COMPLIANCE SUMMARY
April 2021 to March 2022

Hahei WWTP		
Total Influent Flow	31,024	m3
Maximum Effluent Flow	457	m3
Average Effluent Flow	260	m3
Total Effluent Flow	33,019	m3

	90th Percentile	Running Average	*Limits*	
Suspended solids (g/m3)	6.6	3.7	20	10
cBOD5 (g/m3)	6.7	4.5	20	10
Escherichia coli (cfu/100 mL)	8.3	9.6	20	10
Total Ammoniacal nitrogen (g/m3)	**18.0**	8.3	15	10
Total Kjeldahl Nitrogen (g/m3)	**20.5**	10.2	20	15
Total Phosphorus (g/m3)	11.5	10.1	20	14

Hahei WWTP Annual Performance Report
April 2021 to March 2022

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/04/2021	4	57		7.46	6.82	7.51	7.33	7.73	7.32	820
2/04/2021	23	98	0	7.35	3.67	7.59	6.43	7.71	6.96	890
3/04/2021	0	151	229	7.48	4.19	7.49	6.77	7.63	4.82	810
4/04/2021	2	201	247	7.50	4.29	7.55	7.02	7.60	4.83	800
5/04/2021	0	222	300	7.47	4.84	7.64	6.25	7.45	5.31	780
6/04/2021	0	115		7.41	5.00	7.58	6.41	7.37	5.35	850
7/04/2021	0	75	300	7.27	4.34	7.25	5.78	7.65	9.04	900
8/04/2021	5	65	225	7.10	4.87	7.25	7.09	7.48	6.59	810
9/04/2021	2	96		7.25	6.59	7.25	7.42	7.78	9.21	840
10/04/2021	2	45		7.10	4.83	7.09	6.37	7.53	5.59	900
11/04/2021	18	66		7.05	3.17	7.21	6.84	7.58	7.51	930
12/04/2021	2	57	0	7.27	5.87	7.19	7.32	7.70	7.63	950
13/04/2021	2	58	341	7.45	8.49	7.43	8.49	8.92	17.37	840
14/04/2021	0	43	213	7.21	6.42	7.31	6.81	7.64	7.74	780
15/04/2021	1	67		7.38	8.93	7.77	12.66	8.81	19.22	840
16/04/2021	2	44		7.39	9.80	7.44	8.71	8.73	15.80	860
17/04/2021	0	0		7.07	2.06	7.14	7.35	7.22	3.12	860
18/04/2021	4	0		7.01	2.26	7.09	11.17	7.81	2.22	870
19/04/2021	0	117		7.48	9.30	7.49	7.30	9.33		930
20/04/2021	2	60	239	7.22	6.36	7.30	6.94	7.97	8.93	820
21/04/2021	33	90	280	7.19	4.30	7.46	8.05	8.37	12.07	800
22/04/2021	0	27	237	7.17	3.77	7.27	6.03	7.60	5.93	750
23/04/2021	0	146		7.22	6.48	7.36	7.89	8.06	9.63	830
24/04/2021	23	99		7.16	6.20	7.29	7.94	7.87	8.17	880
25/04/2021	0	117		7.20	6.48	7.22	6.55	7.97	8.00	930
26/04/2021	0	123		7.19	6.77	7.18	7.26	8.08	8.24	960
27/04/2021	0	131	307	7.24	7.60	7.34	8.01	7.96	9.13	860
28/04/2021	3	83	53	7.14	6.89	7.34	5.34	7.97	8.81	910
29/04/2021	6	99	326	7.16	6.29	7.25	6.72	7.90	9.19	810
30/04/2021	1	81	273	7.18	6.41	7.26	6.92	7.96	10.31	760
1/05/2021	1	58		7.47	4.17	7.92	5.59	7.60	10.21	830
2/05/2021	0	78		7.17	2.06	7.33	5.56	7.74	10.19	830
3/05/2021	0	52		7.12	4.56	7.14	5.52	7.79	9.05	865
4/05/2021	0	61		7.60	5.98	7.39	6.00	8.30	11.40	900
5/05/2021	0	46		7.20	5.99	7.28	7.05	8.21	10.84	900
6/05/2021	0	59		7.32	7.75	7.33	5.68	8.23	10.52	910
7/05/2021	0	42	251	7.24	4.87	7.26	5.47	7.99	9.50	800
8/05/2021	1	49	242	7.24	3.35	7.27	6.61	7.56	10.80	740
9/05/2021	1	55	246	7.23	2.82	7.25	5.23	7.50	10.30	700
10/05/2021	1	57		7.29	5.39	7.33	4.76	7.68	7.66	760
11/05/2021	5	53		7.20	2.75	7.23	5.08	7.75	10.59	780
12/05/2021	5	27		7.30	4.87	7.29	5.41	7.72	7.80	800
13/05/2021	3	52		7.45	6.00	7.44	6.96	7.80	7.80	820
14/05/2021	0	47	252	7.35	7.23	7.42	7.02	7.76	9.02	700
15/05/2021	16	48		7.34	5.87	7.23	3.48	7.89	9.22	770
16/05/2021	0	60		7.34	4.70	7.38	4.95	7.72	10.14	780
17/05/2021	4	59		7.34	6.69	7.29	5.34	9.03	16.10	820
18/05/2021	4	35		7.24	5.09	7.25	4.76	7.79	8.88	840
19/05/2021	3	37		7.21	5.20	7.24	4.71	7.92	9.76	850
20/05/2021	0	43		7.25	5.09	7.25	5.79	7.69	6.30	860
21/05/2021	0	55	208	7.38	7.44	7.31	7.29	7.89	10.01	760
22/05/2021	0	46		7.02	4.27	7.31	6.78	7.82	10.84	830
23/05/2021	0	59		7.32	3.86	7.35	6.52	7.76	11.36	850
24/05/2021	0	37		7.35	6.37	7.39	6.27	7.86	8.44	860
25/05/2021	0	42		7.50	5.20	7.43	6.64	8.09	10.05	880
26/05/2021	0	42	245	7.42	5.25	7.51	7.43	8.05	10.61	760
27/05/2021	0	31	199	7.48	6.88	7.67	9.98	7.87	9.87	700
28/05/2021	0	51		7.45	6.02	7.48	7.23	7.94	10.47	770
29/05/2021	6	50		7.17	5.96	7.35	5.74	7.74	10.26	780
30/05/2021	14	51		7.18	2.16	7.50	6.70	7.78	10.66	800
31/05/2021	11	57		7.36	5.78	7.54	5.79	8.09	10.17	850

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/06/2021	2	67		7.33	6.80	7.64	7.46	8.71	13.52	880
2/06/2021	0	54	218	7.17	3.79	7.45	5.59	8.34	12.02	770
3/06/2021	0	62	226	7.39	7.01	7.59	8.17	8.17	11.17	710
4/06/2021	0	63		7.90	12.54	8.26	13.32	9.01	18.21	800
5/06/2021	3	32		7.52	5.68	7.55	7.32	7.89	10.12	790
6/06/2021	4	96		7.44	6.73	7.62	7.34	8.01	10.32	830
7/06/2021	41	127		7.50	5.96	7.62	5.74	8.07	9.94	920
8/06/2021	18	102	204	7.32	4.99	7.61	5.66	7.84	8.48	870
9/06/2021	14	131	215	7.24	5.89	7.53	7.20	7.83	8.63	860
10/06/2021	5	109	223	7.08	6.63	7.05	6.90	6.91	8.72	840
11/06/2021	4	89	211	7.63	11.96	7.45	12.29	7.45	11.35	810
12/06/2021	0	84	422	7.23	5.66	7.10	8.26	6.94	9.75	770
13/06/2021	0	52	162	7.41	2.95	7.13	4.63	7.35	11.63	750
14/06/2021	11	65	191	7.45	5.44	7.33	6.84	7.28	4.77	710
15/06/2021	12	94		7.14	3.87	7.27	3.86	7.23	3.56	800
16/06/2021	7	98		7.42	10.07	7.26	9.83	7.50	12.23	860
17/06/2021	1	77		7.36	6.83	7.13	8.55	7.00	7.16	880
18/06/2021	12	88		7.41	9.55	7.21	6.32	7.10	11.98	910
19/06/2021	15	52	141	7.85	1.98	8.31	4.98	7.82	10.98	830
20/06/2021	65	191	173	7.71	4.43	7.57	6.86	7.73	10.43	880
21/06/2021	6	227	196	7.85	6.03	7.18	7.30	7.08	4.01	940
22/06/2021	12	151	160	7.20	7.61	7.19	7.17	7.21	5.32	960
23/06/2021	0	101	272	7.32	4.70	7.23	5.14	7.08	4.55	900
24/06/2021	0	92	270	7.85	5.44	7.21	4.70	7.10	4.06	860
25/06/2021	0	82	327	7.98	5.56	7.33	6.03	7.20	5.15	790
26/06/2021	0	67	221	7.47	5.15	7.07	5.83	7.08	3.80	740
27/06/2021	0	64		7.34	3.70	7.20	3.65	7.10	3.11	680
28/06/2021	1	74		7.38	4.47	7.30	4.40	7.25	3.83	760
29/06/2021	1	62		7.54	4.94	7.29	4.72	7.25	3.58	790
30/06/2021	0	62		7.41	5.52	7.34	6.06	7.33	6.10	800
1/07/2021	2	43		7.51	6.46	7.35	6.82	7.32	4.51	800
2/07/2021	0	65		7.57	4.27	7.35	5.23	7.33	4.20	830
3/07/2021	0	52		7.53	2.70	7.31	4.67	7.32	11.82	850
4/07/2021	0	61		7.68	2.54	7.45	5.04	7.41	10.90	855
5/07/2021	0	48		8.46	4.52	8.11	5.00	8.01	4.32	880
6/07/2021	0	45		7.78	6.53	7.55	6.99	7.50	4.24	900
7/07/2021	33	71		7.70	6.49	7.46	7.13	7.49	7.09	930
8/07/2021	2	76	261	7.84	6.75	7.42	7.21	7.51	6.97	880
9/07/2021	2	94	316	8.08	6.82	7.91	6.81	7.92	7.14	790
10/07/2021	0	37	209	8.15	3.97	7.93	7.10	7.70	13.12	720
11/07/2021	0	61	277	8.05	4.21	7.68	7.30	7.44	12.96	680
12/07/2021	15	77		7.89	5.47	7.94	5.63	7.89	6.44	740
13/07/2021	7	91		7.74	5.62	7.70	5.94	7.73	7.35	780
14/07/2021	1	52		7.83	4.52	7.67	4.55	7.64	6.90	800
15/07/2021	0	100		7.73	3.71	7.62	5.15	7.71	9.46	810
16/07/2021	0	42		7.82	6.05	7.74	6.45	7.75	6.21	840
17/07/2021	4	100		7.80	4.27	7.62	4.25	7.61	6.60	880
18/07/2021	21	119		7.75	5.17	7.67	5.50	7.69	7.21	940
19/07/2021	8	106	295	7.74	5.05	7.65	5.34	7.71	6.48	840
20/07/2021	21	80	269	7.82	5.46	7.65	5.74	7.57	6.10	800
21/07/2021	0	66		7.74	6.24	7.62	6.90	7.58	4.40	730
22/07/2021	37	128	240	7.85	6.57	7.67	6.85	7.64	4.81	880
23/07/2021	2	139	340	7.92	7.83	7.84	8.11	7.75	5.58	780
24/07/2021	1	96		8.00	4.19	7.81	8.43	7.64	11.33	860
25/07/2021	1	94		8.04	4.83	7.77	9.31	7.72	11.73	890
26/07/2021	35	145	313	7.84	7.16	7.77	7.38	7.69	7.49	820
27/07/2021	5	120		8.03	8.70	7.79	8.82	7.75	7.53	880
28/07/2021	5	121	198	7.64	4.46	7.59	4.96	7.55	4.90	880
29/07/2021	11	103	363	7.60	4.32	7.57	4.77	7.51	7.91	800
30/07/2021	12	76		7.61	6.49	7.47	7.31	7.46	8.37	720
31/07/2021	1	73		7.67	3.17	7.38	7.36	7.32	9.96	780

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/08/2021	0	73		7.62	2.63	7.61	5.99	7.45	11.13	810
2/08/2021	0	75		7.13	9.71	7.12	9.78	7.21	8.98	840
3/08/2021	2	61		7.91	6.96	7.72	8.05	7.64	8.99	860
4/08/2021	0	67	323	7.50	4.23	6.94	4.80	6.94	8.99	720
5/08/2021	2	56		7.38	5.67	7.14	6.06	6.96	8.82	800
6/08/2021	2	60		7.29	7.40	7.18	6.65	6.98	8.34	820
7/08/2021	7	59		7.45	6.07	7.15	6.90	7.01	8.85	700
8/08/2021	21	78		7.83	6.04	7.46	6.95	7.20	9.29	760
9/08/2021	6	66		7.46	6.49	7.32	6.60	7.16	9.81	800
10/08/2021	2	54		7.77	6.02	7.21	5.20	7.14	10.08	810
11/08/2021	0	62		7.43	6.76	7.39	6.32	7.35	12.09	820
12/08/2021	0	59	394	7.35	7.44	7.24	7.32	7.36	12.86	690
13/08/2021	0	39		7.51	5.70	7.27	6.47	7.38	12.97	740
14/08/2021	0	54		7.80	8.76	7.54	9.92	7.45	10.21	760
15/08/2021	0	69		7.46	4.04	7.35	7.32	7.38	9.55	780
16/08/2021	1	59		7.70	4.85	7.32	6.53	7.38	13.40	790
17/08/2021	0	51		7.65	9.90	7.65	10.02	7.71	10.37	800
18/08/2021	10	55		7.97	10.04	7.68	10.15	7.62	10.30	840
19/08/2021	2	50		8.69	9.97	8.63	10.03	8.69	11.33	850
20/08/2021	0	36	319	7.70	7.13	7.74	9.24	7.93	12.73	720
21/08/2021	4	39		7.83	4.82	7.51	4.64	7.64	11.48	775
22/08/2021	3	38		7.87	7.19	7.56	7.26	7.82	12.45	800
23/08/2021	1	37		7.90	9.54	7.73	10.77	7.82	12.77	800
24/08/2021	1	45		7.78	10.10	7.72	10.29	8.07	18.90	820
25/08/2021	0	33		8.10	12.31	7.81	11.68	9.48	21.24	830
26/08/2021	0	43		7.89	5.24	7.81	7.41	8.08	11.24	840
27/08/2021	0	44	359	7.60	4.84	7.55	5.04	7.59	8.28	690
28/08/2021	16	35		7.77	7.93	7.59	7.95	7.68	8.48	750
29/08/2021	13	45		7.68	7.12	7.58	8.90	7.67	7.90	790
30/08/2021	1	54		7.75	9.12	7.63	11.08	7.70	8.54	810
31/08/2021	15	78		8.02	5.24	7.57	5.33	7.52	9.16	860
1/09/2021	0	44	297	7.72	4.30	7.57	5.03	7.60	9.28	730
2/09/2021	3	61		8.16	10.12	8.10	11.84	8.16	10.91	800
3/09/2021	2	55		7.76	8.51	7.75	11.89	7.79	11.96	820
4/09/2021	0	37		7.74	5.38	7.57	8.02	7.72	10.61	820
5/09/2021	0	44	6	6.84	5.82	6.83	8.73	8.22	9.70	790
6/09/2021	0	47		7.88	8.40	7.77	8.68	7.77	10.71	850
7/09/2021	0	41	3	7.76	5.16	7.70	6.26	7.90	8.88	870
8/09/2021	5	69	358	7.81	7.17	7.74	8.74	7.78	9.54	750
9/09/2021	25	62	332	8.07	11.62	7.83	12.11	7.91	14.00	690
10/09/2021	3	58		7.87	9.04	7.74	9.48	7.76	11.12	760
11/09/2021	2	48		7.93	4.25	6.92	7.88	7.84	5.61	780
12/09/2021	4	61		8.15	4.12	7.96	9.74	7.75	6.61	850
13/09/2021	0	61		7.75	7.21	7.74	7.66	7.73	8.29	810
14/09/2021	0	43		7.67	6.08	7.64	5.66	7.66	7.66	830
15/09/2021	0	51		7.60	5.20	7.59	5.41	7.59	7.78	860
16/09/2021	25	377		7.68	6.24	7.40	5.65	7.31	8.25	1020
17/09/2021	95	268	422	7.67	4.08	7.39	6.63	7.24	7.49	1020
18/09/2021	11	150	415	7.70	4.85	7.73	6.12	7.58	7.65	980
19/09/2021	2	124	420	7.71	5.99	7.65	6.56	7.68	7.84	880
20/09/2021	0	111	421	7.72	3.95	7.40	6.92	7.33	7.08	810
21/09/2021	1	67	16	7.90	3.40	7.31	5.82	7.30	8.06	720
22/09/2021	0	71		7.86	4.35	7.42	6.62	7.72	6.31	760
23/09/2021	0	69		7.94	3.29	7.45	6.64	7.84	5.64	820
24/09/2021	23	115		7.60	2.66	7.74	6.24	7.48	6.96	850
25/09/2021	8	93		7.63	3.29	7.48	6.79	7.61	8.96	880
26/09/2021	0	86		7.60	3.59	7.77	8.34	7.52	5.84	900
27/09/2021	0	52	20	7.90	5.11	7.67	9.01	7.52	6.65	920
28/09/2021	1	63	357	7.70	4.55	7.69	9.68	7.63	6.86	800
29/09/2021	0	54	378	7.71	4.89	7.85	8.43	7.68	6.28	700
30/09/2021	0	65		7.69	4.47	7.73	6.99	7.69	6.36	720

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/10/2021	0	69		7.82	4.25	7.89	7.21	7.70	8.07	770
2/10/2021	0	28		7.65	5.50	7.63	7.11	7.63	5.46	800
3/10/2021	0	59		7.79	3.89	7.98	7.45	7.90	6.22	820
4/10/2021	0	62		7.88	3.88	7.65	7.05	7.98	6.23	850
5/10/2021	22	71		7.76	3.83	7.51	6.70	7.60	10.10	880
6/10/2021	2	42		8.28	6.31	8.14	6.90	8.13	8.05	880
7/10/2021	0	66	23	7.89	5.04	7.28	8.52	7.31	5.16	900
8/10/2021	1	73	412	7.43	4.45	7.22	6.36	7.39	9.36	760
9/10/2021	9	54	314	7.68	4.23	7.48	7.38	7.33	5.30	690
10/10/2021	0	61		7.73	4.88	7.46	7.88	7.33	5.79	760
11/10/2021	0	57		7.72	5.65	7.36	7.85	7.60	5.77	770
12/10/2021	0	74		7.76	3.64	7.58	8.34	7.56	5.37	800
13/10/2021	5	50		7.88	4.32	7.38	8.47	7.61	6.24	810
14/10/2021	2	70		7.80	2.90	7.45	8.05	7.68	5.86	830
15/10/2021	0	42	239	7.65	4.52	7.04	6.41	7.38	6.41	650
16/10/2021	0	53		7.57	5.45	7.69	6.72	7.80	7.19	760
17/10/2021	0	45		7.45	5.17	7.83	7.60	7.68	5.06	780
18/10/2021	0	54		7.74	6.66	7.56	8.11	7.61	6.70	820
19/10/2021	18	58		7.61	8.22	7.82	9.37	7.97	6.02	830
20/10/2021	2	36		7.65	2.36	7.75	4.96	7.65	4.19	830
21/10/2021	0	43		7.71	1.99	7.48	5.05	7.54	4.46	850
22/10/2021	0	48		7.46	3.77	7.51	6.03	7.60	6.03	870
23/10/2021	5	42		7.67	3.16	7.20	4.98	7.27	5.36	880
24/10/2021	3	43		7.43	2.36	7.25	4.98	7.44	4.67	900
25/10/2021	12	88		7.56	1.81	7.36	5.26	7.46	4.48	950
26/10/2021	15	81	457	7.55	3.29	7.35	5.87	7.45	7.23	820
27/10/2021	2	60	273	7.54	1.87	7.68	4.62	7.38	6.31	740
28/10/2021	2	53		7.75	3.09	7.50	5.79	7.47	5.18	800
29/10/2021	0	102		7.68	4.79	7.71	6.88	8.10	8.03	870
30/10/2021	38	82	3	7.44	2.15	7.57	5.08	7.51	4.94	900
31/10/2021	3	87	397	7.85	3.33	7.58	5.58	7.54	4.65	780
1/11/2021	4	69		7.54	1.89	7.71	6.11	7.54	4.80	840
2/11/2021	1	53		7.43	5.32	7.45	5.90	7.49	7.06	800
3/11/2021	0	51		7.67	3.08	7.35	6.32	7.54	3.07	880
4/11/2021	9	58	96	7.82	2.61	7.38	7.32	7.66	5.48	860
5/11/2021	0	64	313	7.52	6.75	7.51	7.41	7.50	5.77	770
6/11/2021	10	73		7.51	1.16	7.26	3.15	7.22	3.28	850
7/11/2021	25	91		7.54	1.92	7.33	5.42	7.22	5.40	880
8/11/2021	0	79		7.53	2.71	7.29	4.92	7.44	8.41	900
9/11/2021	1	57		7.33	5.65	7.33	5.61	7.44	8.24	760
10/11/2021	0	46		7.34	5.57	7.65	7.81	7.33	5.50	800
11/11/2021	0	59		7.29	3.72	7.12	6.21	7.10	6.46	830
12/11/2021	0	55		7.50	2.61	7.35	3.41	7.45	6.22	850
13/11/2021	0	41		7.51	4.56	7.33	4.72	7.65	4.46	850
14/11/2021	2	58		7.51	3.18	7.12	4.86	7.38	4.41	880
15/11/2021	17	70	350	7.66	5.42	7.20	5.80	7.55	5.24	900
16/11/2021	3	54	353	7.33	3.11	7.56	4.10	7.25	5.41	800
17/11/2021	0	55	20	7.74	1.14	7.30	5.23	7.39	4.93	820
18/11/2021	0	38	345	7.35	1.62	7.74	4.03	7.30	5.30	700
19/11/2021	0	59		7.44	3.32	7.36	5.09	7.37	4.31	740
20/11/2021	0	48		7.90	4.50	7.41	5.77	7.57	5.27	780
21/11/2021	0	59		7.62	4.77	7.83	6.32	7.56	5.14	780
22/11/2021	0	52		7.76	2.63	7.60	6.12	7.60	4.78	790
23/11/2021	0	47		7.52	4.17	7.88	7.27	7.65	2.46	800
24/11/2021	0	44		7.58	5.03	7.46	5.48	7.53	6.14	820
25/11/2021	12	59		7.71	1.85	7.65	5.56	7.83	1.53	850
26/11/2021	1	29	316	7.71	4.11	7.66	6.84	7.74	5.61	810
27/11/2021	0	57		7.62	3.64	7.67	5.61	7.76	5.33	850
28/11/2021	0	71		7.70	3.48	7.67	5.46	7.81	5.06	880
29/11/2021	0	57		7.87	3.07	7.53	6.35	7.68	5.04	880
30/11/2021	0	38		7.64	4.70	7.57	4.81	7.69	6.12	890

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/12/2021	0	44		7.63	2.62	7.58	5.70	7.66	5.61	920
2/12/2021	0	66		7.79	3.62	7.60	7.23	7.69	4.26	940
3/12/2021	6	51		7.25	7.26	7.49	8.18	7.51	5.33	950
4/12/2021	0	42		7.81	6.91	7.51	8.23	7.94	3.81	820
5/12/2021	7	55	368	7.89	7.10	7.67	8.63	7.72	4.02	740
6/12/2021	1	64		7.95	6.21	7.99	7.35	7.81	6.39	790
7/12/2021	0	40		7.92	7.87	7.77	7.99	7.72	6.91	790
8/12/2021	0	42		8.00	2.39	7.70	7.68	7.81	6.46	800
9/12/2021	0	48		7.99	7.38	7.72	7.30	7.78	5.82	810
10/12/2021	0	50		7.92	7.81	7.75	7.44	7.76	5.91	810
11/12/2021	0	51		7.81	7.99	7.96	7.61	7.73	5.72	820
12/12/2021	0	64		7.87	6.32	7.60	8.13	7.54	3.53	840
13/12/2021	1	53		7.66	6.07	7.84	8.05	7.58	3.78	890
14/12/2021	25	58	4	7.56	7.59	7.48	7.67	7.44	7.06	900
15/12/2021	8	69	339	7.46	5.36	7.35	7.56	7.40	3.10	840
16/12/2021	36	105		7.51	6.89	7.47	7.25	7.39	6.38	750
17/12/2021	9	95		7.79	7.28	7.63	7.70	7.52	5.30	820
18/12/2021	2	105		7.65	7.13	7.69	8.18	7.81	4.66	840
19/12/2021	0	133		7.69	6.67	7.66	7.91	7.68	5.61	860
20/12/2021	0		3	7.50	6.90	7.52	7.80	7.47	7.73	910
21/12/2021	0		357	7.60	5.46	7.60	6.90	7.51	5.22	800
22/12/2021	0	103	378	7.28	5.88	7.22	7.12	7.11	4.88	720
23/12/2021	0	104		7.34	7.40	7.14	7.60	7.11	5.10	780
24/12/2021	0	117		7.39	6.51	7.32	7.00	7.44	5.37	820
25/12/2021	0	108		7.17	5.99	7.10	8.33	7.11	3.98	830
26/12/2021	0	129		6.81	4.98	6.63	7.41	6.89	3.65	870
27/12/2021	0	173	0	6.87	4.81	6.68	8.01	6.85	3.13	900
28/12/2021	0	200	374	6.75	4.15	7.13	6.84	6.75	2.44	850
29/12/2021	3	219	374	6.79	2.04	6.71	6.60	6.88	1.93	800
30/12/2021	2	275	403	6.81	2.57	7.67	6.23	6.92	3.97	740
31/12/2021	0	209	0	6.70	2.28	6.71	4.63	6.86	2.63	870
1/01/2022	0	171	9	8.02	2.72	7.77	5.22	7.90	1.62	920
2/01/2022	0	243	390	6.66	0.09	6.63	4.77	6.78	1.16	840
3/01/2022	0	257	413	6.64	0.08	6.57	3.28	6.67	1.45	780
4/01/2022	0	214	370	6.46	0.06	6.57	4.05	6.57	0.84	740
5/01/2022	0	252	367	6.59	0.32	6.51	3.72	6.73	1.30	700
6/01/2022	0	201	2	6.33	0.86	6.35	3.65	6.65	2.55	760
7/01/2022	0	177		6.41	0.11	6.58		6.71	1.34	880
8/01/2022	8	177		7.07	0.80	6.23		7.29	1.28	920
9/01/2022	0	176		6.29	1.91	6.24		6.86	0.87	955
10/01/2022	0	228		6.19	1.19	6.61		6.44	2.70	890
11/01/2022	0	165	334	6.18	2.25	6.38	3.81	6.74	5.08	830
12/01/2022	0	187	342	5.99	0.13	6.00		6.15	4.10	790
13/01/2022	0	156	301	6.69	2.10	6.77		6.76	2.48	740
14/01/2022	0	182		6.17	1.70	6.16		6.34	4.86	690
15/01/2022	3	134		5.59	3.16	6.80		6.40	2.10	780
16/01/2022	2	174		5.66	3.75	5.37		5.89	1.67	805
17/01/2022	1	162		5.86	3.76	5.74		6.16	5.74	880
18/01/2022	0	184	1	5.83	3.12	5.63		6.20	12.79	940
19/01/2022	0	174	362	5.92	2.78	5.77		6.29	10.72	840
20/01/2022	0	168	338	7.18	2.07	6.81		6.72	7.63	780
21/01/2022	0	145	321	7.17	3.14	6.74		6.67	9.34	720
22/01/2022	0	134		6.70	2.39	6.63		6.64	6.33	800
23/01/2022	0	184		7.55	1.76	7.53		7.52	8.52	860
24/01/2022	0	170		6.88	1.90	6.73		6.74	3.85	900
25/01/2022	3	152	345	6.84	2.45	7.63		8.22	9.76	810
26/01/2022	5	103	249	7.24	4.64	7.03		7.12	5.95	820
27/01/2022	30	242	10	7.16	3.11	7.25		6.78	10.85	840
28/01/2022	0	138	359	7.15	3.40	6.48	5.90	7.32	12.38	800
29/01/2022	0	115	294	7.66	3.50	6.80	5.90	7.19	6.03	760
30/01/2022	0	244	294	7.62	3.34	7.27	4.60	7.68	11.10	700
31/01/2022	0	145		7.18	2.05	7.05	5.09	7.41	3.56	760

Date	Rainfall	Plant Flows		Influent Pond		Aeration Pond		Retention		
	Rainfall mm	Influent m3	Effluent m3	pH units	DO mg/l	pH units	DO mg/l	pH units	DO mg/l	Level mm
1/02/2022	0	167		6.42	4.55	7.12	6.94	6.95	14.28	840
2/02/2022	0	73		6.95	3.77	6.82	7.12	7.81	9.42	860
3/02/2022	0	103		7.02	4.83	6.86	7.06	7.76	12.06	880
4/02/2022	3	72		7.12	1.98	7.10	10.70	7.71	16.28	900
5/02/2022	1	132		7.04	2.09	6.68	4.85	6.95	6.51	800
6/02/2022	0	156		7.20	1.89	7.11	5.25	6.89	0.41	710
7/02/2022	1	182	333	7.12	2.44	6.97	5.22	6.84	4.73	770
8/02/2022	84	111	349	6.86	2.29	6.81	5.29	6.83	1.19	720
9/02/2022	84	186	15	7.53	3.24	6.88	5.71	6.89	3.43	900
10/02/2022	25	152	359	7.50	2.22	7.03	5.68	7.43	5.86	790
11/02/2022	52	225	398	7.28	1.86	7.00	7.01	7.02	3.15	720
12/02/2022	2	36		7.75	3.34	7.98	6.01	7.43	1.90	800
13/02/2022	9	139		7.68	4.51	7.73	8.14	7.39	15.24	860
14/02/2022	4	94		7.71	0.93	7.14	7.00	7.69	8.17	890
15/02/2022	0	94		7.57	12.46	7.17	12.91	7.23	15.75	920
16/02/2022	0	80	349	7.52	2.19	7.62	9.86	7.83	8.75	800
17/02/2022	13	101	391	7.53	2.31	7.49	16.21	7.88	15.04	710
18/02/2022	1	90		7.73	3.04	7.51	5.76	7.84	6.77	760
19/02/2022	0	116		7.45	4.15	7.54	7.23	7.87	10.70	800
20/02/2022	0	96		8.05	3.48	7.95	6.35	7.74	7.28	820
21/02/2022	0	106		7.45	3.22	7.66	6.64	7.34	2.82	860
22/02/2022	0	87		7.53	4.13	7.24	7.15	7.74	4.35	880
23/02/2022	0	106		7.11	1.88	7.58	7.02	7.27	7.04	910
24/02/2022	0	91		7.25	1.70	7.63	7.24	7.57	13.72	940
25/02/2022	0	67	329	7.13	2.90	7.25	4.99	7.62	9.61	800
26/02/2022	0	104		7.57	3.02	7.32	5.77	7.23	8.60	720
27/02/2022	0	119		7.39	4.50	7.05	6.28	7.20	3.21	800
28/02/2022	0	109		8.05	6.20	7.78	13.42	8.09	14.11	860
1/03/2022	0	67		7.56	2.68	7.68	6.88	7.84	11.65	870
2/03/2022	0	49		7.43	5.20	7.42	7.25	7.57	8.95	880
3/03/2022	0	57		7.78	2.43	7.57	7.99	7.79	6.10	900
4/03/2022	5	76		7.61	8.75	7.10	10.23	7.61	19.27	910
5/03/2022	0	71		7.64	3.39	7.58	7.84	7.57	11.31	940
6/03/2022	0	93	369	7.77	4.25	7.52	7.81	7.82	9.20	800
7/03/2022	0	74	375	7.41	2.98	7.71	7.56	7.37	8.05	720
8/03/2022	0	67		7.67	4.08	7.44	9.81	7.71	8.38	780
9/03/2022	0	61		7.59	4.44	7.49	9.10	7.55	9.31	800
10/03/2022	0	50	5	7.78	7.06	7.76	9.12	7.89	8.88	810
11/03/2022	0	77		7.69	4.80	7.53	8.46	7.76	16.14	820
12/03/2022	0	56		7.82	3.31	7.79	8.36	7.68	10.52	820
13/03/2022	1	93		8.14	2.51	7.87	9.89	8.14	7.87	840
14/03/2022	0	87		7.40	5.62	7.46	8.97	8.26	12.40	880
15/03/2022	0	44		7.53	9.47	7.51	10.40	8.01	19.88	890
16/03/2022	0	71		7.48	7.97	7.55	8.98	7.82	11.23	910
17/03/2022	0	45		7.18	7.81	6.76	12.95	7.06	12.73	920
18/03/2022	0	68		6.62	11.04	6.57	10.53	6.94	13.10	930
19/03/2022	0	63	364	7.31	3.79	6.97	7.61	7.17	5.17	820
20/03/2022	0	106		7.10	3.50	7.24	7.16	7.22	10.32	700
21/03/2022	5	65		7.62	4.60	7.19	7.28	7.56	3.16	680
22/03/2022	0	62		7.77	9.78	7.21	8.56	7.23	17.12	770
23/03/2022	12	47		7.49	5.56	7.37	5.02	7.50	1.87	800
24/03/2022	48	72		7.41	4.20	7.54	5.81	7.60	2.04	820
25/03/2022	0	82		7.16	3.69	7.25	6.69	7.51	7.30	860
26/03/2022	6	90		7.05	3.34	6.85	6.34	7.60	13.41	860
27/03/2022	2	101		7.23	5.35	7.02	6.29	6.93	8.05	900
28/03/2022	0	66		7.10	7.02	6.99	7.35	7.06	7.69	930
29/03/2022	0	63		7.25	4.50	6.98	6.65	6.77	7.10	950
30/03/2022	0	67	421	7.20	5.34	7.25	6.68	6.98	4.77	800
31/03/2022	0	81	384	7.55	5.99	6.91	7.23	7.28	5.43	710
Total	0	31024	33019							
Max	95.0	377.0	457.0	8.7	12.5	8.6	16.2	9.5	21.2	1020.0
90th Perceentile										
Min	0.0	0.0	0.0	5.6	0.1	5.4	3.2	5.9	0.4	650.0
Average	4.7	85.5	260	7.5	4.9	7.4	7.0	7.5	7.7	823.2

Hahei WWTP Annual Performance Report
April 2021 to March 2022

Date	Inlet to MFU												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	DR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/04/2021													
2/04/2021													
3/04/2021													
4/04/2021													
5/04/2021													
6/04/2021													
7/04/2021													
8/04/2021													
9/04/2021													
10/04/2021													
11/04/2021													
12/04/2021													
13/04/2021													
14/04/2021													
15/04/2021													
16/04/2021													
17/04/2021													
18/04/2021													
19/04/2021													
20/04/2021													
21/04/2021													
22/04/2021	08:05	21.00	48.50	9.00	0.08	6.91	11.00	9.47	8600.00	22000.00	31.00	567.00	7.56
23/04/2021													
24/04/2021													
25/04/2021													
26/04/2021													
27/04/2021													
28/04/2021													
29/04/2021													
30/04/2021													
1/05/2021													
2/05/2021													
3/05/2021													
4/05/2021													
5/05/2021													
6/05/2021													
7/05/2021													
8/05/2021													
9/05/2021													
10/05/2021													
11/05/2021													
12/05/2021													
13/05/2021													
14/05/2021													
15/05/2021													
16/05/2021													
17/05/2021	16:35	16.00	39.20	11.00	0.25	6.05	10.80	9.06	220.00	1200.00	26.00	563.00	8.00
18/05/2021													
19/05/2021													
20/05/2021													
21/05/2021													
22/05/2021													
23/05/2021													
24/05/2021													
25/05/2021													
26/05/2021													
27/05/2021													
28/05/2021													
29/05/2021													
30/05/2021													
31/05/2021													

Date	Inlet to MFU												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	DR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/06/2021													
2/06/2021													
3/06/2021													
4/06/2021													
5/06/2021													
6/06/2021													
7/06/2021													
8/06/2021													
9/06/2021													
10/06/2021													
11/06/2021													
12/06/2021													
13/06/2021													
14/06/2021													
15/06/2021	16:08	22.00	47.00	5.90	3.80	17.50	7.92	6.78	2700.00	10000.00	25.00	505.00	6.86
16/06/2021													
17/06/2021													
18/06/2021													
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4/07/2021													
5/07/2021													
6/07/2021	09:59	9.70	37.00	2.50	5.90	11.10	6.66	5.52	63.00	1500.00	20.00	491.00	7.86
7/07/2021													
8/07/2021													
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12/08/2021													
13/08/2021													
14/08/2021													
15/08/2021													
16/08/2021													
17/08/2021	07:22	<20	36.00	0.36	16.00	20.30	6.38	4.73	230.00	1000.00	22.00	508.00	7.57
18/08/2021													
19/08/2021													
20/08/2021													
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31/08/2021													

Date	Inlet to MFU												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	DR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/09/2021													
2/09/2021													
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11/09/2021													
12/09/2021													
13/09/2021													
14/09/2021													
15/09/2021	07:02	11.00	35.00	3.00	8.1	13.10	4.47	4.26	45.00	480.00	21.00	467.00	7.58
16/09/2021													
17/09/2021													
18/09/2021													
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30/09/2021													
1/10/2021													
2/10/2021													
3/10/2021													
4/10/2021													
5/10/2021	12:20	3.50	37.20	1.10	11.00	15.40	5.12	4.46	43.00	210.00	30.00	424.00	7.56
6/10/2021													
7/10/2021													
8/10/2021													
9/10/2021													
10/10/2021													
11/10/2021													
12/10/2021													
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28/10/2021													
29/10/2021													
30/10/2021													
31/10/2021													
1/11/2021													
2/11/2021	10:30	10.00	22.40	0.09	19.00	26.50	6.72	7.10	44.00	860.00	21.00	848.00	7.36
3/11/2021													
4/11/2021													
5/11/2021													
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28/11/2021													
29/11/2021													
30/11/2021													

Date	Inlet to MFU												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	DR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/12/2021													
2/12/2021													
3/12/2021													
4/12/2021													
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24/12/2021													
25/12/2021													
26/12/2021													
27/12/2021													
28/12/2021													
29/12/2021	10:00	9.70	30.00	2.30	11.00	14.00	7.06	5.88	1200.00	3300.00	19.00	872.00	7.48
30/12/2021													
31/12/2021													
1/01/2022													
2/01/2022													
3/01/2022													
4/01/2022													
5/01/2022	15:30	18.00	41.00	0.72	18.00	25.10	10.90	9.04	1600.00	5400.00	27.00	872.00	7.48
6/01/2022													
7/01/2022													
8/01/2022													
9/01/2022													
10/01/2022													
11/01/2022													
12/01/2022													
13/01/2022	10:00	34.00	56.00	3.10	2.70	12.10	10.20	8.53	2700.00	4200.00	28.00	626.00	6.17
14/01/2022													
15/01/2022													
16/01/2022													
17/01/2022													
18/01/2022													
19/01/2022													
20/01/2022	15:41	26.00	86.00	3.00	0.14	9.58	10.80	8.81	2700.00	10000.00	40.00	635.00	7.22
21/01/2022													
22/01/2022													
23/01/2022													
24/01/2022													
25/01/2022													
26/01/2022	07:33	20.00	52.40	3.10	0.22	8.32	12.80	9.49	2900.00	6400.00	33.00	628.00	7.37
27/01/2022													
28/01/2022													
29/01/2022													
30/01/2022													
31/01/2022													
1/02/2022													
2/02/2022	14:34	20.00	80.50	0.74	0.66	10.40	14.60	14.00	2900.00	2600.00	39.00	717.00	7.57
3/02/2022													
4/02/2022													
5/02/2022													
6/02/2022													
7/02/2022													
8/02/2022	06:58	21.00	81.00	8.10	0.08	2.50	11.50	9.99	3700.00	13000.00	37.00	653.00	7.29
9/02/2022													
10/02/2022													
11/02/2022													
12/02/2022													
13/02/2022													
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24/02/2022													
25/02/2022													
26/02/2022													
27/02/2022													
28/02/2022													
1/03/2022													

Date	Inlet to MFU												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	DR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
2/03/2022													
3/03/2022													
4/03/2022													
5/03/2022													
6/03/2022													
7/03/2022													
8/03/2022													
9/03/2022													
10/03/2022	07:11	19.00	96.00	1.80	0.87	9.77	11.00	6.75	1400.00	5200.00	55.00	703.00	8.44
11/03/2022													
12/03/2022													
13/03/2022													
14/03/2022													
15/03/2022													
16/03/2022													
17/03/2022													
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25/03/2022													
26/03/2022													
27/03/2022													
28/03/2022													
29/03/2022													
30/03/2022													
31/03/2022													
Total													
Max		34.0	96.0	11.0	19.0	26.5	14.6	14.0	8600.0	22000.0	55.0	872.0	8.4
90th Perceentile													
Min		3.5	22.4	0.1	0.1	2.5	4.5	4.3	43.0	210.0	19.0	424.0	6.2
Average		17.4	51.6	3.5	6.1	13.0	9.2	7.7	1940.3	5459.4	29.6	629.9	7.5

Hahei WWTP Annual Performance Report
April 2021 to March 2022

Date	Effluent Discharge												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/04/2021													
2/04/2021													
3/04/2021													
4/04/2021													
5/04/2021													
6/04/2021													
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15/04/2021													
16/04/2021													
17/04/2021													
18/04/2021													
19/04/2021													
20/04/2021													
21/04/2021													
22/04/2021	08:05	0.82	1.00	8.60	0.04	1.51	10.30	9.15	1.60	4.90	0.25	567.00	7.70
23/04/2021													
24/04/2021													
25/04/2021													
26/04/2021													
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28/04/2021													
29/04/2021													
30/04/2021													
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11/05/2021													
12/05/2021													
13/05/2021													
14/05/2021													
15/05/2021													
16/05/2021													
17/05/2021	16:35	2.50	8.00	11.00	0.18	2.16	10.40	8.42	1.59	1.59	1.20	565.00	8.09
18/05/2021													
19/05/2021													
20/05/2021													
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28/05/2021													
29/05/2021													
30/05/2021													
31/05/2021													

Date	Effluent Discharge												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/06/2021													
2/06/2021													
3/06/2021													
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10/06/2021													
11/06/2021													
12/06/2021													
13/06/2021													
14/06/2021													
15/06/2021	16:08	3.00	1.20	6.10	2.60	3.93	6.67	6.72	1.59	1.59	2.20	539.00	6.94
16/06/2021													
17/06/2021													
18/06/2021													
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1/07/2021													
2/07/2021													
3/07/2021													
4/07/2021													
5/07/2021													
6/07/2021	09:59	2.20	2.80	1.00	0.16	4.04	5.72	5.22	6.60	76.00	7.20	1174.00	7.78
7/07/2021													
8/07/2021													
9/07/2021													
10/07/2021													
11/07/2021													
12/07/2021													
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12/08/2021													
13/08/2021													
14/08/2021													
15/08/2021													
16/08/2021													
17/08/2021	07:22	3.10	<1.0	0.18	17.00	16.40	5.82	5.06	1.60	1.59	1.10	509.00	7.65
18/08/2021													
19/08/2021													
20/08/2021													
21/08/2021													
22/08/2021													
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27/08/2021													
28/08/2021													
29/08/2021													
30/08/2021													
31/08/2021													

Date	Effluent Discharge												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/09/2021													
2/09/2021													
3/09/2021													
4/09/2021													
5/09/2021													
6/09/2021													
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9/09/2021													
10/09/2021													
11/09/2021													
12/09/2021													
13/09/2021													
14/09/2021													
15/09/2021	07:02	6.70	3.80	2.00	8.00	10.40	4.13	3.97	1.59	1.59	0.55	478.00	7.61
16/09/2021													
17/09/2021													
18/09/2021													
19/09/2021													
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30/09/2021													
1/10/2021													
2/10/2021													
3/10/2021													
4/10/2021													
5/10/2021	12:20	3.80	4.60	0.24	10.00	12.20	3.98	3.89	3.30	5.00	1.80	440.00	7.61
6/10/2021													
7/10/2021													
8/10/2021													
9/10/2021													
10/10/2021													
11/10/2021													
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28/10/2021													
29/10/2021													
30/10/2021													
31/10/2021													
1/11/2021													
2/11/2021	10:30	2.80	<1.0	0.01	17.00	18.50	6.32	5.34	<1.6	<1.6	0.50	808.00	7.42
3/11/2021													
4/11/2021													
5/11/2021													
6/11/2021													
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9/11/2021													
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29/11/2021													
30/11/2021													

Date	Effluent Discharge												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/12/2021													
2/12/2021													
3/12/2021													
4/12/2021													
5/12/2021													
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23/12/2021													
24/12/2021													
25/12/2021													
26/12/2021													
27/12/2021													
28/12/2021													
29/12/2021	10:00	2.60	<1.0	4.30	8.00	10.00	5.73	5.68	210.00	1.60	0.20	929.00	7.57
30/12/2021													
31/12/2021													
1/01/2022													
2/01/2022													
3/01/2022													
4/01/2022													
5/01/2022	15:30	5.50	6.50	2.50	18.00	20.50	9.39	8.83	1.59	1.59	2.20	929.00	7.57
6/01/2022													
7/01/2022													
8/01/2022													
9/01/2022													
10/01/2022													
11/01/2022													
12/01/2022													
13/01/2022	10:00	12.00	4.80	11.00	2.20	4.14	9.77	8.72	1.59	6.60	1.20	628.00	5.96
14/01/2022													
15/01/2022													
16/01/2022													
17/01/2022													
18/01/2022													
19/01/2022													
20/01/2022	15:41	2.10	3.60	11.00	0.04	2.05	9.31	8.92	1.59	8.30	0.25	631.00	7.00
21/01/2022													
22/01/2022													
23/01/2022													
24/01/2022													
25/01/2022													
26/01/2022	07:33	0.88	<1.0	8.80	0.02	1.98	10.80	9.59	1.59	1.59	0.80	625.00	7.44
27/01/2022													
28/01/2022													
29/01/2022													
30/01/2022													
31/01/2022													
1/02/2022													
2/02/2022	14:34	6.60	6.00	0.66	0.89	2.83	10.90	10.40	1.59	3.30	2.20	644.00	7.37
3/02/2022													
4/02/2022													
5/02/2022													
6/02/2022													
7/02/2022													
8/02/2022	06:58	1.50	2.40	8.00	0.07	1.95	9.93	9.68	1.59	6.60	0.20	614.00	7.14
9/02/2022													
10/02/2022													
11/02/2022													
12/02/2022													
13/02/2022													
14/02/2022													
15/02/2022													
16/02/2022													
17/02/2022													
18/02/2022													
19/02/2022													
20/02/2022													
21/02/2022													
22/02/2022													
23/02/2022													
24/02/2022													
25/02/2022													
26/02/2022													
27/02/2022													
28/02/2022													
1/03/2022													

Date	Effluent Discharge												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
2/03/2022													
3/03/2022													
4/03/2022													
5/03/2022													
6/03/2022													
7/03/2022													
8/03/2022													
9/03/2022													
10/03/2022	07:11	1.70	2.20	0.34	0.98	2.24	8.61	7.84	1.59	1.60	0.80	583.00	8.43
11/03/2022													
12/03/2022													
13/03/2022													
14/03/2022													
15/03/2022													
16/03/2022													
17/03/2022													
18/03/2022													
19/03/2022													
20/03/2022													
21/03/2022													
22/03/2022													
23/03/2022													
24/03/2022													
25/03/2022													
26/03/2022													
27/03/2022													
28/03/2022													
29/03/2022													
30/03/2022													
31/03/2022													
Total													
Max		12.0	8.0	11.0	18.0	20.5	10.9	10.4	210.0	76.0	7.2	1174.0	8.4
90th Perceentile		6.7	6.5	11.0	17.0	17.5	10.6	9.6	5.3	7.6	2.2	929.0	7.9
Min		0.8	1.0	0.0	0.0	1.5	4.0	3.9	1.6	1.6	0.2	440.0	6.0
Average		3.6	3.9	4.7	5.3	7.2	8.0	7.3	15.9	8.2	1.4	666.4	7.5

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Date	Wigmore Stream 50m Upstream												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/04/2021													
2/04/2021													
3/04/2021													
4/04/2021													
5/04/2021													
6/04/2021													
7/04/2021													
8/04/2021													
9/04/2021													
10/04/2021													
11/04/2021													
12/04/2021													
13/04/2021													
14/04/2021													
15/04/2021													
16/04/2021													
17/04/2021													
18/04/2021													
19/04/2021													
20/04/2021													
21/04/2021													
22/04/2021	08:05	0.57	5.60	0.02	0.05	0.45	0.04	0.02	420.00	370.00	2.40	1620.00	6.52
23/04/2021													
24/04/2021													
25/04/2021													
26/04/2021													
27/04/2021													
28/04/2021													
29/04/2021													
30/04/2021													
1/05/2021													
2/05/2021													
3/05/2021													
4/05/2021													
5/05/2021													
6/05/2021													
7/05/2021													
8/05/2021													
9/05/2021													
10/05/2021													
11/05/2021													
12/05/2021													
13/05/2021													
14/05/2021													
15/05/2021													
16/05/2021													
17/05/2021	16:35	1.00	20.80	0.02	0.03	0.40	0.03	0.01	490.00	200.00	3.30	6100.00	6.71
18/05/2021													
19/05/2021													
20/05/2021													
21/05/2021													
22/05/2021													
23/05/2021													
24/05/2021													
25/05/2021													
26/05/2021													
27/05/2021													
28/05/2021													
29/05/2021													
30/05/2021													
31/05/2021													

Date	Wigmore Stream 50m Upstream												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/06/2021													
2/06/2021													
3/06/2021													
4/06/2021													
5/06/2021													
6/06/2021													
7/06/2021													
8/06/2021													
9/06/2021													
10/06/2021													
11/06/2021													
12/06/2021													
13/06/2021													
14/06/2021													
15/06/2021	16:08	1.70	37.80	0.23	0.09	0.68	0.27	0.05	2400.00	1100.00	17.00	390.00	7.29
16/06/2021													
17/06/2021													
18/06/2021													
19/06/2021													
20/06/2021													
21/06/2021													
22/06/2021													
23/06/2021													
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27/06/2021													
28/06/2021													
29/06/2021													
30/06/2021													
1/07/2021													
2/07/2021													
3/07/2021													
4/07/2021													
5/07/2021													
6/07/2021	09:59	1.10	16.20	0.04	0.14	0.62	0.04	0.01	46.00	250.00	4.60	926.00	7.98
7/07/2021													
8/07/2021													
9/07/2021													
10/07/2021													
11/07/2021													
12/07/2021													
13/07/2021													
14/07/2021													
15/07/2021													
16/07/2021													
17/07/2021													
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31/07/2021													
1/08/2021													
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9/08/2021													
10/08/2021													
11/08/2021													
12/08/2021													
13/08/2021													
14/08/2021													
15/08/2021													
16/08/2021													
17/08/2021	07:22	0.59	1.40	0.03	0.05	0.28	0.02	0.01	20.00	190.00	1.50	918.00	7.50
18/08/2021													
19/08/2021													
20/08/2021													
21/08/2021													
22/08/2021													
23/08/2021													
24/08/2021													
25/08/2021													
26/08/2021													
27/08/2021													
28/08/2021													
29/08/2021													
30/08/2021													
31/08/2021													

Date	Wigmore Stream 50m Upstream												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/09/2021													
2/09/2021													
3/09/2021													
4/09/2021													
5/09/2021													
6/09/2021													
7/09/2021													
8/09/2021													
9/09/2021													
10/09/2021													
11/09/2021													
12/09/2021													
13/09/2021													
14/09/2021													
15/09/2021	07:02	1.80	11.20	0.14	0.06	0.92	0.08	0.02	5700.00	16000.00	13.00	184.00	8.11
16/09/2021													
17/09/2021													
18/09/2021													
19/09/2021													
20/09/2021													
21/09/2021													
22/09/2021													
23/09/2021													
24/09/2021													
25/09/2021													
26/09/2021													
27/09/2021													
28/09/2021													
29/09/2021													
30/09/2021													
1/10/2021													
2/10/2021													
3/10/2021													
4/10/2021													
5/10/2021	12:20	1.40	3.20	0.03	0.03	0.37	0.03	0.01	330.00	270.00	5.20	169.50	8.41
6/10/2021													
7/10/2021													
8/10/2021													
9/10/2021													
10/10/2021													
11/10/2021													
12/10/2021													
13/10/2021													
14/10/2021													
15/10/2021													
16/10/2021													
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25/10/2021													
26/10/2021													
27/10/2021													
28/10/2021													
29/10/2021													
30/10/2021													
31/10/2021													
1/11/2021													
2/11/2021	10:30	0.51	2.60	0.04	0.02	0.34	0.03	0.01	43.00	280.00	2.60	310.00	7.90
3/11/2021													
4/11/2021													
5/11/2021													
6/11/2021													
7/11/2021													
8/11/2021													
9/11/2021													
10/11/2021													
11/11/2021													
12/11/2021													
13/11/2021													
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25/11/2021													
26/11/2021													
27/11/2021													
28/11/2021													
29/11/2021													
30/11/2021													

Date	Wigmore Stream 50m Upstream												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
1/12/2021													
2/12/2021													
3/12/2021													
4/12/2021													
5/12/2021													
6/12/2021													
7/12/2021													
8/12/2021													
9/12/2021													
10/12/2021													
11/12/2021													
12/12/2021													
13/12/2021													
14/12/2021													
15/12/2021													
16/12/2021													
17/12/2021													
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20/12/2021													
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22/12/2021													
23/12/2021													
24/12/2021													
25/12/2021													
26/12/2021													
27/12/2021													
28/12/2021													
29/12/2021	10:00	1.30	84.00	0.03	0.12	1.08	0.11	0.01	420.00	470.00	22.00	20.87	6.85
30/12/2021													
31/12/2021													
1/01/2022													
2/01/2022													
3/01/2022													
4/01/2022													
5/01/2022	15:30	1.80	19.20	0.24	0.82	1.71	0.38	0.21	7900.00	1500.00	3.90	20.87	6.85
6/01/2022													
7/01/2022													
8/01/2022													
9/01/2022													
10/01/2022													
11/01/2022													
12/01/2022													
13/01/2022	10:00	1.80	46.40	0.08	0.04	0.75	0.06	0.02	220.00	1200.00	6.40	14.72	5.49
14/01/2022													
15/01/2022													
16/01/2022													
17/01/2022													
18/01/2022													
19/01/2022													
20/01/2022	15:41	3.00	138.00	0.78	0.04	1.06	0.89	0.49	2100.00	570.00	12.00	28.90	6.02
21/01/2022													
22/01/2022													
23/01/2022													
24/01/2022													
25/01/2022													
26/01/2022	07:33	1.80	12.20	0.03	0.04	0.61	0.08	0.02	29000.00	20000.00	6.10	2510.00	7.39
27/01/2022													
28/01/2022													
29/01/2022													
30/01/2022													
31/01/2022													
1/02/2022													
2/02/2022	14:34	1.10	40.80	0.04	0.03	0.41	0.09	0.05	1900.00	4600.00	3.70	610.00	6.57
3/02/2022													
4/02/2022													
5/02/2022													
6/02/2022													
7/02/2022													
8/02/2022	06:58	0.73	6.80	0.05	0.03	0.62	0.05	0.01	4400.00	2200.00	4.40	1490.00	6.69
9/02/2022													
10/02/2022													
11/02/2022													
12/02/2022													
13/02/2022													
14/02/2022													
15/02/2022													
16/02/2022													
17/02/2022													
18/02/2022													
19/02/2022													
20/02/2022													
21/02/2022													
22/02/2022													
23/02/2022													
24/02/2022													
25/02/2022													
26/02/2022													
27/02/2022													
28/02/2022													
1/03/2022													

Date	Wigmore Stream 50m Upstream												
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units
2/03/2022													
3/03/2022													
4/03/2022													
5/03/2022													
6/03/2022													
7/03/2022													
8/03/2022													
9/03/2022													
10/03/2022	07:11	0.68	11.40	0.01	0.03	0.33	0.04	0.03	3500.00	3500.00	6.70	4.57	7.42
11/03/2022													
12/03/2022													
13/03/2022													
14/03/2022													
15/03/2022													
16/03/2022													
17/03/2022													
18/03/2022													
19/03/2022													
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24/03/2022													
25/03/2022													
26/03/2022													
27/03/2022													
28/03/2022													
29/03/2022													
30/03/2022													
31/03/2022													
Total													
Max		3.0	138.0	0.8	0.8	1.7	0.9	0.5	29000.0	20000.0	22.0	6100.0	8.4
90th Perceentile													
Min		0.5	1.4	0.0	0.0	0.3	0.0	0.0	20.0	190.0	1.5	4.6	5.5
Average		1.3	28.6	0.1	0.1	0.7	0.1	0.1	3680.6	3293.8	7.2	957.3	7.1

Hahei WWTP Annual Performance Report
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Date	Wigmore Stream 50m Downstream													Low Tide
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units	Time
1/04/2021														
2/04/2021														
3/04/2021														
4/04/2021														
5/04/2021														
6/04/2021														
7/04/2021														
8/04/2021														
9/04/2021														
10/04/2021														
11/04/2021														
12/04/2021														
13/04/2021														
14/04/2021														
15/04/2021														
16/04/2021														
17/04/2021														
18/04/2021														
19/04/2021														
20/04/2021														
21/04/2021														
22/04/2021	08:05	0.59	8.80	0.66	0.07	0.52	0.55	0.49	730.00	670.00	3.80	5891.00	6.94	08:05
23/04/2021														
24/04/2021														
25/04/2021														
26/04/2021														
27/04/2021														
28/04/2021														
29/04/2021														
30/04/2021														
1/05/2021														
2/05/2021														
3/05/2021														
4/05/2021														
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7/05/2021														
8/05/2021														
9/05/2021														
10/05/2021														
11/05/2021														
12/05/2021														
13/05/2021														
14/05/2021														
15/05/2021														
16/05/2021														
17/05/2021	16:35	1.20	71.60	0.03	0.03	0.44	0.04	0.02	2400.00	1100.00	4.30	24900.00	7.32	16:35
18/05/2021														
19/05/2021														
20/05/2021														
21/05/2021														
22/05/2021														
23/05/2021														
24/05/2021														
25/05/2021														
26/05/2021														
27/05/2021														
28/05/2021														
29/05/2021														
30/05/2021														
31/05/2021														

Date	Wigmore Stream 50m Downstream													Low Tide
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units	Time
1/06/2021														
2/06/2021														
3/06/2021														
4/06/2021														
5/06/2021														
6/06/2021														
7/06/2021														
8/06/2021														
9/06/2021														
10/06/2021														
11/06/2021														
12/06/2021														
13/06/2021														
14/06/2021														
15/06/2021	16:08	1.50	5.20	0.27	0.07	0.55	0.04	0.02	1700.00	1100.00	6.70	492.00	7.01	16:08
16/06/2021														
17/06/2021														
18/06/2021														
19/06/2021														
20/06/2021														
21/06/2021														
22/06/2021														
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27/06/2021														
28/06/2021														
29/06/2021														
30/06/2021														
1/07/2021														
2/07/2021														
3/07/2021														
4/07/2021														
5/07/2021														
6/07/2021	09:59	0.81	25.20	0.10	0.10	0.30	0.02	0.01	100.00	470.00	3.20	1248.00	6.87	09:59
7/07/2021														
8/07/2021														
9/07/2021														
10/07/2021														
11/07/2021														
12/07/2021														
13/07/2021														
14/07/2021														
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29/07/2021														
30/07/2021														
31/07/2021														
1/08/2021														
2/08/2021														
3/08/2021														
4/08/2021														
5/08/2021														
6/08/2021														
7/08/2021														
8/08/2021														
9/08/2021														
10/08/2021														
11/08/2021														
12/08/2021														
13/08/2021														
14/08/2021														
15/08/2021														
16/08/2021														
17/08/2021	07:22	0.60	51.20	0.03	0.04	0.22	0.02	0.01	68.00	990.00	1.50	186.00	6.39	07:22
18/08/2021														
19/08/2021														
20/08/2021														
21/08/2021														
22/08/2021														
23/08/2021														
24/08/2021														
25/08/2021														
26/08/2021														
27/08/2021														
28/08/2021														
29/08/2021														
30/08/2021														
31/08/2021														

Date	Wigmore Stream 50m Downstream													Low Tide
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units	Time
1/09/2021														
2/09/2021														
3/09/2021														
4/09/2021														
5/09/2021														
6/09/2021														
7/09/2021														
8/09/2021														
9/09/2021														
10/09/2021														
11/09/2021														
12/09/2021														
13/09/2021														
14/09/2021														
15/09/2021	07:02	2.00	21.80	0.13	0.04	0.88	0.06	0.02	8100.00	19000.00	17.00	1192.00	7.60	07:02
16/09/2021														
17/09/2021														
18/09/2021														
19/09/2021														
20/09/2021														
21/09/2021														
22/09/2021														
23/09/2021														
24/09/2021														
25/09/2021														
26/09/2021														
27/09/2021														
28/09/2021														
29/09/2021														
30/09/2021														
1/10/2021														
2/10/2021														
3/10/2021														
4/10/2021														
5/10/2021	12:20	1.00	12.00	0.07	0.04	0.32	0.03	0.01	100.00	530.00	3.50	2.63	7.12	12:20
6/10/2021														
7/10/2021														
8/10/2021														
9/10/2021														
10/10/2021														
11/10/2021														
12/10/2021														
13/10/2021														
14/10/2021														
15/10/2021														
16/10/2021														
17/10/2021														
18/10/2021														
19/10/2021														
20/10/2021														
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22/10/2021														
23/10/2021														
24/10/2021														
25/10/2021														
26/10/2021														
27/10/2021														
28/10/2021														
29/10/2021														
30/10/2021														
31/10/2021														
1/11/2021														
2/11/2021	10:30	<0.5	10.20	0.03	0.03	0.28	0.03	0.01	110.00	430.00	2.60	3.34	6.94	10:30
3/11/2021														
4/11/2021														
5/11/2021														
6/11/2021														
7/11/2021														
8/11/2021														
9/11/2021														
10/11/2021														
11/11/2021														
12/11/2021														
13/11/2021														
14/11/2021														
15/11/2021														
16/11/2021														
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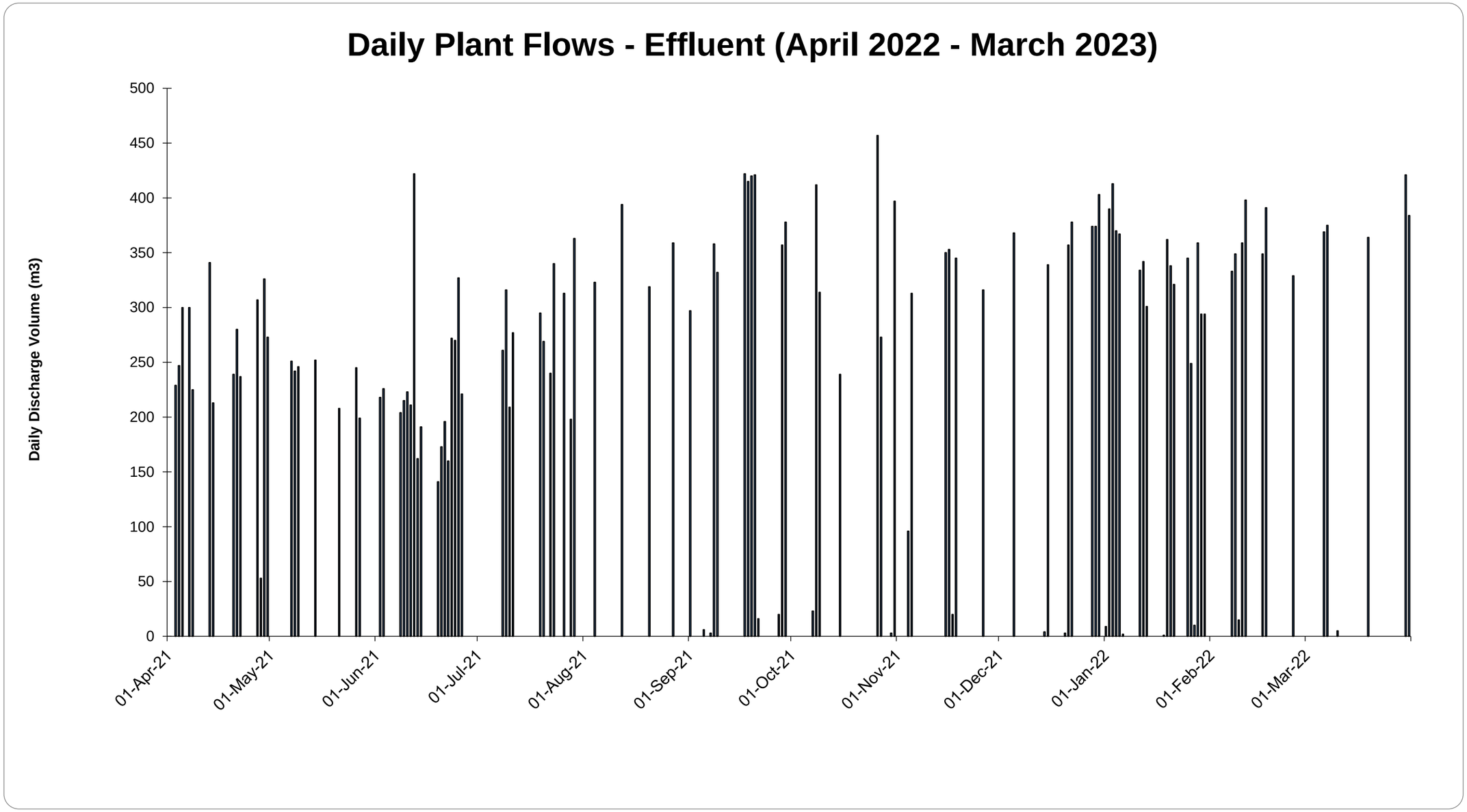
24/11/2021														
25/11/2021														
26/11/2021														
27/11/2021														
28/11/2021														
29/11/2021														
30/11/2021														

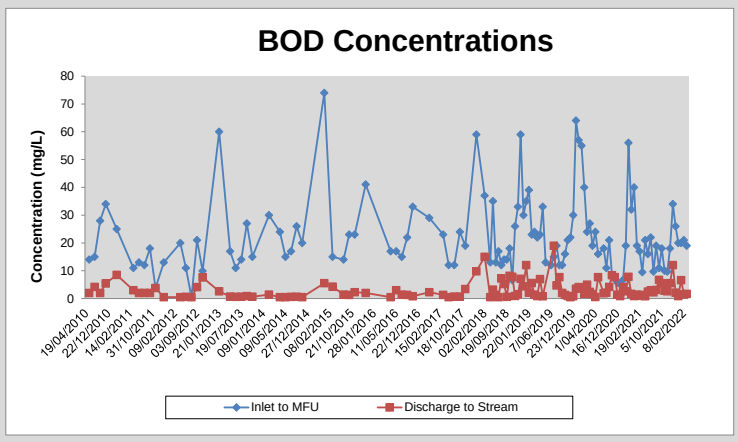
Date	Wigmore Stream 50m Downstream													Low Tide
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units	Time
1/12/2021														
2/12/2021														
3/12/2021														
4/12/2021														
5/12/2021														
6/12/2021														
7/12/2021														
8/12/2021														
9/12/2021														
10/12/2021														
11/12/2021														
12/12/2021														
13/12/2021														
14/12/2021														
15/12/2021														
16/12/2021														
17/12/2021														
18/12/2021														
19/12/2021														
20/12/2021														
21/12/2021														
22/12/2021														
23/12/2021														
24/12/2021														
25/12/2021														
26/12/2021														
27/12/2021														
28/12/2021														
29/12/2021	10:00	1.30	23.60	0.32	0.71	1.29	0.46	0.31	520.00	270.00	5.00	40.70	7.08	10:00
30/12/2021														
31/12/2021														
1/01/2022														
2/01/2022														
3/01/2022														
4/01/2022														
5/01/2022	15:30	1.90	31.60	0.33	1.10	1.73	0.52	0.45	1700.00	1300.00	2.80	40.70	7.08	15:30
6/01/2022														
7/01/2022														
8/01/2022														
9/01/2022														
10/01/2022														
11/01/2022														
12/01/2022														
13/01/2022	10:00	2.70	131.00	0.18	0.06	1.03	0.29	0.24	26.00	21.00	4.50	38.00	5.69	10:00
14/01/2022														
15/01/2022														
16/01/2022														
17/01/2022														
18/01/2022														
19/01/2022														
20/01/2022	15:41	4.50	129.00	0.26	0.01	0.92	0.52	0.47	270.00	84.00	5.40	34.40	6.33	15:41
21/01/2022														
22/01/2022														
23/01/2022														
24/01/2022														
25/01/2022														
26/01/2022	07:33	2.00	12.20	0.26	0.08	0.71	0.19	0.08	55000.00	11000.00	8.40	3550.00	7.40	07:33
27/01/2022														
28/01/2022														
29/01/2022														
30/01/2022														
31/01/2022														
1/02/2022														
2/02/2022	14:34	13.00	194.00	<0.002	0.05	1.17	0.37	0.15	580.00	1500.00	9.30	18.38	6.17	14:34
3/02/2022														
4/02/2022														
5/02/2022														
6/02/2022														
7/02/2022														
8/02/2022	06:58	0.69	16.80	0.56	0.05	0.69	0.57	0.45	4900.00	1500.00	4.50	2.67	6.46	06:58
9/02/2022														
10/02/2022														
11/02/2022														
12/02/2022														
13/02/2022														
14/02/2022														
15/02/2022														
16/02/2022														
17/02/2022														
18/02/2022														
19/02/2022														
20/02/2022														
21/02/2022														
22/02/2022														
23/02/2022														
24/02/2022														
25/02/2022														
26/02/2022														
27/02/2022														
28/02/2022														
1/03/2022														

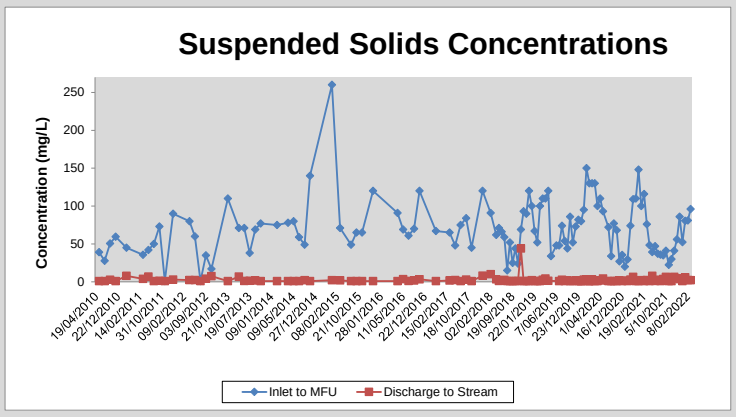
Date	Wigmore Stream 50m Downstream													Low Tide
	Time	CBOD mg/L	SS mg/l	Nitrate mg/l	Ammoniacal N mg/L	TKN mg/L	T P mg/L	SR P mg/L	Enterococci /100mL	E. Coli /100mL	Turbidity NTU	Conductivity µS/cm	pH units	Time
2/03/2022														
3/03/2022														
4/03/2022														
5/03/2022														
6/03/2022														
7/03/2022														
8/03/2022														
9/03/2022														
10/03/2022	07:11	0.78	20.20	0.03	0.05	0.41	0.09	0.05	500.00	1000.00	4.40	18.57	6.88	07:11
11/03/2022														
12/03/2022														
13/03/2022														
14/03/2022														
15/03/2022														
16/03/2022														
17/03/2022														
18/03/2022														
19/03/2022														
20/03/2022														
21/03/2022														
22/03/2022														
23/03/2022														
24/03/2022														
25/03/2022														
26/03/2022														
27/03/2022														
28/03/2022														
29/03/2022														
30/03/2022														
31/03/2022														
Total														
Max		13.0	194.0	0.7	1.1	1.7	0.6	0.5	55000.0	19000.0	17.0	24900.0	7.6	
90th Perceentile														
Min		0.6	5.2	0.0	0.0	0.2	0.0	0.0	26.0	21.0	1.5	2.6	5.7	
Average		2.3	47.8	0.2	0.2	0.7	0.2	0.2	4800.3	2560.3	5.4	2353.6	6.8	

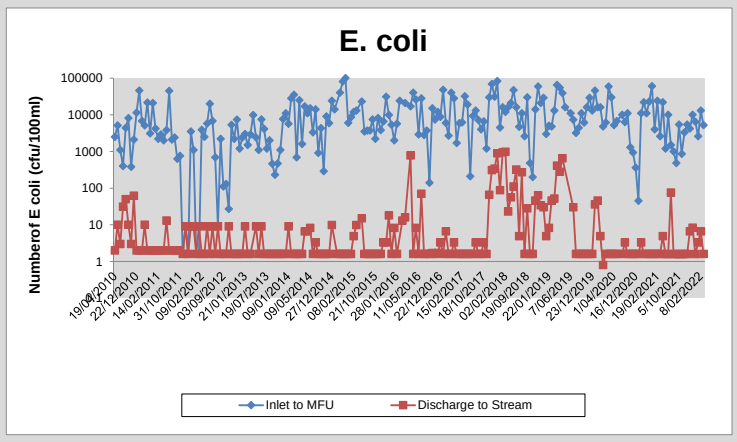

Daily Plant Flows - Effluent (April 2022 - March 2023)
Daily Discharge Volume (m3)
500
450
400
350
300
250
200
150
100
50
0
01-Apr-21
01-May-21
01-Jun-21
01-Jul-21
01-Aug-21
01-Sep-21
01-Oct-21
01-Nov-21
01-Dec-21
01-Jan-22
01-Feb-22
01-Mar-22

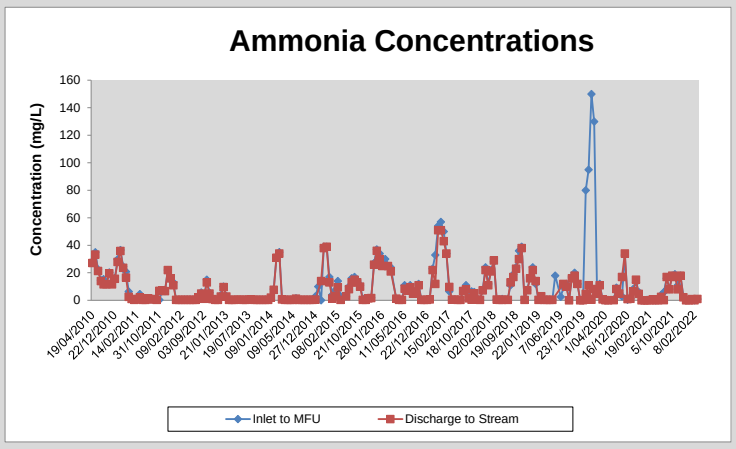
Effluent Trends

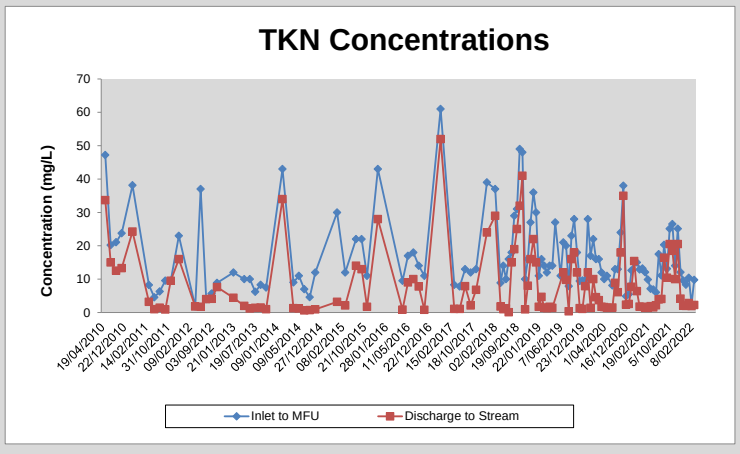
April 2010 to March 2022

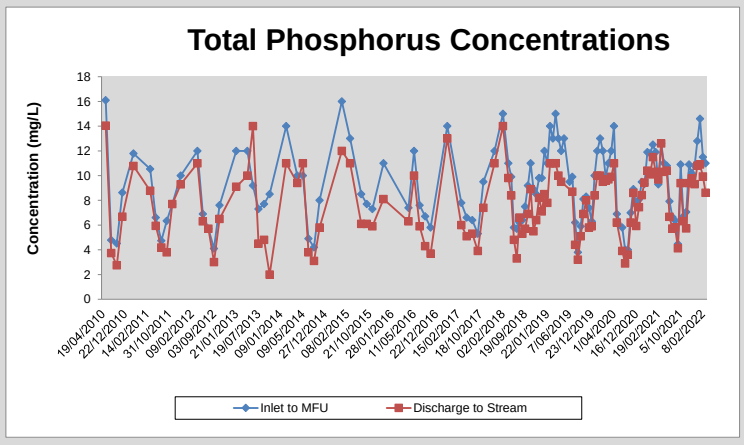






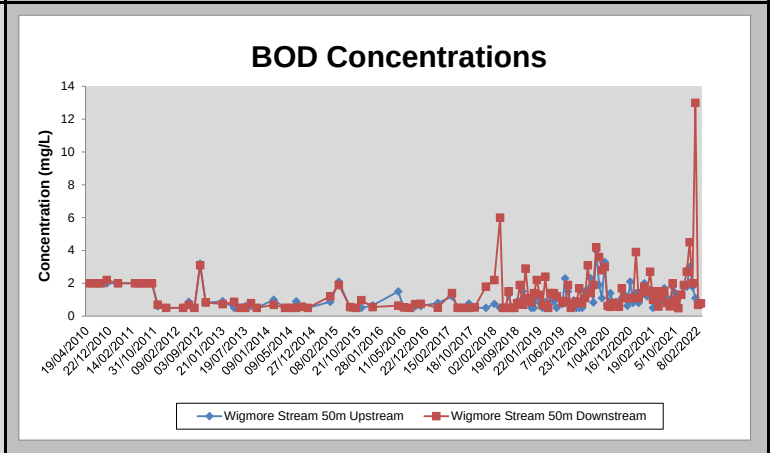


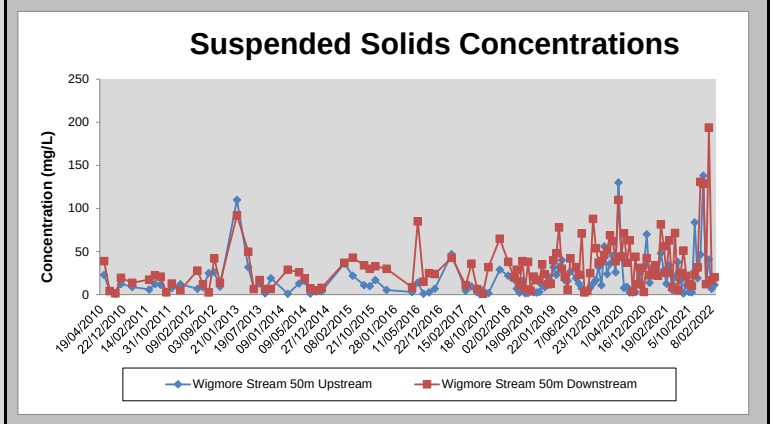


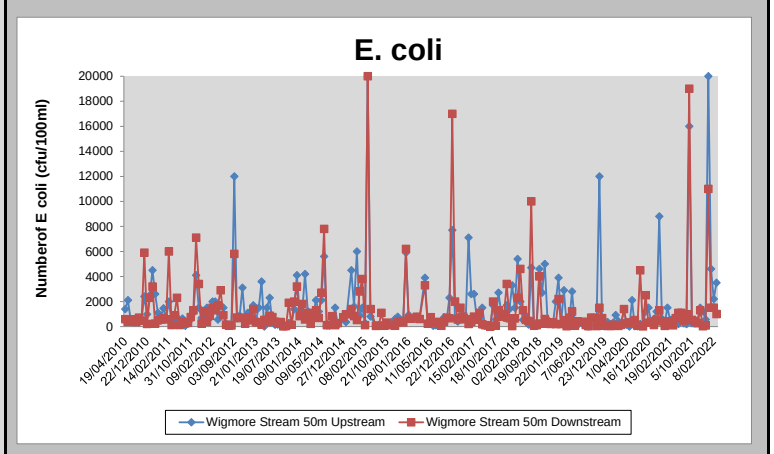


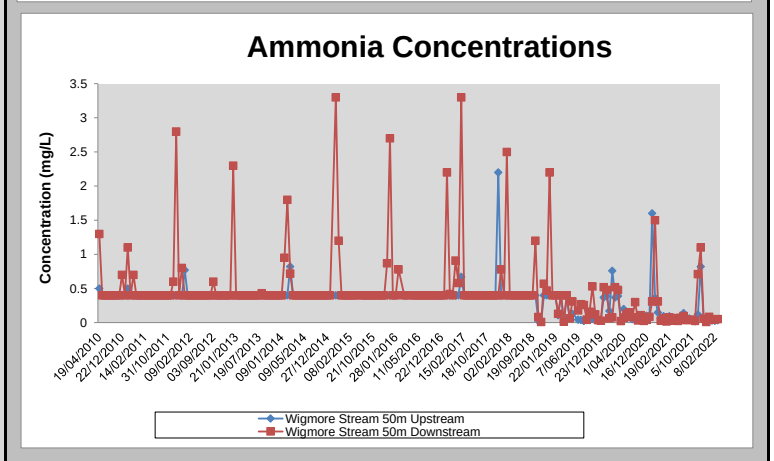
Upstream/Downstream Trends

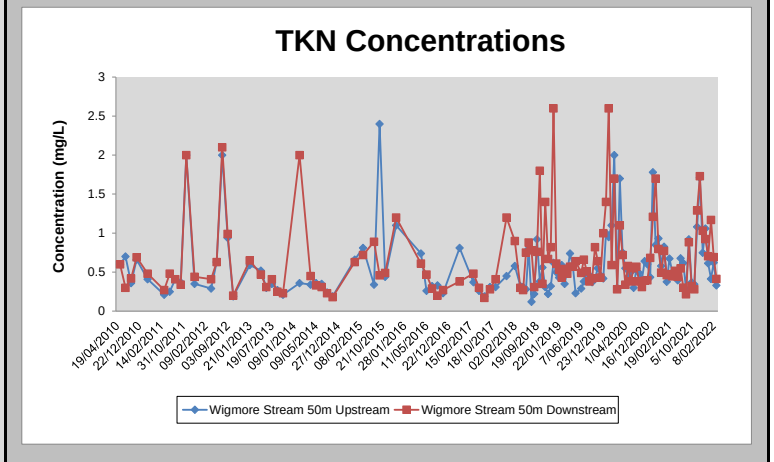
April 2010 to March 2022

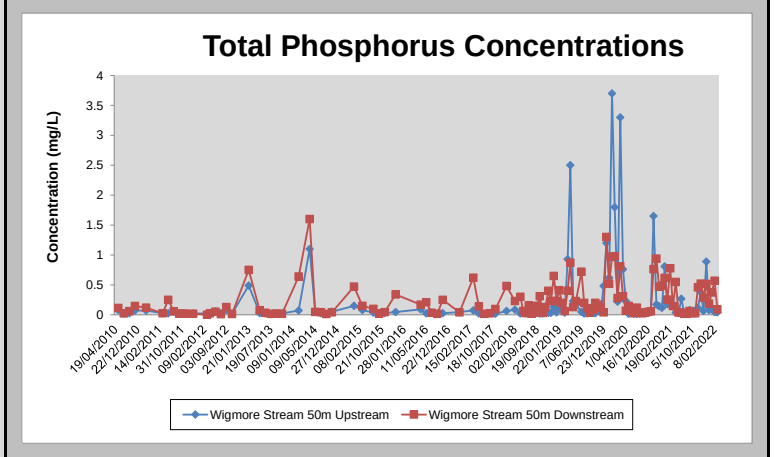






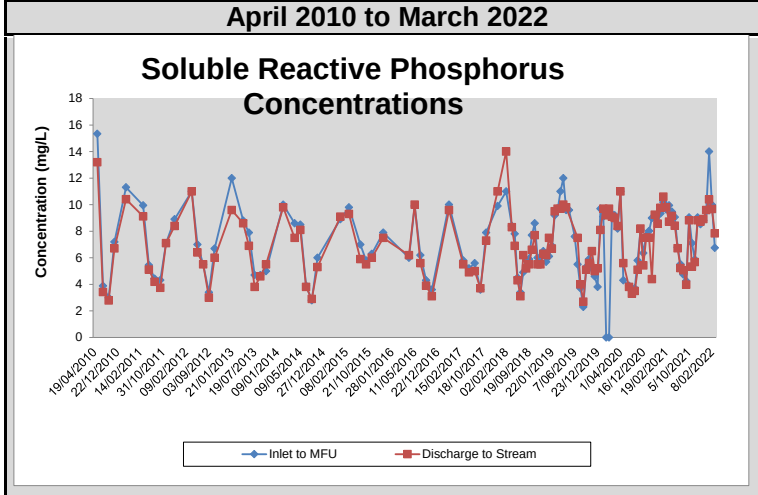


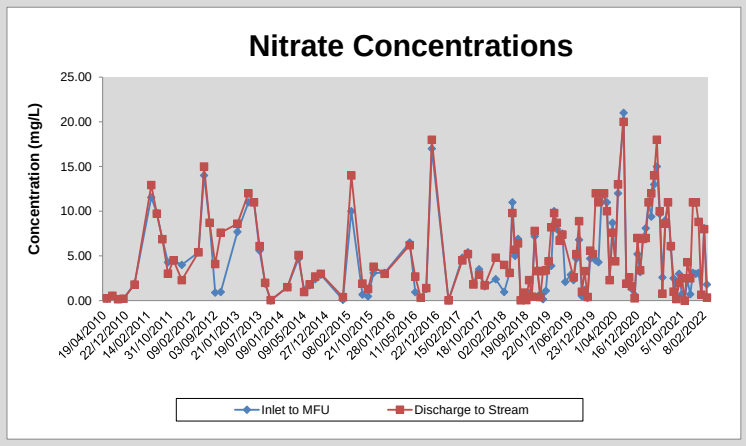


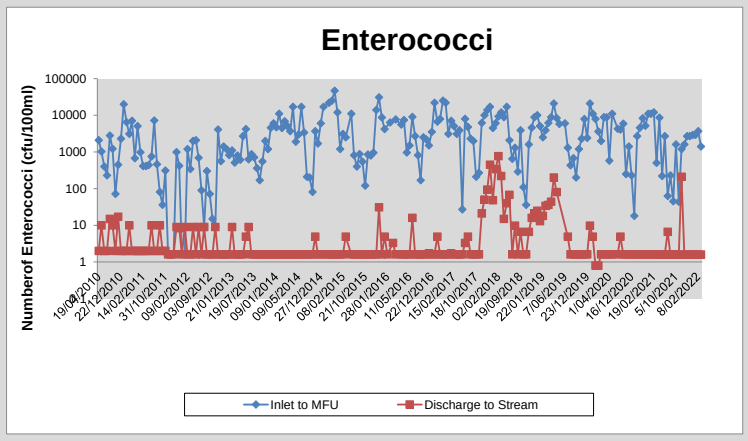


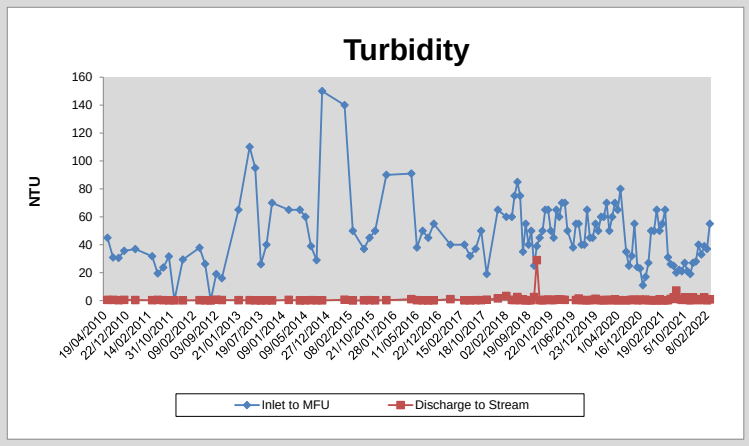
Effluent Trends

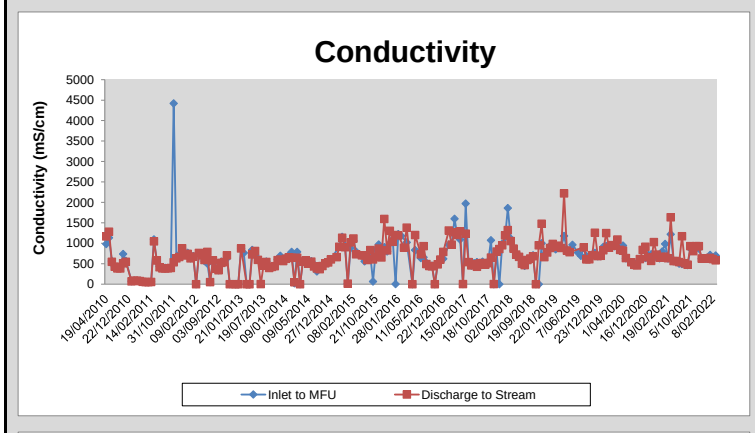
April 2010 to March 2022

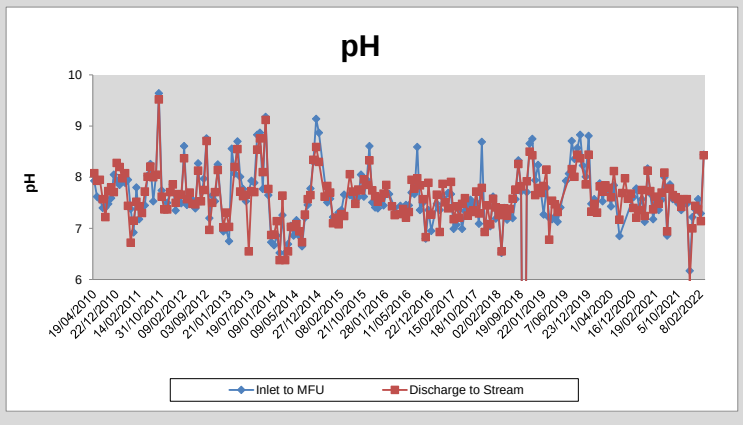


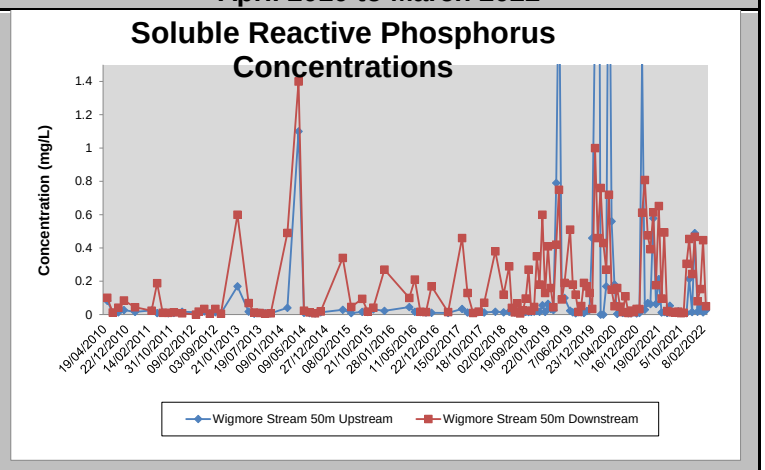
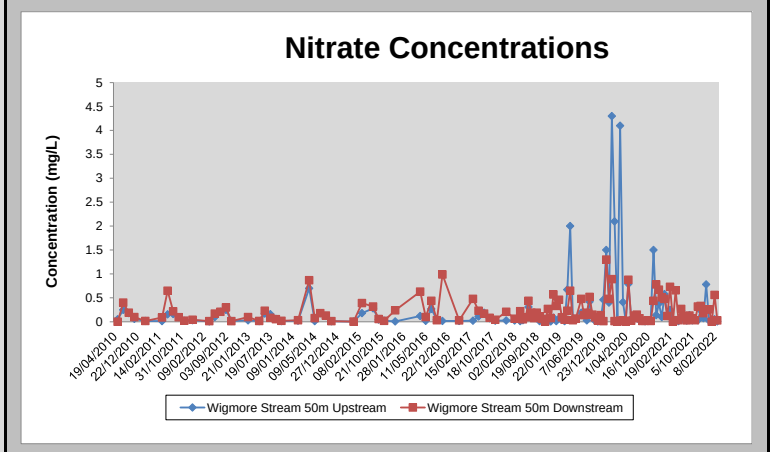
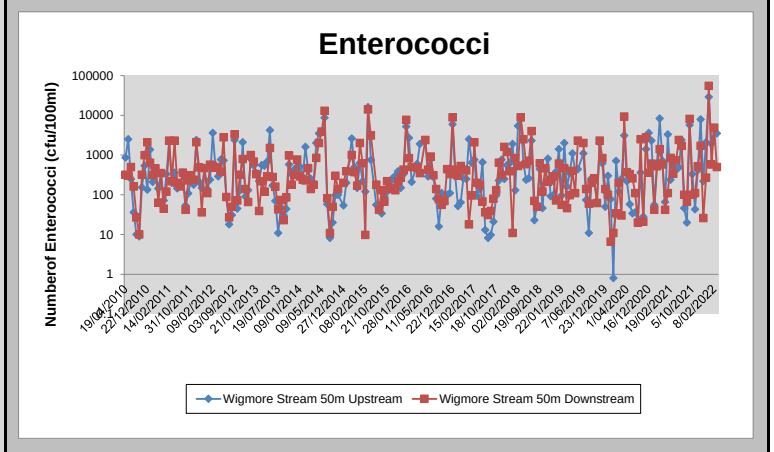
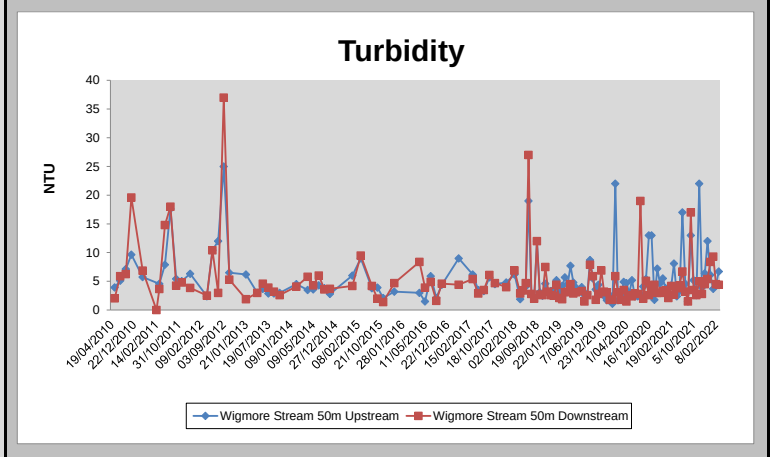
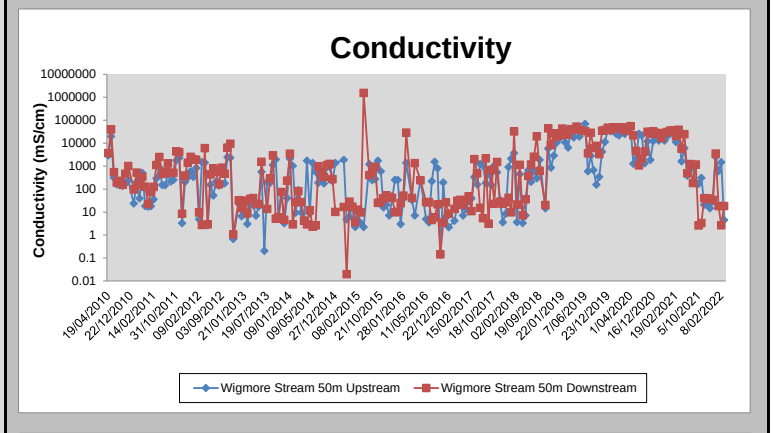
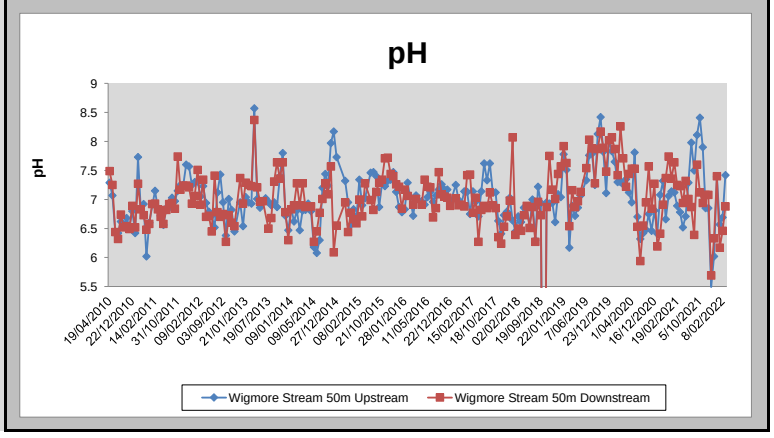










Upstream/Downstream Trends

April 2010 to March 2022