	Acute	Chronic	Acute
Depth / Duplicate							
Conductivity	µS/cm	647	819				
Turbidity	NTU	82.7	11.9				Change of 5
Total Suspended Solids	mg/L	43	11	25**		change of 5	Change of 25
Hardness - Total	mg/L	193	281				
Anions							
Chloride -Dissolved	mg/L	74.1	96.2	150	600	150	600
Sulphate	mg/L	97.1	173	429		218	
Volatile Organic Compounds (Water)							
Benzene	mg/L	<0.0005	<0.0005		0.04		0.04
Ethylbenzene	mg/L	<0.001	<0.001		0.2		0.2
Methyl t-butyl ether (MTBE)	mg/L	<0.001	<0.001		3.4		3.4
Styrene	mg/L	<0.001	<0.001	0.072			
Toluene	mg/L	<0.001	<0.001		0.0005		0.0005
ortho-Xylene	mg/L						
meta- & para-Xylene	mg/L						
Xylenes	mg/L	<0.002	<0.002		0.030		0.030
Polycyclic Aromatic Hydrocarbons (Water)							
Acenaphthene	mg/L	<0.00005	<0.00005				
Acenaphthylene	mg/L	<0.0002	<0.0002				
Acridine	mg/L	<0.0001	<0.0001				
Anthracene	mg/L	<0.0001	<0.0001				

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Benz(a)anthracene	mg/L	<0.0001	<0.0001				
Benzo(a)pyrene	mg/L	<0.0001	<0.0001				
Benzo(b)fluoranthene	mg/L	<0.00005	<0.00005				
Benzo(g,h,i)perylene	mg/L	<0.00005	<0.00005				
Benzo(k)fluoranthene	mg/L	<0.00005	<0.00005				
Chrysene	mg/L	<0.00005	<0.00005				
Dibenz(a,h)anthracene	mg/L	<0.00005	<0.00005				
Fluoranthene	mg/L	<0.00003	<0.00003				
Fluorene	mg/L	<0.00005	<0.00005				
Indeno(1,2,3-c,d)pyrene	mg/L	<0.00005	<0.00005				
Naphthalene	mg/L	<0.0002	<0.0002		0.001		0.001
Phenanthrene	mg/L	<0.0001	<0.0001				
Pyrene	mg/L	<0.00002	<0.00002				
Quinoline	mg/L	<0.0001	<0.0001	0.00034		0.00034	

*Hardness dependent WQG

Detection Limits are above WQGs

Requires background hardness

Permit exceedance

** this is a permit limit requirement