



Appendix J

Surface Water Data



			Anningie Creek Road	Anningie Creek Main Rd	Anningie Stirling Station	Hanson River Crossing	Stirling Swamp
Parameter	Unit	Environmental Quality Limit	17/01/17	17/01/17	17/01/17	17/01/17	17/01/17
TOC							
Total Organic Carbon (Filtered)	mg/L	5	-	-	-	-	-
Unassigned							
CO2 (Free) (Filtered)	mg/L	5	-	-	-	-	-
Dissolved Organic Carbon (Filtered)	mg/L	5	-	-	-	-	-
Field Parameters							
Turbidity (Filtered)	NTU	0.1	-	-	-	60.2	-
Inorganics							
Sulfate as SO4 - Turbidimetric (Filtered)	mg/L	1	-	-	-	<1	-
Electrical conductivity (lab) (Filtered)	µS/cm	1	-	-	-	49	-
Hydroxide as CaCO3 (Filtered)	mg/L	1	-	-	-	-	-
pH (Lab) (Filtered)	pH Units	0.01	-	-	-	7.22	-
Silica (Filtered)	µg/L	100	-	-	-	-	-
Total Dissolved Solids (Filtered)	mg/L	10	-	-	-	-	-
Total Dissolved Solids (calculated from EC) (Filtered)	mg/L	1	-	-	-	32	-
Total Suspended Solids (Filtered)	mg/L	1	-	-	-	36	-
Metals							
Aluminium (Filtered)	mg/L	0.05	-	-	-	-	-
Arsenic (Filtered)	mg/L	0.001	0.002	0.002	0.002	<0.001	0.003
Barium (Filtered)	mg/L	0.001	0.014	0.026	0.014	0.016	0.038
Beryllium (Filtered)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron (Filtered)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	0.14
Cadmium (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (III+VI) (Filtered)	mg/L	0.001	0.001	0.004	0.002	0.002	0.004
Cobalt (Filtered)	mg/L	0.001	<0.001	0.002	<0.001	<0.001	0.002
Copper (Filtered)	mg/L	0.001	0.004	0.019	0.003	0.002	0.005
Iron (Filtered)	mg/L	0.05	-	-	-	-	-
Lead (Filtered)	mg/L	0.001	0.001	0.003	<0.001	0.001	0.003
Manganese (Filtered)	mg/L	0.001	0.02	0.04	0.023	0.027	0.195
Mercury (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel (Filtered)	mg/L	0.001	0.001	0.003	0.001	0.001	0.003
Selenium (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Strontium (Filtered)	mg/L	0.005	-	-	-	-	-
Uranium (Filtered)	mg/L	0.005	-	-	-	-	-
Vanadium (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	0.01
Zinc (Filtered)	mg/L	0.005	0.015	0.084	<0.005	<0.005	0.015
Alkalinity							
Alkalinity (Carbonate as CaCO3) (Filtered)	mg/L	1	-	-	-	<1	-
Alkalinity (Hydroxide as CaCO3) (Filtered)	mg/L	1	-	-	-	<1	-
Alkalinity (total as CaCO3) (Filtered)	mg/L	1	-	-	-	25	-
Bicarbonate Alkalinity as CaCO3 (Filtered)	mg/L	1	-	-	-	25	-
Hardness as CaCO3 (Filtered)	mg/L	1	21	31	17	12	68
Biological							
Plate Count (36°C) (Filtered)	CFU/mL	1	-	-	-	-	-
Coliform (Filtered)	cfu/100 ml	1	-	-	-	-	-
E. Coli (Filtered)	cfu/100 ml	1	-	-	-	-	-
Major Ions							
Fluoride (Filtered)	mg/L	0.1	-	-	-	0.1	-

Calcium (Filtered)	mg/L	0.5	5	9	5	3	14
Chloride (Filtered)	mg/L	1	-	-	-	3	-
Magnesium (Filtered)	mg/L	0.5	2	2	1	1	8
Anions Total (Filtered)	meq/L	0.01	-	-	-	0.58	-
Potassium (Filtered)	mg/L	0.5	4	7	3	3	15
Sodium (Filtered)	mg/L	0.5	8	5	7	6	35
Cations Total (Filtered)	meq/L	0.01	-	-	-	0.57	-
Sulphate (Filtered)	mg/L	1	-	-	-	-	-
Ionic Balance (Filtered)	%	0.01	-	-	-	1.25	-

Nutrients

Ammonia as N (Filtered)	mg/L	0.01	0.02	0.03	0.01	0.02	0.11
Nitrate (as N) (Filtered)	mg/L	0.01	-	-	-	<0.01	-
Nitrite (as N) (Filtered)	mg/L	0.01	-	-	-	<0.01	-
Nitrite + Nitrate as N (Filtered)	mg/L	0.01	0.07	0.04	0.04	<0.01	<0.01
Phosphate total (P) (Filtered)	µg/L	50	-	-	-	-	-
Reactive Phosphorus as P (Filtered)	µg/L	10	-	-	-	20	-
Sulphate as S (Filtered)	mg/L	5	-	-	-	-	-