

1ST APRIL 2023 - 31ST MARCH 2024

Sample	Monthly	DISCHARGE AND MP1								DISCHARGE AND MP6								LOAD CALCULATIONS					MP2	MP4			MP3			MP2
		Faecal	Amm	pH	TSS	BOD	O&G	Total N	Phos	Faecal	Amm	pH	TSS	BOD	O&G	Total N	Phos	TSS	BOD	O&G	Total N	Phos	Daily	Down Stream			Up Stream			Monthly
Date	Rainfall	Coliforms								Coliforms								Ld	Ld	Ld	Ld	Ld	Volume	Phos	Nitrates	p H	Phos	Nitrates	p H	Flow
01.05.2023	4	1400	0.25	7.43	10	5	2	8.9	0.6	0	0	0	0	0	0	0	16.555	8.2775	3.311	14.73395	0.9933	1655	0.18	1.7	6.95	0.6	0.7	7.07	40926	
07.06.2023	34.5	63	1.29	7.67	6	4	2	13.1	0.39	0	0	0	0	0	0	0	7.554	5.036	2.518	16.4929	0.49101	1259	0.07	1.9	7.3	0.05	0.9	7.46	47045	
10.07.2023	114	390	3.72	7.52	5	4	2	18.3	0.58	0	0	0	0	0	0	0	10.73	8.584	4.292	39.2718	1.24468	2146	0.07	2	7.37	0.05	1	7.52	34093	
7.08.2023	155	27	3.37	7.57	7	2	2	19.8	0.42	0	0	0	0	0	0	0	11.403	3.258	3.258	32.2542	0.68418	1629	0.1	2.2	7.25	0.1	2.2	7.39	46880	
4.09.2023	115	340	2.6	7.55	12	4	2	16.2	0.41	0	0	0	0	0	0	0	18.486	6.162	3.081	24.9561	0.631605	1541	0.05	1.8	7.19	0.05	1	7.33	47101	
10.10.2023	77	20	2.52	7.07	13	5	2	21.2	0.46	0	0	0	0	0	0	0	18.863	7.255	2.902	30.7612	0.66746	1451	0.07	1.8	6.83	0.05	0.6	6.97	42056	
30.10.2023	76	110	2.21	7.61	6	4	2	11.3	0.36	0	0	0	0	0	0	0	9.21	6.14	3.07	17.3455	0.5526	1535	0.06	1.8	7.25	0.05	1	7.39	43438	
04.12.2023	83	30	0.94	7.03	31	15	2	7.1	0.73	0	0	0	0	0	0	0	46.1745	22.3425	2.979	10.57545	1.087335	1489	0.12	1.4	6.93	0.05	1	7.03	39092	
08.01.2024	0	1000	0.33	7.36	7	10	2	5.6	0.59	0	0	0	0	0	0	0	13.0935	18.705	3.741	10.4748	1.103595	1871	0.09	1.2	6.84	0.05	1	7.35	44206	
29.01.2024	0	330	0.15	7.52	8	4	2	4.1	0.63	0	0	0	0	0	0	0	14.312	7.156	3.578	7.3349	1.12707	1789	0.09	1.2	7.06	0.05	0.8	7.18	42892	
04.03.2024	0	300	0.88	7.35	20	14	2	7.2	1.09	0	0	0	0	0	0	0	33.26	23.282	3.326	11.9736	1.81267	1663	0.23	1.8	6.82	0.05	0.8	6.96	41103	
02.04.2024	0	130	4.02	7.71	8	3	2	10.8	0.35	0	0	0	0	0	0	0	11.036	4.1385	2.759	14.8986	0.482825	1379	0.09	0.6	7.26	0.05	0.4	7.42	43866	
	Min	20	0.15	7.03	5	2	2	4.1	0.35	0	0	0	0	0	0	0						Min	0.05	0.6	6.82	0.05	0.4	6.96		
	Mean	345	1.856667	7.449167	11.08333	6.166667	2	11.96667	0.550833	0	0	0	0	0	0	0						Mean	0.101667	1.616667	7.0875	0.1	0.95	7.255833		
	Max	1400	4.02	7.71	31	15	2	21.2	1.09	0	0	0	0	0	0	0						Max	0.23	2.2	7.37	0.6	2.2	7.52		
Sum of Observed Daily Loads										Sum of Observed Daily Loads					210.677	120.3365	38.815	231.073	10.87833	19407.5	ANNUAL FLOW					512698.00				
Flow Weighted Concentration										Flow Weighted Concentration					0.010855	0.006201	0.002	0.011906	0.000561	MEAN DAILY FLOW k L					1404.65					
Flow Weighted Concentration X Total Flow										Flow Weighted Concentration X Total Flow					5565.564	3178.992	1025.396	6104.375	287.3785	MIN DAILY FLOW k L					400.00					
STORMWATER BYPASS TOTAL (k L)										STORMWATER BYPASS TOTAL (k L)										9235844	MAX DAILY FLOW k L					3550				

PERCENTILE CONCENTRATION LIMIT				
DISCHARGE TO WATER/MONITORING POINT 1				
POLLUTANT	50 PERCENTILE CONCENTRATION LIMITS	80 PERCENTILE CONCENTRATION LIMITS	90 PERCENTILE CONCENTRATION LIMITS	100 PERCENTILE CONCENTRATION LIMITS
OIL AND GREASE	LIMIT			10
	READING			2
pH	LIMIT		6.5 - 8.5	
	READING		7.71	
NITROGEN (TOTAL)	LIMIT		15	20
	READING		20	21
PHOSPHOROUS (TOTAL)	LIMIT		1	2
	READING		0.72	1.09
FAECAL COLIFORMS	LIMIT	200		600
	READING	380		1400
TOTAL SUSPENDED SOLIDS (TSS)	LIMIT	20	25	30
	READING	8		31
BIOCHEMICAL OXYGEN DEMAND (BOD)	LIMIT	15	20	30
	READING	4		15

Assessable Pollutant					
	Biochemical Oxygen Demand (BOD)	Nitrogen (Total)	Oil & Grease	Phosphorus (Total)	Total Suspended solids (TSS)
Load Limits kg	1950	4750	1150	1200	6150
Date)	3179.0	6104.4	1025.4	287.4	5565.6
ML per Year)	3.55	3.55	3.55	3.55	3.55
Factor	10	10	2	0.3	15
Threshold (CFRT)	35.5	35.5	7.1	1.065	53.25
(AFRT)	6322.5	12173.3	2043.7	573.7	11077.9
Calculation Fator (CF)	0.004262	0.294078	0.315388	8.69448	0.332436
Calculated Pollutant fee	\$26.95	\$3,579.89	\$644.56	\$4,987.95	\$3,682.69

Biochemical Oxygen	26.95
Nitrogen (Total)	\$3,579.89
Oil & Grease	\$644.56
Phosphorus (Total)	\$4,987.95
Total Suspended	\$3,682.69
	\$12,895.08

Small Plant Factor (ML per year) = Total Yearly Flow
 Small Plant Factor (ML per year) x FRT = CFRT
 Assessable Load (AL) x 2 - CFRT = AFRT
 AFRT x CF = Calculated Pollutant Fee