

Annex F1

Surface Water Quality Monitoring Results

Table F1.1 Surface Water Quality Monitoring Results at DP4

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks
25 Jan 22	10:02	Cloudy							Unable to collect water sample due to insufficient flow
24 Feb 22	16:11	Sunny							Unable to collect water sample due to insufficient flow
21 Mar 22	14:31	Overcast							Unable to collect water sample due to insufficient flow
25 Apr 22	13:37	Sunny							Unable to collect water sample due to insufficient flow
25 May 22	14:58	Overcast	Light Yellow	-	26.8	0.18	9	31.8	-
24 Jun 22	13:19	Sunny	Light Yellow	-	26.9	0.18	10	30.9	Duplicate
30 Jun 22	11:15	Sunny							Unable to collect water sample due to insufficient flow
8 Jul 22	10:45	Sunny	Light Yellow	Semi-clear	-	-	-	26.3	-
15 Jul 22	10:30	Sunny	Light Yellow	Semi-clear	-	-	-	7.1	-
25 Jul 22	09:30	Sunny							Unable to collect water sample due to insufficient flow
23 Aug 22	10:55	Sunny							Unable to collect water sample due to insufficient flow
22 Sep 22	14:07	Sunny							Unable to collect water sample due to insufficient flow
24 Oct 22	10:30	Sunny							Unable to collect water sample due to insufficient flow
21 Nov 22	09:50	Sunny							Unable to collect water sample due to insufficient flow
21 Dec 22	14:10	Sunny							Unable to collect water sample due to insufficient flow
Average						0.18	9.5	24	-
Min						0.18	9	7.1	-
Max						0.18	10	31.8	-

Table F1.2 Surface Water Quality Monitoring Results at DP6

Date	Time	Weather Condition	Water Appearance	Water Condition	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Suspended Solids (SS) (mg/L)	Remarks
25 Jan 22	10:16	Cloudy		Unable to collect water sample due to insufficient flow					-
24 Feb 22	15:54	Sunny		Unable to collect water sample due to insufficient flow					-
21 Mar 22	14:37	Overcast		Unable to collect water sample due to insufficient flow					-
25 Apr 22	13:48	Sunny		Unable to collect water sample due to insufficient flow					-
25 May 22	15:15	Overcast		Unable to collect water sample due to insufficient flow					-
24 Jun 22	13:19	Sunny		Unable to collect water sample due to insufficient flow					-
25 Jul 22	09:39	Sunny		Unable to collect water sample due to insufficient flow					-
23 Aug 22	10:43	Sunny		Unable to collect water sample due to insufficient flow					-
22 Sep 22	14:10	Sunny		Unable to collect water sample due to insufficient flow					-
24 Oct 22	10:45	Sunny		Unable to collect water sample due to insufficient flow					-
21 Nov 22	10:00	Sunny		Unable to collect water sample due to insufficient flow					-
21 Dec 22	14:35	Sunny		Unable to collect water sample due to insufficient flow					-
					Average	-	-	-	-
					Min	-	-	-	-
					Max	-	-	-	-

Table F1.3 Surface Water Monitoring Results (May 2022)

		Limit Level	DP4	DP4(Duplicate)
On-site Measurement				
pH Value	pH Unit	6 - 9	8.10	8.02
Electrical Conductivity	µS/cm	-	393.3	321.4
Dissolved Oxygen	mg/L	-	8.10	8.02
Volume Discharge	m ³	-	1390	1390
Laboratory Analysis				
Bicarbonate	mg/L	-	48	49
Carbonate	mg/L	-	2	1
Suspended Solids (SS)	mg/L	20	31.8	30.9
Ammonia-nitrogen	mg/L	7.1	0.18	0.18
Chloride	mg/L	-	24	23
Nitrite-nitrogen	mg/L	-	0.07	0.06
Phosphate	mg/L	5	0.06	0.04
Sulphate	mg/L	-	47	49
Sulphide	mg/L	2.5	<0.1	<0.1
Total Kjeldahl Nitrogen(TKN)	mg/L	-	0.9	0.8
Nitrate-nitrogen	mg/L	-	1.16	1.17
Total Nitrogen(TN)	mg/L	50	2.1	2.1
Biochemical Oxygen Demand	mg/L	20	<2	<2
Chemical Oxygen Demand	mg/L	30	9	10
Oil & Grease	mg/L	20	<5	<5
Total Organic Carbon	mg/L	-	5	5
Boron	µg/L	1100	40	50
Calcium	mg/L	-	24.9	24.8
Mercury	µg/L	1	<0.20	<0.20
Magnesium	mg/L	-	1.61	1.5
Sodium	mg/L	-	16.8	15.8
Iron	mg/L	3	<0.04	<0.04
Potassium	mg/L	-	9.67	9.43
Cadmium	µg/L	1	<0.2	<0.2
Chromium	µg/L	300	3	3
Copper	µg/L	300	2	2
Lead	µg/L	300	<1	<1
Manganese	µg/L	-	<1	<1
Nickel	µg/L	300	<1	<1
Zinc	µg/L	-	<10	<10