

Appendix L.5 Summary of Chemical Laboratory Testing – Groundwater (concentrations in μ /l except where stated)

Appendix L.5 – Summary of Chemical Laboratory Testing – Groundwater (concentrations in µ/l except where stated)

Contaminant	Aug-2004	Oct/Nov-2009	Jul-2015	EQS
Arsenic	<10	<1 – 4.2	<1 – 1.4	50
Cadmium	<1	<0.08 – 0.34	<0.08 – 0.12	5
Chromium	<50	7.4 – 26	<1 – 8.9	50
Copper	<20	<1 – 14	<1 – 9.4	28
Mercury	<1	<0.5 – 0.87	<0.5	1
Nickel	<50	5.9 – 49	<1 – 27	200
Lead	<50	<1 – 1.9	<1	20
Selenium	<10	<1 – 28	<1 – 5.6	-
Zinc	<100	<1 – 40	3.7 – 31	125
TPH >C6-C10	<1	<0.1	-	30
TPH >C10-C21	<1	<0.1	-	30
TPH >C21-C40	<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	-	26 – 82	<0.1	30
TPH aliphatic >C16-C21	-	53 – 130	<0.1	30
TPH aliphatic >C21-C35	-	0.3 – 6.0	<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	-	3.1 – 4.5	<0.1	30
TPH aromatic >C16-C21	-	<0.1	<0.1	30
TPH aromatic >C21-C35	-	<0.1	<0.1	30

Ammonia (free) (mg/l)	<0.1 – 0.1	<0.01	<0.01 – 0.15	0.5
<i>Nitrate (mg/l)</i>	<i><0.1 – 979</i>	<i><0.5 - 1800</i>	<i><0.5 – 940</i>	<i>50</i>
<i>Phosphate (mg/l)</i>	-	-	<i>0.1 – 1.9</i>	<i>1 (reactive phosphorous standard for rivers)</i>

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