

Appendix L.7 Summary of Chemical Laboratory Testing – Surface Water Samples (concentrations in μ /l unless stated otherwise)

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(concentrations in µ/l unless stated otherwise)**

Contaminant	Aug-2004	Nov-2009	Jul-2015	EQS
Arsenic	<10	1.3 – 1.5	2.2 – 2.7	50
Cadmium	<1	<0.08	<0.08	5
Chromium	<50	10 – 13	6.7 – 12	50
Copper	<20	<1 – 2.3	<1 – 1.9	28
Mercury	<1	<0.5	<0.5	1
Nickel	<50	5.7 – 7.6	1.1 – 7.1	200
Lead	<50	<1 – 1.2	<1	20
Selenium	<10	<1	<1 – 2.7	-
Zinc	<100	2.6 – 7.2	6.5 – 31	125
TPH >C6-C10	<1	<0.1	<0.1	30
TPH >C10-C21	<1	<0.1	<0.1	30
TPH >C21-C40	<1	<0.1	<0.1	30
TPH aliphatic >C5-C6	-	<0.1	<0.1	30
TPH aliphatic >C6-C8	-	<0.1	<0.1	30
TPH aliphatic >C8-C10	-	<0.1	<0.1	30
TPH aliphatic >C10-C12	-	<0.1	<0.1	30
TPH aliphatic >C12-C16	-	<0.1	<0.1	30
TPH aliphatic >C16-C21	-	<0.1	<0.1	30
TPH aliphatic >C21-C35	-	<0.1	<0.1	30
TPH aromatic >C5-C7	-	<0.1	<0.1	30
TPH aromatic >C7-C8	-	<0.1	<0.1	30
TPH aromatic >C8-C10	-	<0.1	<0.1	30
TPH aromatic >C10-C12	-	<0.1	<0.1	30
TPH aromatic >C12-C16	-	<0.1	<0.1	30
TPH aromatic >C16-C21	-	<0.1	<0.1	30
TPH aromatic >C21-C35	-	<0.1	<0.1	6 – 9

Ammonia (free) (mg/l)	<0.1	<0.01	0.012 – 0.027	0.5
<i>Nitrate (mg/l)</i>	<i><0.1 – 307</i>	3.7 – 6.8	<i>11 – 79</i>	<i>50</i>
Hardness (mg/l)	280 – 560	140 - 180	-	-
<i>Phosphate (mg/l)</i>	-	-	<i>240 – 300</i>	<i>1 (reactive phosphorous standard for rivers)</i>

Figures in ***bold and italic*** indicate EQS are exceeded.