

Annex F1

Surface Water Quality Monitoring Results

Table F1.1 Surface Water Quality Monitoring Results at DP3

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks	
11 Apr 23	16:00	Sunny		Unable to collect water sample due to insufficient flow						-
5 May 23	10:40	Sunny		Unable to collect water sample due to insufficient flow						-
9 Jun 23	10:55	Sunny		Unable to collect water sample due to insufficient flow						-
Average						-	-	-	-	
Min						-	-	-	-	
Max						-	-	-	-	

Table F1.2 Surface Water Quality Monitoring Results at DP4

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks	
5 May 23	10:30	Sunny		Unable to collect water sample due to insufficient flow						-
Average						-	-	-	-	
Min						-	-	-	-	
Max						-	-	-	-	

Table F1.3 Surface Water Quality Monitoring Results at DP6

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Ammoniacal-nitrogen (mg/L)	COD	Suspended Solids (SS) (mg/L)	Remarks	
11 Apr 23	15:46	Sunny		Unable to collect water sample due to insufficient flow						-
5 May 23	10:15	Sunny		Unable to collect water sample due to insufficient flow						-
9 Jun 23	10:50	Sunny		Unable to collect water sample due to insufficient flow						-
Average						-	-	-	-	
Min						-	-	-	-	
Max						-	-	-	-	

Table F1.4 Surface Water Monitoring Results

		Date	11 Apr 23	11 Apr 23	9 Jun 23	9 Jun 23
		Limit Level	DP4	DP4(Duplicate)	DP4	DP4(Duplicate)
On-site Measurement						
pH Value	pH Unit	6 - 9	7.57	7.6	7.8	7.4
Electrical Conductivity	µS/cm	-	2140	2160	643	649
Dissolved Oxygen	mg/L	-	6.96	6.43	4.8	4.4
Volume Discharge	m ³	-	18	18	3,180	3,180
Laboratory Analysis						
Bicarbonate	mg/L	-	34	34	36	36
Carbonate	mg/L	-	<1	<1	<1	<1
Suspended Solids (SS)	mg/L	20	4.7	7.6	11.4	11.4
Ammonia-nitrogen	mg/L	7.1	0.03	0.05	0.02	0.03
Chloride	mg/L	-	410	400	124	123
Nitrite-nitrogen	mg/L	-	0.03	0.03	0.02	0.02
Phosphate	mg/L	5	<0.01	<0.01	<0.01	<0.01
Sulphate	mg/L	-	125	112	42	46
Sulphide	mg/L	2.5	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	-	0.5	0.5	0.2	0.2
Nitrate-nitrogen	mg/L	-	0.79	0.77	0.2	0.2
Total Nitrogen(TN)	mg/L	50	1.3	1.3	0.4	0.4
Biochemical Oxygen Demand	mg/L	20	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	30	22	18	8	8
Oil & Grease	mg/L	20	<5	<5	<5	<5
Total Organic Carbon	mg/L	-	5	4	3	3
Boron	µg/L	1100	150	150	50	50
Calcium	mg/L	-	106	104	33.2	33.2
Mercury	µg/L	1	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	-	23.5	23	3.7	3.71
Sodium	mg/L	-	253	246	58.6	53.7
Iron	mg/L	3	<0.04	<0.04	<0.04	<0.04
Potassium	mg/L	-	19.5	18.8	9.64	9.65
Cadmium	µg/L	1	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	300	<1	<1	1	1
Copper	µg/L	300	3	2	2	1
Lead	µg/L	300	<1	<1	<1	<1

		Date	11 Apr 23	11 Apr 23	9 Jun 23	9 Jun 23
		Limit Level	DP4	DP4(Duplicate)	DP4	DP4(Duplicate)
Manganese	µg/L	-	17	16	6	7
Nickel	µg/L	300	<1	<1	<1	<1
Zinc	µg/L	-	<10	<10	<10	<10