

COMPLIANCE SUMMARY

April 2023 to March 2024

Hahei WWTP		
Total Influent Flow	35,280	m3
Maximum Effluent Flow	455	m3
Average Effluent Flow	117	m3
Total Effluent Flow	42,717	m3

	90th Percentile	Running Average	<i>Limits</i>	
Suspended solids (g/m3)	3.6	2.5	20	10
cBOD5 (g/m3)	6.7	3.5	20	10
Escherichia coli (cfu/100 mL)	63.2	35.8	20	10
Total Ammoniacal nitrogen (g/m3)	27.0	14.4	15	10
Total Kjeldahl Nitrogen (g/m3)	26.6	14.8	20	15
Total Phosphorus (g/m3)	10.8	9.4	20	14

Hahei WWTP Annual Performance Report

April 2023 to March 2024

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
1/04/2023	7	83	320	7.13	6.19	7.22	7.16	7.71	7.94	720
2/04/2023	21	79	0	7.41	6.82	7.49	7.51	8.16	8.47	780
3/04/2023	0	71	0	7.26	6.03	7.24	7.34	7.93	8.59	800
4/04/2023	0	87	0	6.99	7.95	7.42	8.33	8.25	11.04	840
5/04/2023	0	73	0	7.58	8.56	7.75	8.35	8.64	11.33	860
6/04/2023	18	66	0	7.21	6.20	7.22	5.56	7.95	8.06	880
7/04/2023	1	118	34	7.04	5.67	7.07	5.51	7.45	7.67	900
8/04/2023	0	155	378	7.24	3.29	6.93	4.57	7.22	7.84	850
9/04/2023	3	175	373	7.39	4.77	7.05	6.13	7.15	7.04	800
10/04/2023	16	221	194	7.32	4.53	7.15	5.68	7.43	8.85	870
11/04/2023	4	130	1	7.12	5.51	7.20	5.91	7.68	8.59	910
12/04/2023	1	156	358	7.18	5.61	6.98	5.82	8.42		900
13/04/2023	0	157	405	7.26	6.80	7.72	8.44	7.70	7.61	820
14/04/2023	24	133	352	7.46	6.27	7.59	7.57	7.39	6.49	800
15/04/2023	2	305	302	7.30	7.05	7.32	7.88	7.31	6.28	870
16/04/2023	1	205	391	7.32	7.04	7.45	7.65	7.47	7.58	840
17/04/2023	0	154	32	7.42	7.11	7.51	7.52	7.73	7.74	920
18/04/2023	16	130	0	7.33	7.06	7.49	7.49	7.67	7.69	900
19/04/2023	2	119	0	6.16	7.05	6.62	7.62	6.59	8.36	1000
20/04/2023	2	79	363	6.19	7.06	6.55	7.50	6.51	8.22	1000
21/04/2023	1	86	338	6.43	7.18	6.60	7.74	6.63	7.67	860
22/04/2023	26	84	372	6.55	7.26	6.62	7.83	6.79	7.81	
23/04/2023	1	108	349	6.51	7.22	6.52	7.81	6.81	7.88	750
24/04/2023	0	123	44	6.43	7.40	6.40	7.88	6.79	7.89	750
25/04/2023	0	70	0	6.39	7.44	6.41	7.81	6.75	7.91	810
26/04/2023	0	93	269	6.41	7.21	6.38	7.62	6.88	8.04	750
27/04/2023	0	69	267	6.56	7.06	6.59	7.39	6.92	7.82	740
28/04/2023	1	52	0	6.47	7.17	6.53	7.28	6.83	7.63	760
29/04/2023	3	72	0	6.43	6.55	6.35	6.92	6.74	8.45	780
30/04/2023	38	59	0	6.51	6.33	6.44	6.77	6.77	8.22	800
1/05/2023	32	77	0	6.59	6.31	6.45	6.81	6.79	8.31	840
2/05/2023	1	56	0	6.46	6.18	6.50	6.98	6.83	8.27	870
3/05/2023	10	65	0	6.37	6.25	6.71	6.83	6.76	8.01	890
4/05/2023	9	77	0	6.60	6.02	6.79	6.37	6.38	8.25	920
5/05/2023	1	65	0	6.72	6.19	6.84	6.81	6.21	8.12	940
6/05/2023	5	61	50	6.89	6.82	6.72	6.95	6.33	8.01	900
7/05/2023	9	61	351	6.58	6.35	6.81	6.33	6.48	7.82	840
8/05/2023	6	84	74	6.83	6.02	6.99	6.79	6.61	7.91	900
9/05/2023	54	53	0	6.29	6.49	7.09	6.36	6.81	8.09	900
10/05/2023	7	237	300	6.67	6.47	6.70	6.42	6.90	7.90	940
11/05/2023	8	194	388	6.35	6.14	6.82	6.69	6.74	7.88	920
12/05/2023	0	146	375	6.24	6.02	6.54	6.36	6.62	7.81	940
13/05/2023	0	83	265	6.29	6.01	6.35	6.22	6.64	7.82	800
14/05/2023	0	116	0	6.27	6.09	6.33	6.20	6.69	7.80	820
15/05/2023	3	97	0	6.24	6.43	6.39	6.19	6.54	8.14	840
16/05/2023	0	78	0	6.37	6.24	6.47	6.30	6.61	8.26	860
17/05/2023	0	75	0	4.37	7.94	4.49	8.28	5.39	10.04	880
18/05/2023	0	54	0	4.96	8.75	5.02	8.79	5.60	10.03	920
19/05/2023	23	61	198	5.26	8.14	5.48	8.75	5.85	9.31	780
20/05/2023	7	47	313	5.27	6.44		7.21		8.55	810
21/05/2023	1	84	69	7.18	7.23	7.21	7.31	7.94	8.55	850
22/05/2023	2	74	254	7.23	7.36	7.22	7.35	7.91	8.62	780
23/05/2023	19	95	143	7.58	7.36	7.41	7.42	7.72	8.39	820
24/05/2023	0	80	0	7.42	7.46	7.34	7.36	7.83	8.92	840
25/05/2023	0	80	206	7.51	7.33	7.35	7.29	7.78	8.72	830
26/05/2023	0	75	0	7.41	7.39	7.31	7.38	7.62	8.83	840
27/05/2023	5	61	0	7.29	7.24	7.25	7.23	7.58	8.49	860
28/05/2023	3	84	0	7.24	6.72	7.24	7.28	7.62	8.71	880
29/05/2023	28	82	0							
30/05/2023	0	81	0	7.38	6.74	7.37	7.36	7.79	8.36	940
31/05/2023	0	71	0	7.22	6.68	7.32	6.87	7.58	8.21	980

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
1/06/2023	0	47	267	7.24	6.81	7.26	6.93	7.61	8.31	880
2/06/2023	4	73	317	7.21	6.31	7.24	6.38	7.48	8.84	840
3/06/2023	0	62	0	7.28	6.37	7.29	6.41	7.44	8.77	850
4/06/2023	4	94	0	7.19	6.47	7.21	4.51	7.38	8.62	880
5/06/2023	35	109	0	7.22	6.42	7.18	5.81	7.35	7.23	910
6/06/2023	47	312	5	7.18	6.30	7.21	620.00	7.32	7.11	1000
7/06/2023	0	290	365	7.24	6.13	7.25	6.29	7.39	7.18	1100
8/06/2023	0	177	367	7.39	5.92	7.39	6.35	7.21	7.86	1050
9/06/2023	0	146	309	7.24	6.19	7.42	6.13	7.35	8.11	1050
10/06/2023	0	80	261	7.21	6.11	7.28	6.21	7.31	7.89	980
11/06/2023	0	119	421	7.40	8.88	7.36	8.69	7.37	8.34	890
12/06/2023	0	110	406	7.70	9.09	7.90	9.55	8.57	11.29	800
13/06/2023	0	80	242	7.61	9.01	7.82	9.29	8.49	10.81	780
14/06/2023	0	72	53	7.42	9.07		9.03	8.56	9.83	800
15/06/2023	0	179	0	8.28	8.14	8.17	8.17	8.55	9.78	820
16/06/2023	23	94	0	8.36	8.02	8.24	8.01	8.61	8.49	840
17/06/2023	33	144	0	8.11	7.83	8.01	7.72	8.44	7.98	900
18/06/2023	13	193	455	8.16	7.42	8.16	7.51	8.49	7.82	880
19/06/2023	1	180	343	7.61	8.81	7.60	9.02	7.08	10.62	840
20/06/2023	3	148	0	7.46	8.24	7.51	8.48	7.10	9.91	880
21/06/2023	1	80	0	7.85	7.11	7.86	9.24	7.99	9.54	950
22/06/2023	21	115	0	7.81	7.26	7.89	8.93	7.93	9.42	1000
23/06/2023	12	144	85	7.32	8.01	7.45	835.00	7.19	9.63	1050
24/06/2023	12	144	289	7.25	8.06	7.41	8.31	7.12	9.57	1000
25/06/2023	12	154	313	7.59	8.83	7.61	8.32	7.12	9.49	950
26/06/2023	12	137	353	7.41	8.72	7.58	8.33	7.28	9.47	900
27/06/2023	0	133	341	7.32	8.64	7.38	8.41	7.19	8.99	870
28/06/2023	0	101	13	7.31	8.21	7.32	8.26	7.22	8.71	880
29/06/2023	1	83	0	7.38	8.12	7.46	8.01	7.35	8.93	860
30/06/2023	29	77	0	7.29	7.32	7.39	8.09		9.69	880
1/07/2023	4	60	280	7.53	7.43	7.66	7.99	7.85	8.55	900
2/07/2023	13	116	439	7.91	8.22	7.89	8.35	7.83	8.75	810
3/07/2023	4	95	0	7.84	8.19	7.68	8.26	7.71	8.62	780
4/07/2023	0	63	368	8.47	8.29	8.10	8.82	8.20	9.41	800
5/07/2023	0	78	0	8.21	8.34	8.25	8.26	8.24	9.38	810
6/07/2023	0	68	0							
7/07/2023	13	61	0	8.19	8.17	8.19	8.19	8.18	9.59	840
8/07/2023	24	84	298	8.28	8.26	8.31		8.34	9.92	7
9/07/2023	1	121	18	8.11	8.01	8.22	8.04	8.29	10.04	880
10/07/2023	0	94	0	7.88	7.94	7.98	8.01	7.91	8.43	900
11/07/2023	0	75	0	7.62	7.98	8.02	7.94	8.17	8.48	920
12/07/2023	0	47	70	7.81	8.04	8.29	7.92	8.26	9.03	740
13/07/2023	0	72	307	7.78	7.92	7.84	7.86	8.15	8.98	800
14/07/2023	1	53	396	7.65	7.83	7.59	7.69	7.91	8.67	810
15/07/2023	0	92	154	7.61	7.71	7.58	7.62	7.84	8.44	840
16/07/2023	0	75	0	7.56	7.87	7.61	7.79	7.89	8.24	870
17/07/2023	2	68	170	7.21	7.93	7.39	8.04	8.16	9.41	880
18/07/2023	0	51	330	7.87	8.60	7.95	8.93	8.31	9.86	750
19/07/2023	0	63	18	7.81	8.51	7.82	8.87	8.27	9.96	780
20/07/2023	3	52	0	7.72	8.36	7.79	8.71	8.38	10.02	810
21/07/2023	118	120	0	7.91	7.83	7.92	7.81	8.46	10.24	860
22/07/2023	0	243	343	7.59	8.04	7.40	8.06	7.27	9.62	920
23/07/2023	0	113	321	7.22	7.91	7.31	7.98	7.44	9.67	880
24/07/2023	1	101	380	7.34	7.83	7.35	7.90	7.55	9.79	800
25/07/2023	0	77	19	7.39	7.88	7.39	7.88	7.48	9.91	840
26/07/2023	4	78	0	7.26	7.73	7.28	7.64	7.39	10.03	880
27/07/2023	4	66	0	7.14	7.84		7.53	7.41	9.86	900
28/07/2023	0	67	293	7.26	7.26	7.32	7.49	7.35	9.91	780
29/07/2023	0	34	376	7.39	7.38	7.25	7.37	7.40	9.98	740
30/07/2023	0	66	0	7.39	7.42	7.27	7.25	7.48	10.06	770
31/07/2023	0	75	0	7.14	5.87	7.29	6.18	7.42	10.14	820

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
1/08/2023	0	47	0	7.23	5.03	7.35	6.35	7.36	10.25	840
2/08/2023	16	52	9	7.28	5.09	7.31	5.65	7.29	9.78	810
3/08/2023	0	55	0	7.21	6.37	7.24	6.08	7.24	9.98	850
4/08/2023	0	52	0	7.27	6.14	7.36	6.31	7.36	10.27	870
5/08/2023	0	61	120	7.19	6.02	7.22	6.23	7.29	10.11	840
6/08/2023	0	47	0	7.27	6.22	7.23		7.35	9.98	850
7/08/2023	0	58	0	7.39	7.13	7.26	7.38	7.39	10.87	880
8/08/2023	0	62	85	7.46	7.26	7.35	7.39	7.41	10.06	800
9/08/2023	3	61	391	7.57	7.48	7.42	7.69	7.61	10.14	750
10/08/2023	2	40	0	7.42	7.51	7.36	7.51	7.52	9.93	770
11/08/2023	0	53	0	7.52	10.21	7.74	10.13	7.94	10.23	780
12/08/2023	0	30	0	7.41	10.25	7.68	10.20	7.59	10.35	790
13/08/2023	0	78	0	7.61	10.11	7.77	10.16	7.70	10.31	810
14/08/2023	0	57	0	7.53	10.10	7.62	10.05	7.64	10.28	820
15/08/2023	0	72	0	7.41	9.63	7.58	9.92	7.58	10.04	840
16/08/2023	2	64	0	7.46	9.58	7.49	9.86	7.52	10.16	860
17/08/2023	0	39	0	7.48	9.74	7.37	9.74	7.57	10.03	870
18/08/2023	0	48	273	7.56	9.83	7.26	9.83	7.41	10.16	800
19/08/2023	10	62	0	7.39	9.73	7.39	9.72	7.39	10.04	820
20/08/2023	27	71	0	7.22	961.00	7.31	9.74	7.40	9.98	870
21/08/2023	6	67	0	7.34	938.00	7.26	9.82	7.34	10.02	920
22/08/2023	0	48	345	7.57	8.87	7.77	9.77	8.06	10.53	780
23/08/2023	0	82	358	7.72	9.88	7.79	10.59	8.14	11.87	700
24/08/2023	0	52	0	7.61	9.91	7.82	10.16	8.17	10.86	720
25/08/2023	0	56	0	7.41	8.94	7.64	9.82	8.21	10.17	780
26/08/2023	0	26	0	7.34	8.55	7.47	9.22	8.23	9.88	890
27/08/2023	0	75	0	7.53	9.62	7.55	9.38	8.08	10.11	900
28/08/2023	0	66	0	7.48	9.24	7.45	9.84	7.83	10.01	920
29/08/2023	0	73	152	7.45	9.33	7.48	9.78	7.84	10.09	800
30/08/2023	4	25	0	7.73	9.69	7.64	10.51	8.02	10.86	810
31/08/2023	0	46	104	7.68	9.59	7.69	9.71	8.09	10.94	800
1/09/2023	0	55	0	7.53	9.92	7.53	9.89	8.02	11.16	810
2/09/2023	0	54	0	7.49	9.87	7.46	9.82	7.61	9.94	820
3/09/2023	0	53	0	7.51	9.81	7.48	9.79	7.59	9.36	830
4/09/2023	37	55	0	7.47	9.72	7.42	9.86	7.47	9.47	840
5/09/2023	23	68	0	7.31	9.57	7.35	9.68	7.38	9.92	880
6/09/2023	3	74	202	7.38	9.69	7.43	9.72	7.46	10.18	810
7/09/2023	0	38	360	7.42	9.36	7.46	9.71	7.51	10.02	780
8/09/2023	0	53	0	7.54	9.59		9.96	7.46	10.18	800
9/09/2023	0	49	0	7.49	9.82	7.43	9.84	7.41	10.05	820
10/09/2023	0	58	0	7.36	9.72	7.29	9.64	7.37	9.92	850
11/09/2023	30	51	0	7.39	9.58	7.37	9.61	7.41	10.09	860
12/09/2023	0	64	0	7.16	8.83	7.41	8.50	7.86	11.08	900
13/09/2023	0	78	0	7.13	8.72	7.26	8.65	7.61	10.47	910
14/09/2023	0	69	0	7.09	8.94	7.28	8.98	7.66	10.62	920
15/09/2023	1	53	0							
16/09/2023	0	55	0	7.19	8.67	7.15	8.78	7.51	10.11	910
17/09/2023	0	63	343	7.17	8.54	7.25	8.67	7.54	10.10	800
18/09/2023	0	67	0	7.26	8.25	7.28	8.49	7.63	10.14	880
19/09/2023	0	38	189	7.39	8.36	7.32	8.61	7.58	10.28	780
20/09/2023	0	65	327	7.36	8.41	7.28	8.72	7.56	10.36	
21/09/2023	0	46	11	7.42	8.62	7.31	8.64	7.61	10.47	800
22/09/2023	0	51	0	7.34	8.54	7.26	8.51	7.59	10.04	810
23/09/2023	3	61	0		8.44	7.31	8.49	7.56	9.92	850
24/09/2023	52	73	0	7.38	8.49	7.35	8.43	7.46	9.81	870
25/09/2023	37	128	207		6.29		6.24		8.30	860
26/09/2023	2	132	346	7.49	6.48	7.42	6.28	7.59	8.40	900
27/09/2023	1	223	164	7.63	6.79	7.49	6.47	7.48	8.49	840
28/09/2023	6	102	0	7.37	7.15	7.56	6.59	7.49	9.17	870
29/09/2023	0	112	0	7.39	6.52	7.61	6.62	7.60	9.83	890
30/09/2023	9	63	299	7.41	6.49	7.41	6.59	7.48	10.07	900

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
1/10/2023	0	100	0							
2/10/2023	5	105	3	7.44	8.35	7.53	8.39	7.91	9.86	880
3/10/2023	0	60	284	7.51	8.48	7.48	8.26	7.84	9.94	820
4/10/2023	0	62	122	7.33	9.91	7.40		7.78	7.95	790
5/10/2023	0	78	0	7.46	8.13	7.46	8.09	8.19	10.74	900
6/10/2023	0	83	2	7.48	7.40	7.50	7.40	8.20	11.80	920
7/10/2023	6	61	0	7.50	7.50	7.30	7.40	7.60	8.26	850
8/10/2023	14	72	0	7.30	6.30	7.30	6.30	7.70	8.11	890
9/10/2023	0	62	282	7.47	6.79	7.73	7.36	8.16	9.33	900
10/10/2023	0	42	0	7.83	7.42	7.68	7.91	7.81	7.99	920
11/10/2023	0	57	3	8.37	7.44	8.07	6.96	8.20	8.02	920
12/10/2023	0	49	374	8.79	7.29	8.86	7.68	8.87	8.06	790
13/10/2023	0	47	380	7.16	4.48	7.29	7.94	7.32	8.03	700
14/10/2023	0	54	4	7.00	7.26	7.01	7.52	7.02	8.57	760
15/10/2023	1	66	0	7.01	7.24	7.03	7.47	7.15	7.92	790
16/10/2023	0	42	0	6.99	6.38	6.92	6.85	7.06	7.89	790
17/10/2023	0	57	0	6.83	5.98	6.84	7.13	6.97	7.74	800
18/10/2023	0	39	0	6.82	5.83	6.77	6.80	6.77	7.46	810
19/10/2023	0	60	0	6.92	6.40	7.00	6.81	7.07	7.78	830
20/10/2023	0	56	0	6.74	5.92	6.73	6.10	7.14	7.60	860
21/10/2023	3	92	0	6.52	5.57	5.54	6.52	6.43	6.59	880
22/10/2023	0	103	0	6.42	4.73	6.33	5.10	6.31	6.58	910
23/10/2023	0	159	0	6.42	4.40	6.21	4.76	5.85	6.63	930
24/10/2023	0	53	350	6.38	5.63	6.46	5.12	6.67	7.04	840
25/10/2023	5	66	381	6.34	5.46	6.30	5.38	6.26	6.41	720
26/10/2023	0	60	0	6.32	5.51	6.31	5.38	6.44	7.06	800
27/10/2023	2	60	0	6.40	7.20	6.50	7.40		7.50	850
28/10/2023	0	59	2	6.39	5.73	6.37	5.87	6.51	6.57	870
29/10/2023	5	83	0	6.78	8.09	6.59	7.75	6.66	9.32	900
30/10/2023	58	47	0	6.69	8.28	6.56	8.41	6.49	7.94	910
31/10/2023	23	87	0	6.61	8.26	6.54	8.40	6.44	7.03	1000
1/11/2023	0	135	352	6.95	7.43	6.92	6.89	6.83	5.90	890
2/11/2023	0	105	402	9.99	9.28	6.92	9.40	6.65	7.66	800
3/11/2023	12	81	305	6.52	9.86	6.63	10.07	6.16	8.09	730
4/11/2023	0	100	0	6.47	8.43	6.25	8.02	6.23	7.91	840
5/11/2023	0	76	0	6.40	8.04	6.47	7.81	6.23	7.49	860
6/11/2023	0	81	0	6.43	8.72	6.49	8.96	6.23	7.86	870
7/11/2023	0	78	0	6.55	8.96	6.54	8.67	6.21		890
8/11/2023	0	50	0	6.55	8.29	6.21	8.29	6.26	7.02	900
9/11/2023	0	60	0	6.28	9.14	6.11	8.18	6.17	5.49	920
10/11/2023	0	73	0	6.22	8.87	6.18	8.09	6.12	7.29	960
11/11/2023	0	70	392	6.23	8.91	6.17	8.16	6.21	7.73	800
12/11/2023	0	94	1	6.37	8.82	6.32	8.67	6.23	7.85	870
13/11/2023	0		1	6.21	8.96	6.22	8.77	6.19	7.81	900
14/11/2023	2	147	0	6.36	9.11	6.35	8.20	6.21	7.61	910
15/11/2023	0	64	0	6.98	9.01	6.73	8.85	6.91	7.73	950
16/11/2023	0	68	0	7.01	9.09	6.99	9.16	6.98	8.01	970
17/11/2023	0	62	380	6.42	7.94	6.27	7.47	6.28	7.92	830
18/11/2023	3	77	379	6.22	7.00	6.12	7.89	6.10	8.14	740
19/11/2023	19	79	0	6.17	7.10	6.11	6.82	6.15	8.02	820
20/11/2023	5	100	0	6.30	7.72	6.31	7.83	6.26	8.01	88
21/11/2023	0	65	0	6.33	7.36	6.41	8.23	6.31	8.02	890
22/11/2023	0	56	0	6.41	7.94	6.32	8.07	6.33	7.92	900
23/11/2023	0	67	0	6.39	7.59	6.30	7.70	6.30	7.72	810
24/11/2023	1	69	0	6.43	6.38	6.26	6.29	6.30	7.22	820
25/11/2023	0	50	0	6.41	7.32	6.39	7.91	6.31	8.01	850
26/11/2023	0	102	0	6.43	7.17	6.44	7.89	6.42	8.77	890
27/11/2023	0	86	369	6.82	7.36	6.85	7.41	6.81	8.72	910
28/11/2023	1	53	198	6.41	7.65	6.46	7.65	6.62	6.55	850
29/11/2023	0	77	397	6.57	7.79	6.51	8.77	6.60	6.75	850
30/11/2023	0	67	48	7.16	9.61	7.20	10.05	6.98	8.54	700

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
1/12/2023	0	52	0	6.95	10.62	6.85	9.10	6.77	8.97	760
2/12/2023	0	88	0	7.03	8.83	6.99	8.70	6.71	8.53	800
3/12/2023	3	79	0	7.11	10.90	7.03	10.36	6.68	9.16	810
4/12/2023	8	57	0	6.99	10.03	6.98	10.57	6.73	9.04	830
5/12/2023	11	90	0	6.95	10.29	6.95	10.58	6.71	9.09	880
6/12/2023	0	97	0	6.95	10.66	6.72	10.84	6.72	9.47	900
7/12/2023	0	128	2	6.92	10.49	6.83	10.62	6.68	9.24	100
8/12/2023	0	71	393	8.04	9.41	7.01	10.42	6.80	9.42	850
9/12/2023	0	79	324	7.95	9.01	7.77	8.91	6.80	7.65	770
10/12/2023	0	119	0	7.80	7.44	7.73	7.54	7.70	8.16	830
11/12/2023	5	69	0	7.91	8.02	7.70	8.29	7.54	7.29	880
12/12/2023	0	88	4	7.75	7.98	7.72	7.85	7.68	7.80	900
13/12/2023	0	68	351	7.84	8.11	7.84	8.34	7.63	7.15	790
14/12/2023	0	82	394	7.75	7.96	7.72	8.85	7.68	7.80	680
15/12/2023	0	67	0	7.95	8.61	7.85	9.11	7.72	7.25	730
16/12/2023	0	95	2	7.91	8.59	7.82	9.07	7.76	7.17	780
17/12/2023	0	103	0	7.91	8.82	7.80	868.00	7.77	7.36	800
18/12/2023	0	124	0	8.19	5.87	7.90	6.33	8.00	7.07	850
19/12/2023	0	63	92	7.72	5.86	7.64	5.59	7.81	7.88	790
20/12/2023	0	106	2	7.73	6.23	7.83	7.13	7.70	7.34	850
21/12/2023	0	112	32	7.72	5.84	7.88	7.60	7.80	7.61	860
22/12/2023	0	113	298	7.81	6.61	7.77	7.01	7.95	7.69	750
23/12/2023	0	147	0	7.68	5.62	7.59	6.26	8.26	11.09	870
24/12/2023	0	98	0	7.62	5.61	7.42	6.72	7.80	7.18	890
25/12/2023	2	194	7	7.44	5.52	7.28	5.69	7.93	8.43	950
26/12/2023	6	136	0	7.45	5.94	7.34	5.84	7.49	5.89	870
27/12/2023	0	188	321	7.63	4.34	7.46	6.09	7.88	7.24	900
28/12/2023	1	212	400	7.42	5.72	7.47	6.22	7.91	8.07	850
29/12/2023	46	169	362	7.66	5.77	7.80	6.27	7.78	8.17	810
30/12/2023	5	250	317	7.79	5.23	7.70	5.96	8.01	8.20	830
31/12/2023	18	253	358	7.55	4.94	7.53	5.81	7.99	9.79	800
1/01/2024	2	159	26	7.57	6.01	7.59	6.91	7.61	4.45	900
2/01/2024	0	260	348	7.60	5.90	7.67	6.87	7.65	5.41	820
3/01/2024	0	293	377	7.80	5.87	7.74	6.11	8.02	9.75	800
4/01/2024	2	212	292	7.73	4.91	7.79	5.98	7.83	7.61	780
5/01/2024	0	196	287	7.68	4.44	7.64	5.51	7.71	7.51	750
6/01/2024	0	175	48	7.61	4.91	7.60	5.42	7.81	7.48	820
7/01/2024	5	245	0	7.80	5.91	7.76	6.11	7.89	9.03	900
8/01/2024	0	163	0	7.57	3.33	7.44	4.61	7.60	6.11	950
9/01/2024	0	196	320	7.47	3.53	7.38	4.54	8.44	5.05	910
10/01/2024	0	230	332	7.49	3.57	7.41	4.77	7.46	5.82	890
11/01/2024	0	180	363	7.34	3.46	7.28	4.82	7.30	5.12	800
12/01/2024	0	192	61	6.88	4.55	6.81	5.22	6.88	5.28	880
13/01/2024	0	171	0	6.82	5.73	6.29	6.84	6.89	4.65	810
14/01/2024	0	222	357	6.95	4.50	6.95	5.25	7.25	6.97	750
15/01/2024	9	190	372	6.92	3.97	7.05	5.39	7.30	7.42	850
16/01/2024	2	109	0	7.31	3.46	7.06	5.11	7.18	4.92	900
17/01/2024	3	184	102	7.05	3.08	7.45	4.42	7.50	7.30	930
18/01/2024	0	147	324	6.44	2.60	6.67	4.37	7.11	5.66	850
19/01/2024	1	188	344	6.49	3.02	6.72	4.41	7.08	5.79	800
20/01/2024	0	161	0	6.30	3.48	6.03	4.61	6.65	6.55	750
21/01/2024	2	160	0	5.99	4.62	6.02	5.22	7.21	8.00	850
22/01/2024	4	152	417	6.26	4.83	6.06	5.88	7.15	8.14	820
23/01/2024	0	117	325	6.91	6.91	6.38	6.01	6.95	5.79	790
24/01/2024	0	178	92	6.24	5.01	6.34	6.50	8.01	10.64	850
25/01/2024	0	142	329	6.46	3.04	6.64	3.36	7.55	7.55	760
26/01/2024	0	170	1	6.68	2.13	6.66	3.47	8.42	10.78	800
27/01/2024	0	152	330	6.69	2.06	6.83	210.00	7.44	3.95	720
28/01/2024	17	173	0	6.85	4.32	7.01	5.85	7.36	3.08	820
29/01/2024	1	182	0							
30/01/2024	0	123	2	6.53	3.33	7.32	4.30	7.32	5.46	900
31/01/2024	0	91	410	6.59	4.41	6.98	4.10	7.80	9.47	800

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
1/02/2024	0	114	380	6.51	4.07	6.89	4.67	7.69	8.70	710
2/02/2024	1	72	3	6.49	5.07	6.65	6.43	7.53	7.32	780
3/02/2024	19	105	0							
4/02/2024	0	156	0	6.88	3.64	6.93	4.93	8.49	9.00	870
5/02/2024	0	166	0	6.43	3.82	6.59	4.62	8.95	11.97	880
6/02/2024	0	149	341	7.04	3.34	6.87	4.29	7.33	8.29	810
7/02/2024	0	109	388	6.90	5.03	7.05	5.26	8.25	8.56	730
8/02/2024	0	88	0	6.89	5.52	7.09	6.00	8.71	11.74	800
9/02/2024	0	87	0	7.02	5.36	6.95	6.52	7.80	8.30	810
10/02/2024	5	117	393	6.85	4.22	6.97	5.20	8.66	10.21	700
11/02/2024	0	94	0	6.80	3.47	6.84	5.22	7.94	9.72	780
12/02/2024	0	81	0	6.90	3.76	6.86	3.22	8.48	9.52	810
13/02/2024	0	88	0	6.88	4.04	6.85	4.07	8.73	4.07	830
14/02/2024	0	98	284	7.16	7.51	6.95	7.51	8.30	8.44	700
15/02/2024	0	103	282	7.32	6.44	7.22	7.67	8.56	11.39	700
16/02/2024	0	89	0	7.20	7.32	7.31	7.44	8.88	11.04	730
17/02/2024	0	70	0	6.92	7.50	6.85	8.25	8.68	7.55	790
18/02/2024	0	144	0	7.02	6.07	6.76	7.03	8.97	12.95	810
19/02/2024	0	64	1	6.75	6.59	6.77	7.66	8.60	9.74	820
20/02/2024	0	80	100	6.88	6.70	6.74	7.33	8.42	7.53	800
21/02/2024	0	114	408	7.11	7.37	7.03	8.34	8.57	12.54	720
22/02/2024	0	61	0	6.42	6.75	6.93	7.55	8.57	9.42	700
23/02/2024	0	91	0	6.61	6.99	6.89	7.57	8.37	9.51	750
24/02/2024	0	78	0	7.08	6.57	7.02	7.53	8.85	11.01	800
25/02/2024	13	84	0	7.19	3.53	6.71	2.94	8.70	6.83	830
26/02/2024	11	96	0	6.72	3.78	6.81	3.62	8.13	6.59	880
27/02/2024	7	78	0	7.01	7.11	7.03	7.15	8.62	8.71	910
28/02/2024	0	73	0	6.98	6.94	7.00	7.55	8.95	11.25	940
29/02/2024	0	65	312	6.99	7.87	6.97	7.74	8.68	10.93	800
1/03/2024	0	91	442	7.16	7.31	7.17	7.61	8.59	9.12	720
2/03/2024	0	47	0	7.02	7.16	7.11	7.29	8.67	8.92	760
3/03/2024	7	127	0	7.04	3.98	7.01	4.01	8.25	7.03	800
4/03/2024	19	93	0	7.14	5.96	7.12	5.99	8.49	8.68	850
5/03/2024	1	69	0	7.26	6.61	7.19	7.78	7.79	7.00	900
6/03/2024	0	83	397	7.17	6.89	7.17	6.99	7.99	7.57	750
7/03/2024	0	74	0	7.49	9.84	7.63	9.72	7.88	9.48	700
8/03/2024	0	107	383	7.51	9.72	7.59	10.22	7.77	10.71	730
9/03/2024	0	51	0	7.32	8.45	7.46	8.96	7.69	7.04	790
10/03/2024	0	156	0	7.42	6.95	7.42	7.14	8.12	10.92	800
11/03/2024	0	58	0	7.51	7.99	7.55	7.88	8.14	9.38	830
12/03/2024	0	81	2	7.52	8.44	7.55	8.93	7.94	8.04	850
13/03/2024	0	79	404	7.70	8.37	7.69	8.30	7.91	7.81	700
14/03/2024	0	82	0	7.68	7.43	7.70	7.78	8.11	8.49	780
15/03/2024	0	61	0	7.55	7.06	7.71	7.64	7.90	6.74	800
16/03/2024	0	59	0	8.35	8.66	7.44	8.97	7.54	6.17	830
17/03/2024	0	92	0	7.43	9.04	7.38	9.25	7.68	9.01	850
18/03/2024	0	107	0	7.39	8.41	6.98	8.59	7.55	9.37	880
19/03/2024	0	62	2	7.91	7.34	7.41	8.65	8.07	12.33	900
20/03/2024	0	72	0	7.71	9.07	7.37	9.27	7.72	9.48	790
21/03/2024	0	60	0	7.78	9.13	7.74	9.24	8.12	9.29	820
22/03/2024	0	93	0	7.10	7.97	7.10	7.93	8.08	11.67	860
23/03/2024	11	49	0	7.11	8.14	7.29	8.21	8.03	10.19	880
24/03/2024	0	95	0	6.81	3.77	6.85	3.91	7.06	5.13	900
25/03/2024	0	69	317	7.35	3.18	7.22	2.40	7.71	8.00	920
26/03/2024	0	75	378	7.39	7.88	7.29	8.34	7.39	7.69	800
27/03/2024	0	68	373	7.40	7.76	7.16	7.85	7.25	6.85	720
28/03/2024	1	50	0	7.54	7.80	7.39	8.62	7.32	6.20	750
29/03/2024	0	125	0	7.31	5.95	7.25	6.89	7.56	9.27	800
30/03/2024	0	161	0	7.37	6.20	7.34	7.66	7.88	9.85	850
31/03/2024	0	179	0	7.39	9.32	7.21	9.32	7.89	9.03	900
Total	1571	35280	42717	2560	4451	2538	5167	2657	3081	298095
Max	118.2	312.0	455.0	10.0	961.0	8.9	868.0	9.0	13.0	1100.0
90th Percentile	13.4	170.7	373.0	7.8	9.6	7.8	9.7	8.4	10.3	920.0
Min	0.0	25.0	0.0	4.4	2.1	4.5	2.4	5.4	3.1	7.0
Average	4.3	96.9	117	7.2	12.4	7.2	14.5	7.5	8.6	835.0

Hahei WWTP Annual Performance Report April 2023 to March 2024

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
1/04/2023	12:00	24.00	78.80	4.90	0.05	9.75	6.63	4.73	5000.00	20000.00	75.00		
2/04/2023													
3/04/2023													
4/04/2023													
5/04/2023													
6/04/2023													
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26/04/2023													
27/04/2023													
28/04/2023													
29/04/2023													
30/04/2023													
1/05/2023	12:00	14.00	62.40	3.80	0.24	7.17	6.01	4.62	1500.00	6200.00	55.00	522.00	7.17
2/05/2023													
3/05/2023													
4/05/2023													
5/05/2023													
6/05/2023													
7/05/2023													
8/05/2023													
9/05/2023													
10/05/2023													
11/05/2023													
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26/05/2023													
27/05/2023													
28/05/2023													
29/05/2023													
30/05/2023													
31/05/2023													

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
1/06/2023	12:00	11.00	36.80	3.90	0.15	6.00	3.28	3.14	4600.00	24000.00	28.00	639.00	7.19
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1/07/2023	12:00	17.00	62.50	5.90	0.05	6.88	4.13	2.38	2200.00	24000.00	50.00	629.00	7.18
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1/08/2023	12:00	22.00	45.20	3.80	1.50	8.01	3.11	2.25	800.00	3600.00	17.00	397.00	7.29
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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
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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
1/03/2024	12:50	22.00	85.00	6.00	0.091	8.02	10.40	8.89	2500.00	9600.00	0.00		
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Total	7	348	1132		174	313	147	121	85266	147310	546	9031	115
Max	0.5	45.0	136.0	9.6	28.0	34.2	11.6	9.7	42000.0	24000.0	75.0	827.0	8.7
90th Percentile	0.5	32.2	94.2	6.1	25.4	32.2	10.8	9.2	5360.0	20800.0	51.0	761.0	8.6
Min	0.1	1.4	21.2	0.2	0.0	6.0	3.1	2.3	96.0	340.0	0.0	331.0	6.4
Average	0.4	18.3	59.6	3.4	9.2	16.5	7.7	6.4	4487.7	7753.2	28.7	602.1	7.7

Hahei WWTP Annual Performance Report April 2023 to March 2024

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	
1/04/2023	12:00	0.76	<1.0	4.70	0.03	1.02	5.20	4.87	1.60	9.80	0.25			
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1/05/2023	12:00	<0.5	1.40	4.20	0.02	0.79	4.66	4.52	<1.6	3.30	0.75	505.00	7.35	
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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
1/06/2023	12:00	1.90	<1.0	4.00	0.05	0.80	3.04	2.93	6.60	9.80	0.60	645.00	7.46
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1/07/2023	12:00	0.99	<1.0	6.00	0.02	0.78	2.84	2.34	1.60	4.90	0.15	641.00	7.41
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1/08/2023	12:00	1.40	1.00	3.80	1.40	2.18	3.06	2.93	1.60	1.60	0.35	419.00	7.38
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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
1/09/2023	12:00	1.50	<1.0	4.60	0.07	1.18	3.79	3.55	<1.6	<1.6	0.95	334.00	8.37
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1/10/2023	12:00	0.61	2.40	0.01	0.02	0.24	0.02	0.01	68.00	70.00	0.25	537.00	6.03
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1/11/2023	12:00	3.40	2.80	0.56	18.00	17.10	6.13	5.75	<1.6	<1.6	0.20	512.00	6.57
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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													
1/12/2023	02:35	4.50	<1.0	3.00	23.00	25.10	7.95	6.50	1.60	<1.6	1.00															
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18/12/2023	12:00	7.60	<1.0	0.29	27.00	26.60	7.62	6.97	3.30	<1.6	0.30	694.00	7.80													
19/12/2023																										
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27/12/2023																										
28/12/2023	02:25	4.20	1.00	1.20	16.00	15.90	5.44	5.26	<1.6	<1.6	0.25															
29/12/2023																										
30/12/2023																										
31/12/2023																										
1/01/2024	06:05	6.60	<1.0	2.60	20.00	18.70	9.01	7.34	<1.6	<1.6	0.95	668.00	7.51													
2/01/2024																										
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11/01/2024																										
12/01/2024														02:20	3.80	<1.1	0.17	28.00	28.50	9.58	8.23	<1.6	<1.6	0.75	867.00	6.95
13/01/2024																										
14/01/2024																										
15/01/2024																										
16/01/2024														05:00	3.40	3.80	0.61	24.00	22.20	10.70	8.95	<1.6	1.60	0.35	795.00	7.96
17/01/2024																										
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25/01/2024																										
26/01/2024	03:00	0.90	<1.0	5.30	0.27	2.18	8.43	8.15	<1.6	<1.6	0.40	626.00	8.42													
27/01/2024																										
28/01/2024																										
29/01/2024																										
30/01/2024																										
31/01/2024																										
1/02/2024	12:00	1.20	1.40	10.00	0.12	1.77	9.88	9.57	<1.6	<1.6	0.00	845.00	7.85													
2/02/2024																										
3/02/2024																										
4/02/2024																										
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6/02/2024																										
7/02/2024																										
8/02/2024																										
9/02/2024																										
10/02/2024														12:00	0.52	<1.0	7.00	0.07	0.87	10.80	9.51	<1.6	<1.6	0.00	1067.00	8.09
11/02/2024																										
12/02/2024																										
13/02/2024																										
14/02/2024														12:00	2.40	<1.0	0.67	1.90	3.52	14.00	9.89	<1.6	<1.6	0.00	696.00	7.63
15/02/2024																										
16/02/2024																										
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29/02/2024																										

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
1/03/2024	12:55	0.92	<1.0	6.00	0.07	1.42	9.83	8.82	<1.6	<1.6	0.00		
2/03/2024													
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Total	7	47	14	65	160	171	132	116	84	101	8	9851	113
Max	0.5	7.6	3.8	10.0	28.0	28.5	14.0	9.9	68.0	70.0	1.0	1067.0	8.4
90th Percentile	0.5	5.1	3.2	6.2	24.6	25.4	10.7	9.5	31.2	33.9	1.0	858.2	8.3
Min	0.1	0.5	1.0	0.0	0.0	0.2	0.0	0.0	1.6	1.6	0.0	334.0	6.0
Average	0.4	2.6	2.0	3.4	8.4	9.0	6.9	6.1	12.0	14.4	0.4	656.7	7.5

Hahei WWTP Annual Performance Report April 2023 to March 2024

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	
1/04/2023	12:00	0.73	5.60	0.02	0.02	0.29	0.01	0.01	470.00	430.00	2.80			
2/04/2023														
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27/04/2023														
28/04/2023														
29/04/2023														
30/04/2023														
1/05/2023	12:00	0.86	5.80	0.04	0.01	0.33	0.01	0.01	800.00	800.00	4.70	641.00	6.22	
2/05/2023														
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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
1/06/2023	12:00	0.64	<1.0	0.10	0.02	0.42	0.01	0.01	28.00	110.00	2.10	625.00	6.72
2/06/2023													
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29/06/2023													
30/06/2023													
1/07/2023	12:00	1.10	18.20	0.15	0.01	0.72	0.01	0.01	20.00	120.00	4.30	620.00	6.72
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31/07/2023													
1/08/2023	12:00	1.20	4.60	0.06	0.02	0.30	0.01	0.01	120.00	560.00	3.50	147.00	6.81
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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
1/09/2023	12:00	1.40	7.40	0.03	0.02	0.28	0.01	0.01	13.00	48.00	5.50	232.00	7.28
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1/10/2023	12:00	0.86	8.20	0.01	0.01	0.19	0.01	0.01	86.00	140.00	8.00	563.00	5.93
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31/10/2023													
1/11/2023	12:00	<0.5	2.40	0.02	0.03	0.42	0.01	0.01	160.00	220.00	5.50	449.00	5.42
2/11/2023													
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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
1/03/2024	12:45	1.40	49.40	0.04	0.06	0.46	0.09	0.09	58.00	120.00	0.00		
2/03/2024													
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29/03/2024													
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31/03/2024													
Total	7	35	393	1	5	14	2	2	73411	43768	74	6414	98
Max	0.5	10.0	103.0	0.2	2.6	3.3	0.6	0.6	21000.0	11000.0	8.0	648.0	7.3
90th Percentile	0.5	2.7	50.7	0.2	0.6	1.5	0.3	0.3	11520.0	7200.0	7.2	637.8	6.9
Min	0.1	0.6	2.4	0.0	0.0	0.2	0.0	0.0	13.0	48.0	0.0	116.0	5.4
Average	0.4	1.9	21.8	0.1	0.3	0.7	0.1	0.1	3863.7	2303.6	3.9	427.6	6.5

Hahei WWTP Annual Performance Report April 2023 to March 2024

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	
1/04/2023	12:00	0.71	10.80	0.24	0.02	0.33	0.22	0.19	780.00	720.00	4.00			17:04	
2/04/2023															
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30/04/2023															
1/05/2023	12:00	0.71	86.00	0.07	0.02	0.56	0.07	0.01	3000.00	1200.00	15.00	421.00	6.24	16:01	
2/05/2023															
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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	
1/06/2023 2/06/2023 3/06/2023 4/06/2023 5/06/2023 6/06/2023 7/06/2023 8/06/2023 9/06/2023 10/06/2023 11/06/2023 12/06/2023 13/06/2023 14/06/2023 15/06/2023 16/06/2023 17/06/2023 18/06/2023 19/06/2023 20/06/2023 21/06/2023 22/06/2023 23/06/2023 24/06/2023 25/06/2023 26/06/2023 27/06/2023 28/06/2023 29/06/2023 30/06/2023	12:00	0.51	12.00	0.29	0.02	0.39	0.12	0.11	76.00	150.00	2.40	650.00	6.68	08:30	
1/07/2023 2/07/2023 3/07/2023 4/07/2023 5/07/2023 6/07/2023 7/07/2023 8/07/2023 9/07/2023 10/07/2023 11/07/2023 12/07/2023 13/07/2023 14/07/2023 15/07/2023 16/07/2023 17/07/2023 18/07/2023 19/07/2023 20/07/2023 21/07/2023 22/07/2023 23/07/2023 24/07/2023 25/07/2023 26/07/2023 27/07/2023 28/07/2023 29/07/2023 30/07/2023 31/07/2023	12:00	1.10	20.60	0.36	0.01	0.20	0.10	0.09	18.00	82.00	6.70	639.00	6.69	17:09	
1/08/2023 2/08/2023 3/08/2023 4/08/2023 5/08/2023 6/08/2023 7/08/2023 8/08/2023 9/08/2023 10/08/2023 11/08/2023 12/08/2023 13/08/2023 14/08/2023 15/08/2023 16/08/2023 17/08/2023 18/08/2023 19/08/2023 20/08/2023 21/08/2023 22/08/2023 23/08/2023 24/08/2023 25/08/2023 26/08/2023 27/08/2023 28/08/2023 29/08/2023 30/08/2023 31/08/2023	12:00	1.10	8.00	0.09	0.02	0.23	0.04	0.02	90.00	300.00	3.30	169.00	6.58	15:38	

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	
1/09/2023	12:00	2.50	11.00	0.09	0.03	0.11	0.03	0.02	64.00	<1.6	7.60	320.00	7.15	15:29	
2/09/2023															
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1/10/2023	12:00	0.61	22.60	0.02	0.02	0.27	0.01	0.01	38.00	64.00	7.80	627.00	6.07	14:43	
2/10/2023															
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31/10/2023															
1/11/2023	12:00	0.53	8.80	0.12	0.39	0.74	0.14	0.12	630.00	460.00	4.20	190.00	5.59	16:11	
2/11/2023															
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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	
1/12/2023															
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12/12/2023															
13/12/2023	02:50	1.50	21.80	0.05	0.90	1.37	0.29	0.28	58.00	81.00	6.00			13:47	
14/12/2023															
15/12/2023															
16/12/2023															
17/12/2023															
18/12/2023															
19/12/2023	12:00	1.20	20.20	0.10	0.06	0.34	0.01	0.01	490.00	720.00	9.50	554.00	6.82	06:16	
20/12/2023															
21/12/2023															
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25/12/2023															
26/12/2023															
27/12/2023															
28/12/2023															
29/12/2023	02:35	1.30	34.40	0.15	0.85	1.40	0.40	0.21	12000.00	6900.00	3.50			15:31	
30/12/2023															
31/12/2023															
1/01/2024															
2/01/2024	05:50	1.70	16.00	0.38	3.20	3.22	1.24	0.89	140.00	550.00	3.80	358.00	7.07	18:28	
3/01/2024															
4/01/2024															
5/01/2024															
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7/01/2024															
8/01/2024															
9/01/2024															
10/01/2024															
11/01/2024															
12/01/2024	02:00	3.20	8.00	0.14	5.60	6.08	1.72	1.38	730.00	1600.00	4.20	279.00	6.46	14:17	
13/01/2024															
14/01/2024															
15/01/2024															
16/01/2024	04:45	2.40	23.60	0.06	1.40	1.60	0.50	0.30	5700.00	5000.00	2.20	122.00	7.03	17:47	
17/01/2024															
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25/01/2024															
26/01/2024	02:40	2.50	45.80	0.31	0.03	0.58	0.47	0.39	130.00	220.00	5.50	152.00	7.30	14:25	
27/01/2024															
28/01/2024															
29/01/2024															
30/01/2024															
31/01/2024															
1/02/2024															
2/02/2024	12:00	2.20	97.00	0.36	0.01	0.86	0.40	0.43	90.00	270.00	0.00	448.00	7.61	06:34	
3/02/2024															
4/02/2024															
5/02/2024															
6/02/2024															
7/02/2024															
8/02/2024															
9/02/2024															
10/02/2024	12:00	1.70	23.00	0.72	0.05	1.47	1.45	1.25	1800.00	1500.00	0.00	157.00	6.88	13:57	
11/02/2024															
12/02/2024															
13/02/2024	12:00	1.60	86.20	0.02	0.05	0.53	0.14	0.10	610.00	400.00	0.00	155.00	6.77	16:33	
14/02/2024															
15/02/2024															
16/02/2024															
17/02/2024															
18/02/2024															
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29/02/2024															

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
1/03/2024	12:35	1.10	63.40	0.07	0.06	0.46	0.31	0.28	74.00	200.00	0.00			11:39
2/03/2024														
3/03/2024														
4/03/2024														
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29/03/2024														
30/03/2024														
31/03/2024														
Total	7	28	619	4	13	21	8	6	26518	20417	86	5241	101	11
Max	0.5	3.2	97.0	0.7	5.6	6.1	1.7	1.4	12000.0	6900.0	15.0	650.0	7.6	0.8
90th Percentile	0.5	2.5	86.0	0.4	1.8	1.9	1.3	1.0	3540.0	2620.0	8.1	634.2	7.2	0.7
Min	0.1	0.5	8.0	0.0	0.0	0.1	0.0	0.0	18.0	64.0	0.0	122.0	5.6	0.3
Average	0.4	1.5	32.6	0.2	0.7	1.1	0.4	0.3	1395.7	1134.3	4.5	349.4	6.7	0.6

Daily Plant Flows - Effluent (April 2022 - March 2023)





