



ANNEX F4

EFFLUENT QUALITY MONITORING
RESULTS

TABLE F4.1 EFFLUENT MONITORING RESULTS

Date		Limit Level	4 Jan 24	1 Feb 24	7 Mar 24	11 Apr 24	9 May 24	13 Jun 24	11 Jul 24	15 Aug 24	4 Sep 24	3 Oct 24	7 Nov 24	4 Dec 24
On-site Measurements														
Temperature	°C	43	23.9	30.3	19.8	33.1	34.3	31.6	36.1	29.7	35.3	29.2	27.7	29
pH Value	pH Unit	6 - 10	8.3	8.4	8.3	8.4	8.3	8.2	8.4	8.5	8.3	8.2	8.5	8.4
Volume Discharged	m ³	2,000	582	1,390	108	934	1,829	358	262	1293	1,041	1123	1290	1367
Laboratory Analysis														
Suspended Solids (SS)	mg/L	800	27.1	40.1	14	36.8	23	56.8	15.9	26.5	20.7	25.7	42.6	30.1
Alkalinity	mg/L	N/A	1040	1860	2460	2400	1120	2070	2170	2000	2060	2000	1950	2120
Ammoniacal-nitrogen	mg/L	100	0.13	<1.00	6.55	<0.01	0.25	23.4	0.2	0.24	1.28	0.36	<0.01	0.15
Chloride	mg/L	N/A	1090	1960	2010	2130	1520	1680	1880	1830	2090	1760	1850	1880
Nitrite-nitrogen	mg/L	100	0.34	0.14	1.01	0.27	0.11	0.87	0.86	0.5	0.13	0.2	<0.10	0.15
Phosphate	mg/L	25	1.9	3.84	9.5	7.8	5.22	7.03	5.86	7.2	4.75	5.46	2.96	7.45
Sulphate	mg/L	800	296	294	120	169	224	135	132	164	216	167	177	135
Total Nitrogen	mg/L	N/A	90.7	86.6	76.3	99.5	74.6	105	88	80.3	84.7	97.2	104	81.7
Nitrate-nitrogen	mg/L	100	63.9	41.9	22.6	36.4	35.7	28.9	27.7	35.8	40.5	35.4	57.5	31
Total Inorganic Nitrogen	mg/L	100	64.37	42.04	30.16	36.67	36.06	53.17	28.76	36.54	41.91	35.96	57.50	31.30
Biochemical Oxygen Demand (BOD)	mg/L	800	6	18	26	10	10	32	7	7	8	13	14	14
Chemical Oxygen Demand (COD)	mg/L	2,000	609	913	1080	1130	791	942	972	872	693	833	810	865
Oil & Grease	mg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	N/A	185	319	344	276	251	297	284	330	266	264	317	305

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Boron	µg/L	7,000	3020	4540	5600	5960	3820	4960	5200	5120	5620	5570	6310	5390
Calcium	mg/L	N/A	24.1	27	22	18.2	17.7	23.5	29.7	24.2	38.1	33	35.3	45.1
Iron	mg/L	5	1.34	1.81	2.19	2.44	1.26	2.06	2.06	1.33	1.6	1.53	1.38	1.31
Magnesium	mg/L	N/A	23.8	38.1	30	35.2	27.4	30.2	35.2	29.9	40.4	31.2	31.9	32.5
Potassium	mg/L	N/A	527	786	837	778	592	748	886	641	806	782	737	653
Cadmium	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	300	69	102	134	140	85	109	127	97	113	113	106	102
Copper	µg/L	1,000	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	<10	<10
Nickel	µg/L	700	67	110	121	129	85	110	177	117	110	111	103	96
Zinc	µg/L	700	40	43	52	48	63	79	50	62	54	44	36	26