

Annex F2

Surface Water Quality Monitoring Results

Table F2.1 Surface Water Monitoring Results

		Limit Level	DP4	DP6	DP4(Duplicate)
On-site Measurement					
pH Value	pH Unit	6 - 9	8.1	8.2	8.1
Electrical Conductivity	µS/cm	-	360	273	360
Dissolved Oxygen	mg/L	-	7.1	8.3	7.3
Volume Discharge	m ³	-	773	67	773
Laboratory Analysis					
Bicarbonate	mg/L	-	62	83	62
Carbonate	mg/L	-	<1	<1	<1
Suspended Solids (SS)	mg/L	20	8.1	2.4	8.4
Ammonia-nitrogen	mg/L	7.1	0.02	0.04	0.03
Chloride	mg/L	-	50	22	50
Nitrite-nitrogen	mg/L	-	0.02	0.01	0.02
Phosphate	mg/L	5	<0.01	<0.01	<0.01
Sulphate	mg/L	-	36	19	36
Sulphide	mg/L	2.5	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	-	0.4	0.3	0.5
Nitrate-nitrogen	mg/L	-	0.06	0.2	0.06
Total Nitrogen(TN)	mg/L	50	0.5	0.5	0.5
Biochemical Oxygen Demand	mg/L	20	<2	<2	<2
Chemical Oxygen Demand	mg/L	30	10	6	9
Oil & Grease	mg/L	20	<5	<5	<5
Total Organic Carbon	mg/L	-	4	3	4
Boron	µg/L	1100	60	50	60
Calcium	mg/L	-	29.8	28.6	30.8
Mercury	µg/L	1	<0.20	<0.20	<0.20
Magnesium	mg/L	-	1.7	1.9	1.74
Sodium	mg/L	-	31.5	20.1	31
Iron	mg/L	3	<0.04	<0.04	<0.04
Potassium	mg/L	-	7.61	5.92	7.87
Cadmium	µg/L	1	<0.2	<0.2	<0.2
Chromium	µg/L	300	<1	<1	<1
Copper	µg/L	300	1	<1	1
Lead	µg/L	300	<1	<1	<1
Manganese	µg/L	-	5	3	7

		Limit Level	DP4	DP6	DP4(Duplicate)
Nickel	µg/L	300	<1	<1	<1
Zinc	µg/L	-	86	<10	1780