

		SI No. 277 of 2009 and SI No. 77 of 2019	22/11/2022	
		EQS Inland Surface Waters (MACs)	QV1	SW1
Parameter	Units			
<b>Inorganics</b>				
Ammoniacal Nitrogen as N (low level)	mg/l	-	0.041	<0.01
Ammoniacal Nitrogen Low as NH3	mg/l	-	0.0498	<0.01
Ammoniacal Nitrogen Low as NH4	mg/l	-	0.0527	<0.01
BOD, unfiltered	mg/l	High status ≤1.3 (mean) or ≤2.2 (95%ile) Good status ≤1.5 (mean) or ≤2.6 (95%ile)	<1	<1
Chloride	mg/l	-	11.1	9
Conductivity @ 20 deg.C	mS/cm	-	1.06	0.408
Cyanide, Free (low level)	µg/l	-	<2.5	<2.5
Cyanide, Total (low level)	µg/l	-	<5	<5
Fluoride	mg/l	-	<0.5	<0.5
Nitrate as NO3	mg/l	-	0.48	3.23
Nitrite as NO2	mg/l	-	<0.05	<0.05
pH	pH Units	Soft water (<100mg/l CaCO3): 4.5-9.0. Hard water (>100mg/l CaCO3): 6.0-9.0	8.01	7.9
Phosphate (Ortho as P)	mg/l	-	<0.02	<0.02
Sulphate	mg/l	-	534	130
Sulphide	mg/l	-	<0.01	<0.01
Suspended solids, Total	mg/l	-	<2	13.8
Total Oxidised Nitrogen as N	mg/l	-	0.108	0.729
<b>Filtered (Dissolved) Metals</b>				
Aluminium (diss.filt)	µg/l	-	<10	30.1
Antimony (diss.filt)	µg/l	-	<1	<1
Arsenic (diss.filt)	µg/l	-	<0.5	<0.5
Barium (diss.filt)	µg/l	-	20.9	28.8
Boron (diss.filt)	µg/l	-	16	<10
Cadmium (diss.filt)	µg/l	0.45 - 1.5	<0.08	<0.08
Calcium (diss.filt)	mg/l	-	225	71.3
Chromium (diss.filt)	µg/l	-	3.52	<1
Copper (diss.filt)	µg/l	-	0.888	3.44
Iron (Dis.Filt)	mg/l	-	<0.019	0.11
Lead (diss.filt)	µg/l	-	<0.2	<0.2
Magnesium (Dis.Filt)	mg/l	-	29.1	9.24
Manganese (diss.filt)	µg/l	-	18.7	145
Mercury (diss.filt)	µg/l	0.07	<0.01	<0.01
Nickel (diss.filt)	µg/l	-	4.25	4.73
Phosphorus (diss.filt)	µg/l	-	<10	<10
Potassium (Dis.Filt)	mg/l	-	4.48	3.3
Selenium (diss.filt)	µg/l	-	<1	<1
Sodium (Dis.Filt)	mg/l	-	7.4	5.06
Vanadium (diss.filt)	µg/l	-	<1	<1
Zinc (diss.filt)	µg/l	-	3.56	5.76
<b>TPH Criteria Working Group (TPH CWG)</b>				
Aliphatics >C10-C12	µg/l	-	<10	<10
Aliphatics >C12-C16 (aq)	µg/l	-	<10	<10
Aliphatics >C16-C21 (aq)	µg/l	-	<10	<10
Aliphatics >C21-C35 (aq)	µg/l	-	<10	<10
Aliphatics >C5-C6	µg/l	-	<10	<10
Aliphatics >C6-C8	µg/l	-	<10	<10
Aliphatics >C8-C10	µg/l	-	<10	<10
Aromatics >EC10-EC12	µg/l	-	<10	<10
Aromatics >EC12-EC16 (aq)	µg/l	-	<10	<10
Aromatics >EC16-EC21 (aq)	µg/l	-	<10	<10
Aromatics >EC21-EC35 (aq)	µg/l	-	<10	<10
Aromatics >EC5-EC7	µg/l	-	<10	<10
Aromatics >EC7-EC8	µg/l	-	<10	<10
Aromatics >EC8-EC10	µg/l	-	<10	<10
GRO >C5-C12	µg/l	-	<50	<50
Total Aliphatics & Aromatics >C5-35 (aq)	µg/l	-	<10	<10
Total Aliphatics >C12-C35 (aq)	µg/l	-	<10	<10
Total Aromatics >EC12-EC35 (aq)	µg/l	-	<10	<10
<b>Volatile Organic Compounds (VOCs)</b>				
Benzene	µg/l	-	<1	<1
Ethylbenzene	µg/l	-	<1	<1
m,p-Xylene	µg/l	-	<1	<1
Methyl tertiary butyl ether (MTBE)	µg/l	-	<1	<1
o-Xylene	µg/l	-	<1	<1
Sum of BTEX	µg/l	-	<5	<5
Sum of detected Xylenes	µg/l	-	<2	<2
Toluene	µg/l	-	<1	<1
<b>EPH CWG (Speciated)</b>				
Aliphatics >C16-C35 Aqueous	µg/l	-	<10	<10