

Air Quality Monitoring Results

Air Quality Monitoring Results for

Contract No. SPW 02/2023

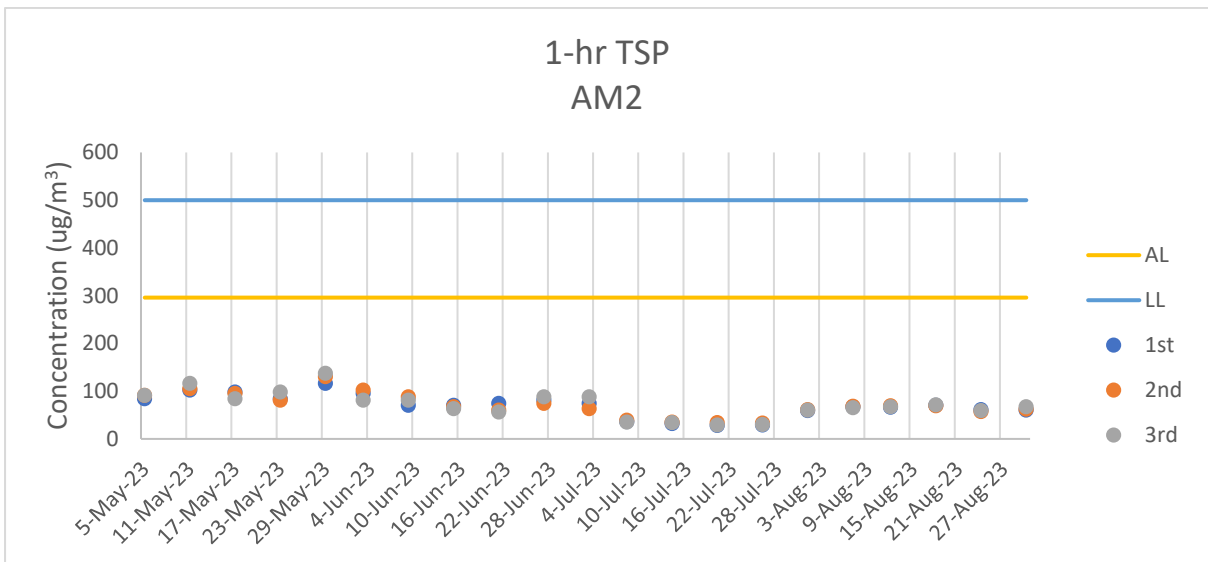
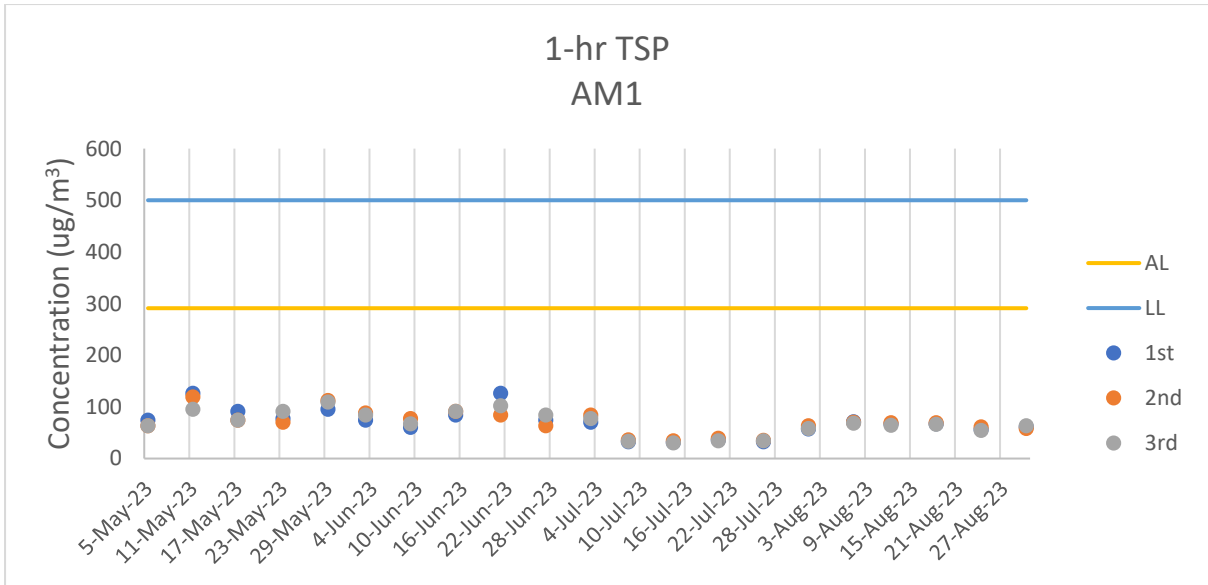
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

AM1 - Topfine Machinery (China) Co. Ltd.

Date	Weather Condition	Star Time	1-hour TSP (ug/m ³)			Action Level (ug/m ³)	Limit Level (ug/m ³)
			1st Measurement	2nd Measurement	3rd Measurement		
1/08/2023	sunny	8:30	57	63	58	291	500
7/08/2023	sunny	13:10	71	70	68		
12/08/2023	sunny	9:02	67	69	64		
18/08/2023	sunny	10:21	67	69	66		
24/08/2023	sunny	8:45	56	61	54		
30/08/2023	sunny	10:11	61	58	63		
		Min	54				
		Max	71				
		Average	64				

AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Star Time	1-hour TSP (ug/m ³)			Action Level (ug/m ³)	Limit Level (ug/m ³)
			1st Measurement	2nd Measurement	3rd Measurement		
1/08/2023	sunny	9:38	59	61	60	296	500
7/08/2023	sunny	13:54	67	68	65		
12/08/2023	sunny	10:21	66	69	67		
18/08/2023	sunny	11:23	70	69	71		
24/08/2023	sunny	9:56	61	57	59		
30/08/2023	sunny	13:10	60	62	67		
		Min	57				
		Max	71				
		Average	65				



Air Quality Monitoring Results

Noise Monitoring Results

Noise Monitoring Results for

Contract No. SPW 02/2023

CM1 - Squatter house to the north of YLSTW

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
1/08/2023	9:12	66	67	61	2.1	sunny	75
7/08/2023	10:28	67	68	63	1.7	sunny	75
18/08/2023	14:09	66	68	61	1.1	sunny	75
24/08/2023	9:21	68	71	64	2.2	sunny	75
30/08/2023	10:10	65	67	62	1.7	sunny	75
	Max	68					
	Min	65					

CM2 - Squatter house to the west of YLSTW

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
1/08/2023	10:10	62	65	58	1.7	sunny	75
7/08/2023	11:55	64	69	59	1.9	sunny	75
18/08/2023	15:10	66	69	57	0.9	sunny	75
24/08/2023	10:34	64	66	59	1.4	sunny	75
30/08/2023	11:50	66	69	55	1.8	sunny	75
	Max	66					
	Min	62					

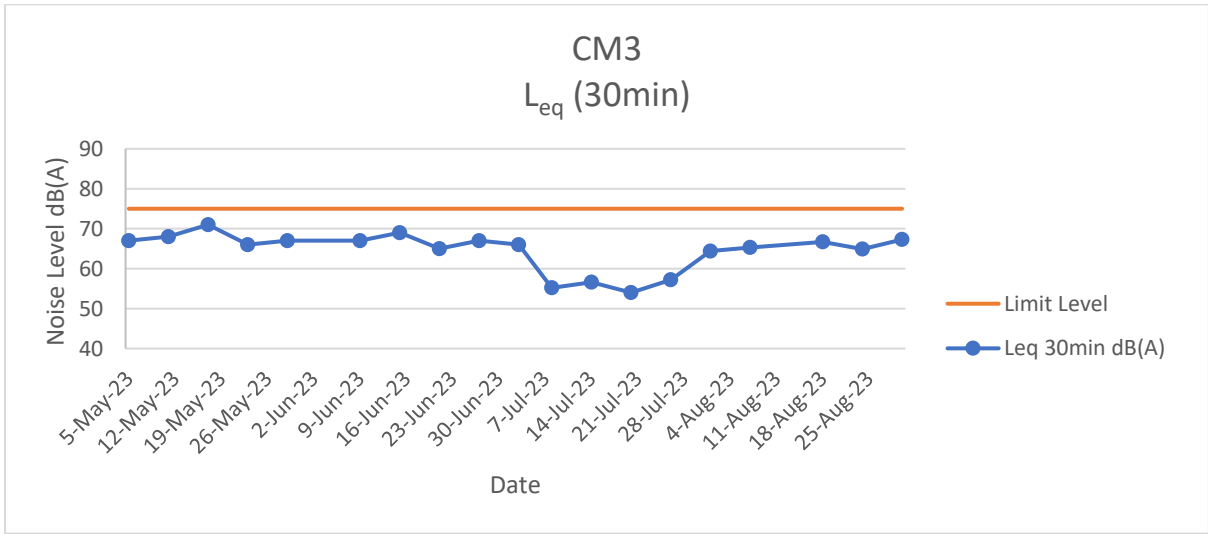
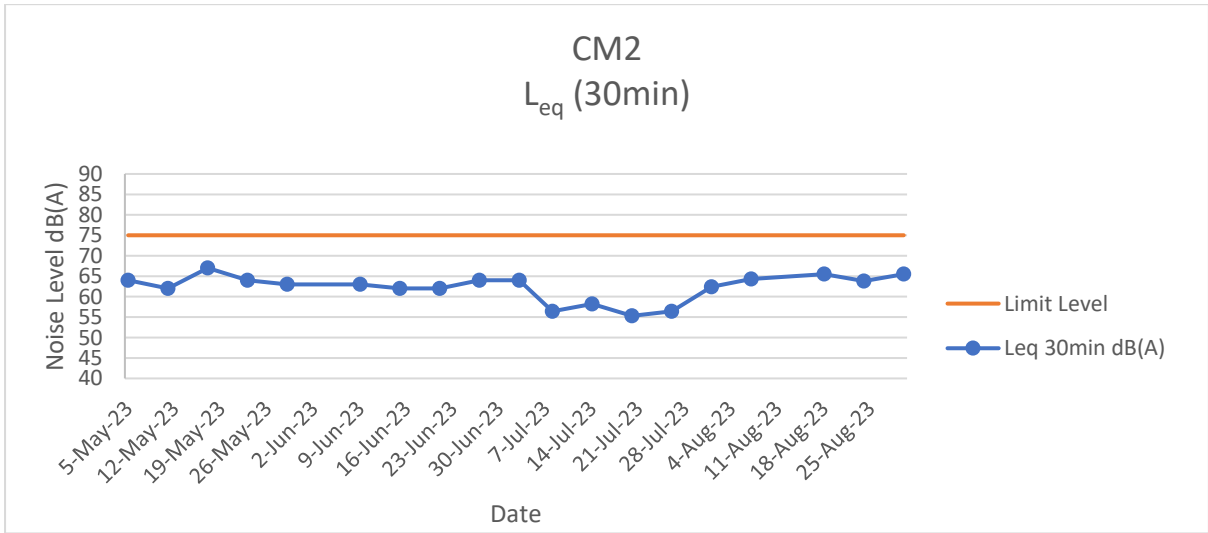
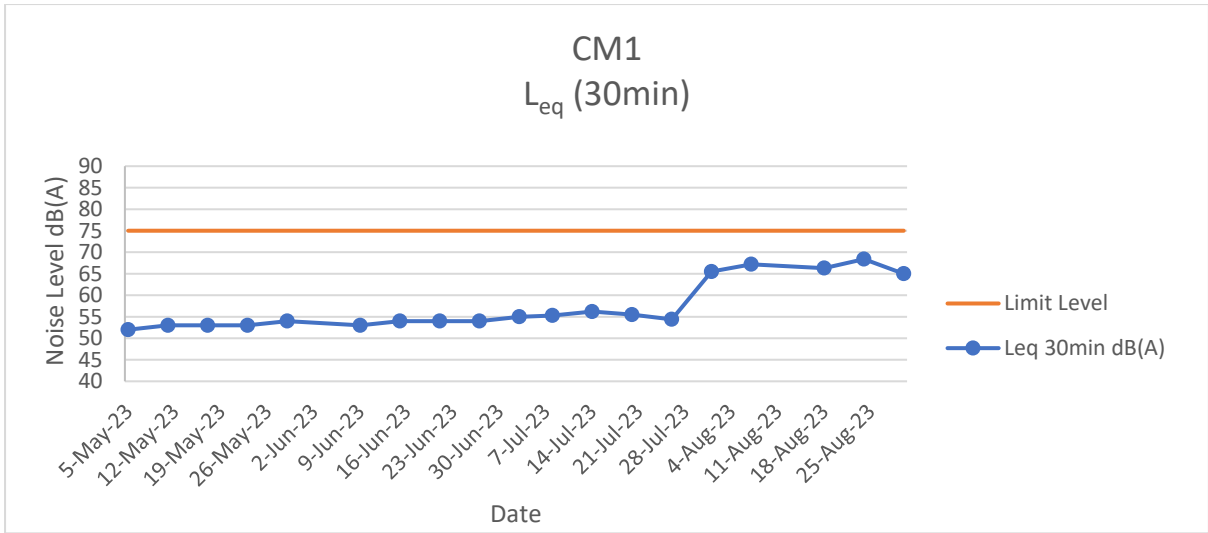
CM3 - Squatter house to the east of YLSTW

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
1/08/2023	13:21	64	67	61	1.9	sunny	75
7/08/2023	14:11	65	68	60	1.5	sunny	75
18/08/2023	16:17	67	69	60	2.2	sunny	75
24/08/2023	13:33	65	68	63	1.2	sunny	75
30/08/2023	14:22	67	69	64	1.8	sunny	75
	Max	67					
	Min	64					

Note:

CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.



Noise Monitoring Results

Water Quality Monitoring Results

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	1/8/2023	Mid-Flood	Sunny	Low	8:03	2.6	M	1.30	1	0.066	164.214	7.08	7.08	1.54	1.545	30.00	30.05	41.4	41.55	3.11	3.125	22.46	22.395	12	12
M1	1/8/2023	Mid-Flood	Sunny	Low	8:04	2.6	M	1.30	2			7.08		1.55		30.10		41.7		3.14		22.33		12	
M2	1/8/2023	Mid-Flood	Sunny	Low	8:24	2.8	M	1.40	1	0.087	190.794	7.18	7.18	0.04	0.035	29.50	29.50	63.1	63.15	6.88	6.89	12.9	13	13	12
M2	1/8/2023	Mid-Flood	Sunny	Low	8:25	2.8	M	1.40	2			7.17		0.03		29.50		63.2		6.9		13.1		11	
M3	1/8/2023	Mid-Flood	Sunny	Low	8:47	2.1	M	1.05	1	0.092	267.986	7.12	7.12	1.1	1.1	30.3	30.25	45.7	44.75	3.45	3.38	34.4	34.65	16	17
M3	1/8/2023	Mid-Flood	Sunny	Low	8:48	2.1	M	1.05	2			7.11		1.1		30.2		43.8		3.31		34.9		18	
M1	1/8/2023	Mid-Ebb	Sunny	Low	13:33	2	M	1.00	1	0.105	284.19	7.17	7.17	2.77	2.565	30.50	30.50	35.0	35.20	2.63	2.645	38.35	38.405	6	8
M1	1/8/2023	Mid-Ebb	Sunny	Low	13:35	2	M	1.00	2			7.17		2.36		30.50		35.4		2.66		38.46		9	
M2	1/8/2023	Mid-Ebb	Sunny	Low	13:08	2.4	M	1.20	1	0.083	296.007	7.12	7.12	2.84	2.94	29.80	29.75	46.0	46.60	3.46	3.505	36.87	37.93	41	40
M2	1/8/2023	Mid-Ebb	Sunny	Low	13:09	2.4	M	1.20	2			7.12		3.04		29.70		47.2		3.55		38.99		38	
M3	1/8/2023	Mid-Ebb	Sunny	Low	12:51	1.99	M	1.00	1	0.079	84.767	7.23	7.24	0.87	0.875	30.4	30.40	46	46.05	3.69	3.695	40.3	40.9	42	44
M3	1/8/2023	Mid-Ebb	Sunny	Low	12:53	1.9	M	0.95	2			7.25		0.88		30.4		46.1		3.7		41.5		45	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
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3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	45.5	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)			
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.		
M1	3/8/2023	Mid-Flood	Sunny	Low	9:33	1.7	M	0.85	1	0.093	179.09	7.05	7.06	1.77	1.805	29.00	29.00	29.00	29.00	31.4	30.65	2.36	2.305	41.85	42.045	17	18
M1	3/8/2023	Mid-Flood	Sunny	Low	9:33	1.7	M	0.85	2			7.06		1.84		29.00		29.9		2.25		42.24		19			
M2	3/8/2023	Mid-Flood	Sunny	Low	9:54	1.8	M	0.90	1	0.1	174.639	7.19	7.21	1.89	1.875	29.30	29.30	29.30	29.30	31.0	31.85	2.33	2.395	39.55	39.605	26	25
M2	3/8/2023	Mid-Flood	Sunny	Low	9:55	1.8	M	0.90	2			7.22		1.86		29.30		32.7		2.46		39.66		24			
M3	3/8/2023	Mid-Flood	Sunny	Low	9:08	1.7	M	0.85	1	0.11	261.746	7.35	7.38	0.88	0.835	29.3	29.30	29.3	29.30	52.2	53.55	3.98	4.08	39.5	39.475	18	18
M3	3/8/2023	Mid-Flood	Sunny	Low	9:08	1.7	M	0.85	2			7.4		0.79		29.3		54.9		4.18		39.45		17			
M1	3/8/2023	Mid-Ebb	Sunny	Low	14:57	2.3	M	1.15	1	0.082	277.486	7.02	7.02	1.77	1.76	29.40	29.40	29.40	29.40	33.0	33.15	2.48	2.49	32.9	33.02	20	22
M1	3/8/2023	Mid-Ebb	Sunny	Low	14:58	2.3	M	1.15	2			7.02		1.75		29.40		33.3		2.5		33.14		23			
M2	3/8/2023	Mid-Ebb	Sunny	Low	14:37	2	M	1.00	1	0.079	295.789	7.05	7.05	1.63	1.645	29.50	29.50	29.50	29.50	32.1	32.30	2.41	2.425	32.43	33	28	29
M2	3/8/2023	Mid-Ebb	Sunny	Low	14:37	2	M	1.00	2			7.05		1.66		29.50		32.5		2.44		33.57		30			
M3	3/8/2023	Mid-Ebb	Sunny	Low	14:13	1.7	M	0.85	1	0.066	81.324	7.33	7.34	1.3	1.35	29.3	29.30	29.3	29.30	57.4	57.70	4.31	4.335	34.5	34.95	38	39
M3	3/8/2023	Mid-Ebb	Sunny	Low	14:13	1.7	M	0.85	2			7.35		1.4		29.3		58		4.36		35.4		40			

Remark

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6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	50.5	54.7	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	5/8/2023	Mid-Flood	Sunny	Low	9:19	1.6	M	0.80	1	0.101	174.06	7.12	7.13	2.44	2.395	28.90	28.90	32.3	32.45	2.43	2.44	38.8	38.725	115	113
M1	5/8/2023	Mid-Flood	Sunny	Low	9:20	1.6	M	0.80	2			7.13		2.35		28.90		32.6		2.45		38.65		110	
M2	5/8/2023	Mid-Flood	Sunny	Low	9:48	1.8	M	0.90	1	0.075	181.1	7.18	7.18	2.29	2.275	29.40	29.40	33.6	33.80	2.53	2.545	37.45	37.39	113	112
M2	5/8/2023	Mid-Flood	Sunny	Low	9:51	1.8	M	0.90	2			7.17		2.26		29.40		34.0		2.56		37.33		110	
M3	5/8/2023	Mid-Flood	Sunny	Low	10:20	1.6	M	0.80	1	0.069	272.584	7.33	7.34	1.3	1.3	30.1	30.10	43.6	43.50	3.81	3.8	41.4	41.95	112	114
M3	5/8/2023	Mid-Flood	Sunny	Low	10:20	1.6	M	0.80	2			7.34		1.3		30.1		43.4		3.79		42.5		116	
M1	5/8/2023	Mid-Ebb	Sunny	Low	15:55	2.1	M	1.05	1	0.095	296.581	7.04	7.04	2.17	2.16	29.20	29.20	35.6	35.75	2.68	2.69	36.9	36.65	56	56
M1	5/8/2023	Mid-Ebb	Sunny	Low	15:57	2.1	M	1.05	2			7.04		2.15		29.20		35.9		2.7		36.4		55	
M2	5/8/2023	Mid-Ebb	Sunny	Low	16:29	2.2	M	1.10	1	0.081	309.378	7.06	7.06	2.03	2.045	29.50	29.50	34.7	34.90	2.61	2.625	34.45	34.515	19	21
M2	5/8/2023	Mid-Ebb	Sunny	Low	16:31	2.2	M	1.10	2			7.06		2.06		29.50		35.1		2.64		34.58		22	
M3	5/8/2023	Mid-Ebb	Sunny	Low	17:00	1.8	M	0.90	1	0.08	77.993	7.11	7.13	1	1	29.44	29.45	42.3	42.35	3.68	3.675	35.1	35.25	36	35
M3	5/8/2023	Mid-Ebb	Sunny	Low	17:00	1.8	M	0.90	2			7.14		1		29.45		42.4		3.67		35.4		34	

Remark

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4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
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For Flood Tide

Monitoring Location	DO		30		SS	
	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	46.5	52.4	135
M3(Impact Station)	3.28	3.14	74	78	135	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
	M1(Impact Station)	2.25	1.91	48.4	50.4	59

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/8/2023	Mid-Flood	Sunny	Low	10:56	2.1	M	1.05	1	0.075	164.307	7.08	7.08	1.64	1.595	29.30	29.30	32.3	32.45	2.43	2.44	4.92	4.955	46	46
M1	7/8/2023	Mid-Flood	Sunny	Low	10:56	2.1	M	1.05	2			7.08		1.55		29.30		32.6		2.45		4.99			
M2	7/8/2023	Mid-Flood	Sunny	Low	11:21	1.9	M	0.95	1	0.092	185.769	7.13	7.13	1.49	1.425	30.00	30.00	33.6	33.80	2.53	2.545	23.16	23.285	47	48
M2	7/8/2023	Mid-Flood	Sunny	Low	11:22	1.9	M	0.95	2			7.13		1.36		30.00		34.0		2.56		23.41			
M3	7/8/2023	Mid-Flood	Sunny	Low	11:59	1.8	M	0.90	1	0.101	268.729	7.22	7.19	0.96	0.975	29.8	29.75	44.4	43.80	4.01	3.955	34.5	34.8	29	29
M3	7/8/2023	Mid-Flood	Sunny	Low	11:59	1.8	M	0.90	2			7.15		0.99		29.7		43.2		3.9		35.1			
M1	7/8/2023	Mid-Ebb	Sunny	Low	17:36	2.3	M	1.15	1	0.066	303.499	7.14	7.15	1.87	1.81	29.10	29.10	35.6	35.75	2.68	2.69	37.72	37.06	10	12
M1	7/8/2023	Mid-Ebb	Sunny	Low	17:37	2.3	M	1.15	2			7.15		1.75		29.10		35.9		2.7		36.4			
M2	7/8/2023	Mid-Ebb	Sunny	Low	17:07	2.4	M	1.20	1	0.071	287.205	7.11	7.12	1.73	1.695	29.90	29.90	34.7	34.90	2.61	2.625	25.11	25.16	11	11
M2	7/8/2023	Mid-Ebb	Sunny	Low	17:08	2.4	M	1.20	2			7.12		1.66		29.90		35.1		2.64		25.21			
M3	7/8/2023	Mid-Ebb	Sunny	Low	16:33	2	M	1.00	1	0.082	84.771	7.23	7.27	1	1	29.7	29.65	43.3	43.05	3.79	3.765	33.3	33.7	13	14
M3	7/8/2023	Mid-Ebb	Sunny	Low	16:33	2	M	1.00	2			7.31		1		29.6		42.8		3.74		34.1			

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	9/8/2023	Mid-Flood	Cloudy	Low	13:33	2	M	1.00	1	0.076	192.566	7.07	7.07	1.21	1.22	29.10	29.10	32.3	32.65	2.43	2.455	19.62	19.905	15	14
M1	9/8/2023	Mid-Flood	Cloudy	Low	13:34	2	M	1.00	2			7.07		1.23		29.10		33.0		2.48		20.19		13	
M2	9/8/2023	Mid-Flood	Cloudy	Low	13:58	1.6	M	0.80	1	0.103	189.885	7.12	7.12	1.44	1.465	29.60	29.60	37.0	36.90	2.78	2.775	17.77	17.915	15	15
M2	9/8/2023	Mid-Flood	Cloudy	Low	13:59	1.6	M	0.80	2			7.11		1.49		29.60		36.8		2.77		18.06		14	
M3	9/8/2023	Mid-Flood	Cloudy	Low	14:33	1.5	M	0.75	1	0.111	271.662	7.23	7.23	1.23	1.235	29.44	29.50	49	49.15	4.26	4.275	22.45	22.84	13	14
M3	9/8/2023	Mid-Flood	Cloudy	Low	14:33	1.5	M	0.75	2			7.22		1.24		29.55		49.3		4.29		23.23		15	
M1	9/8/2023	Mid-Ebb	Cloudy	Low	10:11	2.1	M	1.05	1	0.094	301.349	7.12	7.12	1.77	1.73	28.80	28.80	33.1	33.35	2.49	2.51	27.36	27.235	13	13
M1	9/8/2023	Mid-Ebb	Cloudy	Low	10:12	2.1	M	1.05	2			7.12		1.69		28.80		33.6		2.53		27.11		13	
M2	9/8/2023	Mid-Ebb	Cloudy	Low	9:43	1.8	M	0.90	1	0.063	312.077	7.14	7.14	1.70	1.69	28.90	28.90	38.3	37.30	2.88	2.805	27.65	27.765	23	22
M2	9/8/2023	Mid-Ebb	Cloudy	Low	9:44	1.8	M	0.90	2			7.14		1.68		28.90		36.3		2.73		27.88		20	
M3	9/8/2023	Mid-Ebb	Cloudy	Low	9:15	1.7	M	0.85	1	0.057	84.129	7.43	7.39	1.22	1.205	29.1	29.15	57	57.05	4.86	4.875	28.8	28.3	18	20
M3	9/8/2023	Mid-Ebb	Cloudy	Low	9:15	1.7	M	0.85	2			7.35		1.19		29.2		57.1		4.89		27.8		21	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)			
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.		
M1	11/8/2023	Mid-Flood	Cloudy	Low	17:29	2	M	1.00	1	0.083	178.727	7.12	7.12	2.33	2.38	29.20	29.20	35.2	35.75	2.65	2.69	26.82	26.795	12	13		
M1	11/8/2023	Mid-Flood	Cloudy	Low	17:30	2	M	1.00	2			7.12		2.43		29.20		36.3		2.73		26.77					
M2	11/8/2023	Mid-Flood	Cloudy	Low	17:55	1.6	M	0.80	1	0.095	174.228	7.19	7.19	2.54	2.515	29.40	29.40	37.5	37.70	2.82	2.835	27.59	27.325	8	8		
M2	11/8/2023	Mid-Flood	Cloudy	Low	17:56	1.6	M	0.80	2			7.19		2.49		29.40		37.9		2.85		27.06					
M3	11/8/2023	Mid-Flood	Cloudy	Low	18:23	1.6	M	0.80	1	0.098	268.796	7.11	7.12	0.78	0.83	29.6	29.60	42.1	42.30	3.31	3.33	31.8	31.3	9	8		
M3	11/8/2023	Mid-Flood	Cloudy	Low	18:23	1.6	M	0.80	2			7.13		0.88		29.6		42.5		3.35		30.8					
M1	11/8/2023	Mid-Ebb	Cloudy	Low	9:57	2.1	M	1.05	1	0.092	299.47	7.21	7.21	2.17	2.2	28.70	28.70	35.1	34.75	2.64	2.615	27.11	27.08	5	6		
3.31	11/8/2023	Mid-Ebb	Cloudy	Low	9:58	2.1	M	1.05	2			7.21		2.23		28.70		34.4		2.59		27.05					
M2	11/8/2023	Mid-Ebb	Cloudy	Low	9:26	1.8	M	0.90	1	0.096	307.952	7.24	7.24	2.31	2.295	28.90	28.90	37.0	36.80	2.78	2.765	27.79	27.84	30	31		
M2	11/8/2023	Mid-Ebb	Cloudy	Low	9:28	1.8	M	0.90	2			7.24		2.28		28.90		36.6		2.75		27.89					
M3	11/8/2023	Mid-Ebb	Cloudy	Low	9:03	1.7	M	0.85	1	0.097	84.354	7.33	7.37	0.98	0.985	29.1	29.10	44.6	44.85	3.51	3.53	35.7	35.8	16	17		
M3	11/8/2023	Mid-Ebb	Cloudy	Low	9:04	1.7	M	0.85	2			7.4		0.99		29.1		45.1		3.55		35.9					

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/8/2023	Mid-Flood	Cloudy	Low	17:28	2.8	M	1.40	1	0.075	183.996	7.12	7.12	2.86	2.795	29.20	29.20	33.9	33.50	2.55	2.52	26.8	26.955	16	15
M1	14/8/2023	Mid-Flood	Cloudy	Low	17:29	2.8	M	1.40	2			7.12		2.73		29.20		33.1		2.49		27.11			
M2	14/8/2023	Mid-Flood	Cloudy	Low	17:53	2.7	M	1.35	1	0.105	175.489	7.18	7.18	1.56	1.57	29.20	29.20	33.0	33.45	2.48	2.515	19.53	19.795	7	7
M2	14/8/2023	Mid-Flood	Cloudy	Low	17:54	2.7	M	1.35	2			7.18		1.58		29.20		33.9		2.55		20.06			
M3	14/8/2023	Mid-Flood	Cloudy	Low	18:30	2	M	1.00	1	0.113	266.387	7.44	7.45	0.67	0.72	29.2	29.20	52.8	52.35	4.46	4.42	24.6	24.75	20	21
M3	14/8/2023	Mid-Flood	Cloudy	Low	18:30	2	M	1.00	2			7.45		0.77		29.2		51.9		4.38		24.9			
M1	14/8/2023	Mid-Ebb	Cloudy	Low	12:38	2.4	M	1.20	1	0.082	307.269	7.17	7.18	1.40	1.44	29.10	29.10	35.0	34.45	2.63	2.59	17.06	17.195	23	22
M1	14/8/2023	Mid-Ebb	Cloudy	Low	12:39	2.4	M	1.20	2			7.18		1.48		29.10		33.9		2.55		17.33			
M2	14/8/2023	Mid-Ebb	Cloudy	Low	12:11	2.2	M	1.10	1	0.085	311.795	7.15	7.15	1.72	1.75	29.20	29.20	41.0	40.10	3.08	3.015	19.75	19.815	25	27
M2	14/8/2023	Mid-Ebb	Cloudy	Low	12:12	2.2	M	1.10	2			7.15		1.78		29.20		39.2		2.95		19.88			
M3	14/8/2023	Mid-Ebb	Cloudy	Low	11:09	1.5	M	0.75	1	0.087	84.985	7.65	7.61	0.71	0.74	29.21	29.21	47.5	47.60	4.22	4.225	27.6	27.2	26	25
M3	14/8/2023	Mid-Ebb	Cloudy	Low	11:09	1.5	M	0.75	2			7.56		0.77		29.21		47.7		4.23		26.8			

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/8/2023	Mid-Flood	Sunny	Low	8:24	2.6	M	1.30	1	0.077	195.283	7.15	7.15	1.29	1.31	29.60	29.60	37.1	36.25	2.79	2.725	17.86	17.935	27	27
M1	16/8/2023	Mid-Flood	Sunny	Low	8:24	2.6	M	1.30	2			7.15		1.33		29.60		35.4		2.66		18.01		26	
M2	16/8/2023	Mid-Flood	Sunny	Low	8:49	2.4	M	1.20	1	0.082	192.489	7.18	7.18	1.48	1.57	29.60	29.60	34.3	34.75	2.58	2.615	19.75	19.65	18	20
M2	16/8/2023	Mid-Flood	Sunny	Low	8:51	2.4	M	1.20	2			7.18		1.66		29.60		35.2		2.65		19.55		22	
M3	16/8/2023	Mid-Flood	Sunny	Low	9:30	2	M	1.00	1	0.089	264.995	7.22	7.27	1.02	1.025	30.2	30.20	44.2	44.20	3.95	3.95	24	24.3	19	20
M3	16/8/2023	Mid-Flood	Sunny	Low	9:30	2	M	1.00	2			7.31		1.03		30.2		44.2		3.95		24.6		21	
M1	16/8/2023	Mid-Ebb	Sunny	Low	13:55	2.5	M	1.25	1	0.082	291.518	7.15	7.15	1.28	1.305	29.40	29.40	40.3	39.75	3.03	2.99	21.06	21.195	24	24
M1	16/8/2023	Mid-Ebb	Sunny	Low	13:55	2.5	M	1.25	2			7.15		1.33		29.40		39.2		2.95		21.33		23	
M2	16/8/2023	Mid-Ebb	Sunny	Low	13:29	2.1	M	1.05	1	0.086	309.826	7.19	7.19	1.65	1.675	29.40	29.40	38.3	37.85	2.88	2.845	22.86	23.73	25	25
M2	16/8/2023	Mid-Ebb	Sunny	Low	13:30	2.1	M	1.05	2			7.19		1.70		29.40		37.4		2.81		24.6		25	
M3	16/8/2023	Mid-Ebb	Sunny	Low	13:05	1.4	M	0.70	1	0.088	87.943	7.35	7.35	1.1	1.2	29.4	29.40	50	50.75	4.2	4.26	30.2	30.7	28	29
M3	16/8/2023	Mid-Ebb	Sunny	Low	13:05	1.4	M	0.70	2			7.34		1.3		29.4		51.5		4.32		31.2		30	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/8/2023	Mid-Flood	Sunny	Low	9:40	2.4	M	1.20	1	0.084	200.455	7.08	7.09	1.55	1.59	29.40	29.40	38.3	37.50	2.88	2.82	27.88	28.255	9	10
M1	18/8/2023	Mid-Flood	Sunny	Low	9:42	2.4	M	1.20	2			7.09		1.63		29.40		36.7		2.76		28.63		11	
M2	18/8/2023	Mid-Flood	Sunny	Low	10:15	2.1	M	1.05	1	0.092	192.293	7.11	7.12	1.78	1.82	29.70	29.70	33.0	32.80	2.48	2.465	29.12	29.63	7	7
M2	18/8/2023	Mid-Flood	Sunny	Low	10:16	2.1	M	1.05	2			7.13		1.86		29.70		32.6		2.45		30.14		6	
M3	18/8/2023	Mid-Flood	Sunny	Low	10:50	1.5	M	0.75	1	0.101	276.528	7.23	7.22		0	29.3	29.30	48.6	49.35	3.76	3.705	34	34.25	18	19
M3	18/8/2023	Mid-Flood	Sunny	Low	10:50	1.5	M	0.75	2			7.2		29.3		50.1		3.65		34.5		20			
M1	18/8/2023	Mid-Ebb	Sunny	Low	14:36	1.8	M	0.90	1	0.068	289.923	7.14	7.15	1.48	1.505	30.10	30.10	39.0	38.50	2.93	2.895	28	27.725	10	11
M1	18/8/2023	Mid-Ebb	Sunny	Low	14:37	1.8	M	0.90	2			7.15		1.53		30.10		38.0		2.86		27.45		11	
M2	18/8/2023	Mid-Ebb	Sunny	Low	15:05	1.7	M	0.85	1	0.086	274.59	7.21	7.22	1.99	2.03	29.90	29.90	37.0	36.40	2.78	2.735	24.55	24.325	11	11
M2	18/8/2023	Mid-Ebb	Sunny	Low	15:07	1.7	M	0.85	2			7.23		2.07		29.90		35.8		2.69		24.1		10	
M3	18/8/2023	Mid-Ebb	Sunny	Low	15:45	1.6	M	0.80	1	0.089	80.857	7.34	7.34	1.08	1.085	29.7	29.70	38.6	38.40	3.39	3.38	35.5	35.7	21	21
M3	18/8/2023	Mid-Ebb	Sunny	Low	15:45	1.6	M	0.80	2			7.33		1.09		29.7		38.2		3.37		35.9		21	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)			
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.		
M1	21/8/2023	Mid-Flood	Sunny	Low	9:38	2.8	M	1.40	1	0.089	187.718	7.21	7.22	1.78	1.805	29.80	29.80	34.0	34.70	2.56	2.61	33.16	33.22	13	14		
M1	21/8/2023	Mid-Flood	Sunny	Low	9:39	2.8	M	1.40	2			7.22		1.83		29.80		35.4		2.66		33.28					
M2	21/8/2023	Mid-Flood	Sunny	Low	10:10	2.6	M	1.30	1	0.074	174.366	7.19	7.19	1.91	1.95	29.70	29.70	33.4	33.25	2.51	2.5	31.66	31.72	19	20		
M2	21/8/2023	Mid-Flood	Sunny	Low	10:11	2.6	M	1.30	2			7.19		1.99		29.70		33.1		2.49		31.78					
M3	21/8/2023	Mid-Flood	Sunny	Low	10:40	2.1	M	1.05	1	0.071	267.672	7.43	7.45	1	1	29.5	29.50	62.2	62.55	5.18	5.185	35.9	36.05	26	27		
M3	21/8/2023	Mid-Flood	Sunny	Low	10:40	2.1	M	1.05	2			7.47		1		29.5		62.9		5.19		36.2					
M1	21/8/2023	Mid-Ebb	Sunny	Low	16:28	2.1	M	1.05	1	0.064	272.535	7.18	7.18	2.08	2.055	29.50	29.50	35.0	35.60	2.63	2.675	29.94	29.355	24	23		
M1	21/8/2023	Mid-Ebb	Sunny	Low	16:30	2.1	M	1.05	2			7.18		2.03		29.50		36.2		2.72		28.77					
M2	21/8/2023	Mid-Ebb	Sunny	Low	15:55	1.9	M	0.95	1	0.079	290.776	7.22	7.23	1.99	2.015	29.30	29.30	33.4	34.00	2.51	2.555	28.55	28.725	28	29		
M2	21/8/2023	Mid-Ebb	Sunny	Low	15:57	1.9	M	0.95	2			7.23		2.04		29.30		34.6		2.6		28.9					
M3	21/8/2023	Mid-Ebb	Sunny	Low	15:09	1.6	M	0.80	1	0.083	83.932	7.55	7.59	1	1	29.4	29.40	63.2	63.05	5.29	5.275	37	37.75	27	27		
M3	21/8/2023	Mid-Ebb	Sunny	Low	15:09	1.6	M	0.80	2			7.63		1		29.4		62.9		5.26		38.5					

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/8/2023	Mid-Flood	Sunny	Low	11:05	2.8	M	1.40	1	0.09	175.178	7.24	7.24	2.22	2.2	29.70	29.70	37.1	37.50	2.79	2.82	34.55	34.62	21	21
M1	23/8/2023	Mid-Flood	Sunny	Low	11:06	2.8	M	1.40	2			7.23		2.18		29.70		37.9		2.85		34.69		20	
M2	23/8/2023	Mid-Flood	Sunny	Low	11:41	2.6	M	1.30	1	0.081	168.026	7.2	7.20	1.99	2.02	29.50	29.50	36.8	36.30	2.77	2.73	35.66	35.735	18	18
M2	23/8/2023	Mid-Flood	Sunny	Low	11:42	2.6	M	1.30	2			7.2		2.05		29.50		35.8		2.69		35.81		17	
M3	23/8/2023	Mid-Flood	Sunny	Low	12:09	2	M	1.00	1	0.077	264.293	7.6	7.55	1.02	1.025	30	30.00	64.4	63.95	4.89	4.855	48.9	48.5	22	21
M3	23/8/2023	Mid-Flood	Sunny	Low	12:09	2	M	1.00	2			7.5		1.03		30		63.5		4.82		48.1		20	
M1	23/8/2023	Mid-Ebb	Sunny	Low	17:21	2.1	M	1.05	1	0.073	279.929	7.25	7.25	2.08	2.105	29.40	29.40	33.9	34.35	2.55	2.585	40.12	39.95	18	19
M1	23/8/2023	Mid-Ebb	Sunny	Low	17:23	2.1	M	1.05	2			7.25		2.13		29.40		34.8		2.62		39.78		19	
M2	23/8/2023	Mid-Ebb	Sunny	Low	16:57	1.9	M	0.95	1	0.096	275.512	7.28	7.28	2.05	2.05	29.00	29.00	32.5	33.00	2.44	2.48	38.12	38.29	29	28
M2	23/8/2023	Mid-Ebb	Sunny	Low	16:58	1.9	M	0.95	2			7.28		2.05		29.00		33.5		2.52		38.46		27	
M3	23/8/2023	Mid-Ebb	Sunny	Low	16:32	1.7	M	0.85	1	0.099	77.693	7.3	7.30	0.99	0.98	30	30.00	64.2	64.05	4.97	4.975	49.8	49.65	36	36
M3	23/8/2023	Mid-Ebb	Sunny	Low	16:33	1.7	M	0.85	2			7.29		0.97		30		63.9		4.98		49.5		35	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	52.8	57.2	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/8/2023	Mid-Flood	Cloudy	Low	17:08	2.4	M	1.20	1	0.099	173.295	7.16	7.16	1.28	1.305	29.70	29.70	37.1	34.85	2.79	2.62	9.42	9.875	14	14
M1	25/8/2023	Mid-Flood	Cloudy	Low	17:08	2.4	M	1.20	2			7.16		1.33		29.70		32.6		2.45		10.33		13	
M2	25/8/2023	Mid-Flood	Cloudy	Low	17:42	2.2	M	1.10	1	0.081	200.291	7.14	7.15	0.94	0.94	30.30	30.30	32.9	33.40	2.47	2.51	12.09	12.27	13	12
M2	25/8/2023	Mid-Flood	Cloudy	Low	17:43	2.2	M	1.10	2			7.15		0.94		30.30		33.9		2.55		12.45		10	
M3	25/8/2023	Mid-Flood	Cloudy	Low	18:10	1.8	M	0.90	1	0.076	273.641	7.11	7.14	0.67	0.72	29.9	29.85	73.1	73.65	6.04	6.075	35.6	35.85	11	11
M3	25/8/2023	Mid-Flood	Cloudy	Low	18:10	1.8	M	0.90	2			7.16		0.77		29.8		74.2		6.11		36.1		10	
M1	25/8/2023	Mid-Ebb	Cloudy	Low	10:36	2	M	1.00	1	0.067	279.042	7.11	7.11	1.47	1.51	30.10	30.10	35.0	35.90	2.63	2.7	10.33	10.48	10	10
M1	25/8/2023	Mid-Ebb	Cloudy	Low	10:37	2	M	1.00	2			7.1		1.55		30.10		36.8		2.77		10.63		10	
M2	25/8/2023	Mid-Ebb	Cloudy	Low	9:58	1.8	M	0.90	1	0.079	288.812	7.12	7.12	1.21	1.195	30.40	30.40	33.8	34.25	2.54	2.575	14.48	14.79	26	28
M2	25/8/2023	Mid-Ebb	Cloudy	Low	9:59	1.8	M	0.90	2			7.12		1.18		30.40		34.7		2.61		15.1		29	
M3	25/8/2023	Mid-Ebb	Cloudy	Low	9:40	1.9	M	0.95	1	0.073	77.988	7.32	7.33	0.8	0.785	30	30.00	62.1	62.10	5.18	5.185	45	45.55	32	33
M3	25/8/2023	Mid-Ebb	Cloudy	Low	9:41	1.9	M	0.95	2			7.34		0.77		30		62.1		5.19		46.1		34	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	28/8/2023	Mid-Flood	Cloudy	Low	16:11	2.7	M	1.35	1	0.087	176.613	7.16	7.16	3.83	3.8	29.90	29.90	33.0	32.80	2.48	2.465	14.8	14.7	23	22
M1	28/8/2023	Mid-Flood	Cloudy	Low	16:12	2.7	M	1.35	2			7.16		3.77		29.90		32.6		2.45		14.6		21	
M2	28/8/2023	Mid-Flood	Cloudy	Low	16:45	2.5	M	1.25	1	0.078	164.338	7.14	7.14	3.62	3.585	29.80	29.80	33.9	33.65	2.55	2.53	15.12	15.225	30	30
M2	28/8/2023	Mid-Flood	Cloudy	Low	16:45	2.5	M	1.25	2			7.14		3.55		29.80		33.4		2.51		15.33		29	
M3	28/8/2023	Mid-Flood	Cloudy	Low	17:09	1.6	M	0.80	1	0.071	264.327	7.21	7.22	0.56	0.595	29.3	29.30	55.6	30.37	4.53	4.565	34.7	35.25	28	28
M3	28/8/2023	Mid-Flood	Cloudy	Low	17:09	1.5	M	0.75	2			7.22		0.63		29.3		56.2		4.6		35.8		27	
M1	28/8/2023	Mid-Ebb	Cloudy	Low	11:28	2.3	M	1.15	1	0.071	286.177	7.12	7.12	3.34	3.295	29.90	29.90	32.3	32.70	2.43	2.46	16.79	16.945	33	34
M1	28/8/2023	Mid-Ebb	Cloudy	Low	11:30	2.3	M	1.15	2			7.12		3.25		29.90		33.1		2.49		17.1		35	
M2	28/8/2023	Mid-Ebb	Cloudy	Low	10:53	2.2	M	1.10	1	0.076	318.604	7.1	7.10	3.21	3.195	29.60	29.60	32.1	32.55	2.41	2.445	20.33	20.745	20	22
M2	28/8/2023	Mid-Ebb	Cloudy	Low	10:53	2.2	M	1.10	2			7.1		3.18		29.60		33.0		2.48		21.16		23	
M3	28/8/2023	Mid-Ebb	Cloudy	Low	10:25	1.4	M	0.70	1	0.079	83.772	7.43	7.46	0.66	0.685	30	30.00	65.7	65.80	5.6	5.64	32.8	33.35	60	62
M3	28/8/2023	Mid-Ebb	Cloudy	Low	10:25	1.4	M	0.70	2			7.48		0.71		30		65.9		5.68		33.9		63	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/8/2023	Mid-Flood	Cloudy	Low	17:49	2.8	M	1.40	1	0.094	187.722	7.21	7.21	2.23	2.225	28.30	28.30	40.4	39.90	3.04	3	42.21	42.035	62	61
M1	30/8/2023	Mid-Flood	Cloudy	Low	17:50	2.8	M	1.40	2			7.2		2.22		28.30		39.4		2.96		41.86		59	
M2	30/8/2023	Mid-Flood	Cloudy	Low	18:18	2.6	M	1.30	1	0.084	198.44	7.19	7.19	2.29	2.325	28.30	28.35	37.9	37.37	2.85	2.81	42.92	42.735	64	65
M2	30/8/2023	Mid-Flood	Cloudy	Low	18:20	2.6	M	1.30	2			7.19		2.36		28.40		36.8		2.77		42.55		66	
M3	30/8/2023	Mid-Flood	Cloudy	Low	18:45	2	M	1.00	1	0.079	272.952	7.44	7.47	0.88	0.875	28	28.00	38.6	38.40	3.39	3.375	50.23	49.715	65	66
M3	30/8/2023	Mid-Flood	Cloudy	Low	18:44	2	M	1.00	2			7.5		0.87		28		38.2		3.36		49.2		67	
M1	30/8/2023	Mid-Ebb	Cloudy	Low	13:09	2.5	M	1.25	1	0.084	299.326	7.16	7.16	2.31	2.3	28.90	28.90	35.6	35.18	2.68	2.645	40.69	40.28	52	54
M1	30/8/2023	Mid-Ebb	Cloudy	Low	13:10	2.5	M	1.25	2			7.16		2.29		28.90		34.7		2.61		39.87		55	
M2	30/8/2023	Mid-Ebb	Cloudy	Low	12:45	2.4	M	1.20	1	0.076	281.594	7.16	7.16	2.41	2.445	28.80	28.80	34.2	33.65	2.57	2.53	36.66	37.035	29	30
M2	30/8/2023	Mid-Ebb	Cloudy	Low	12:45	2.4	M	1.20	2			7.16		2.48		28.80		33.1		2.49		37.41		31	
M3	30/8/2023	Mid-Ebb	Cloudy	Low	12:21	1.7	M	0.85	1	0.072	79.683	7.23	7.28	1	1	29	29.00	50.1	49.35	3.76	3.705	40.2	40.65	26	25
M3	30/8/2023	Mid-Ebb	Cloudy	Low	12:21	1.7	M	0.85	2			7.33		1		29		48.6		3.65		41.1		24	

Remark

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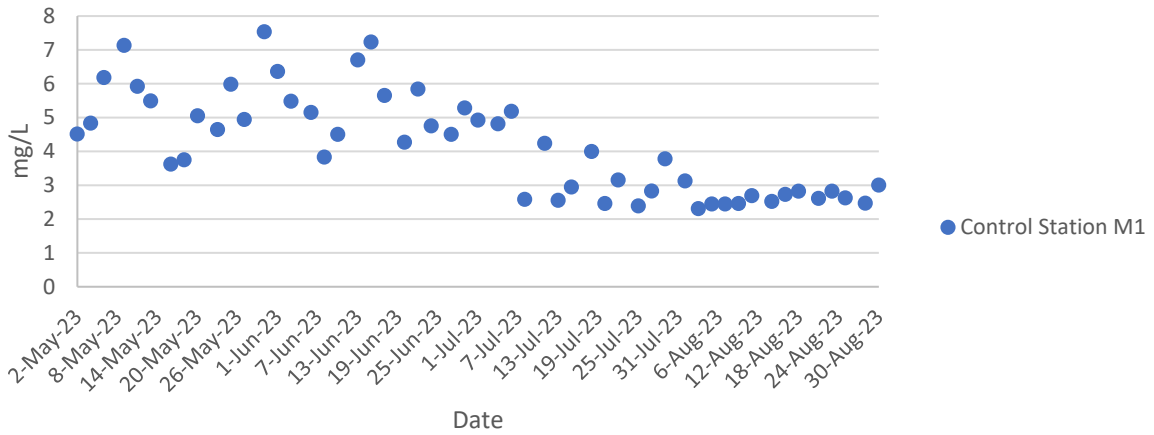
For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	50.4	54.6	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

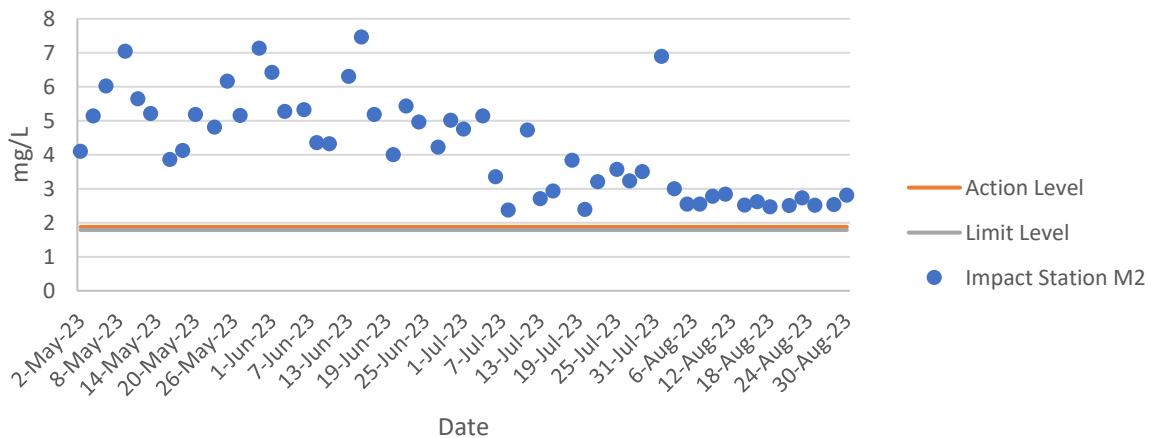
For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.5	59	68

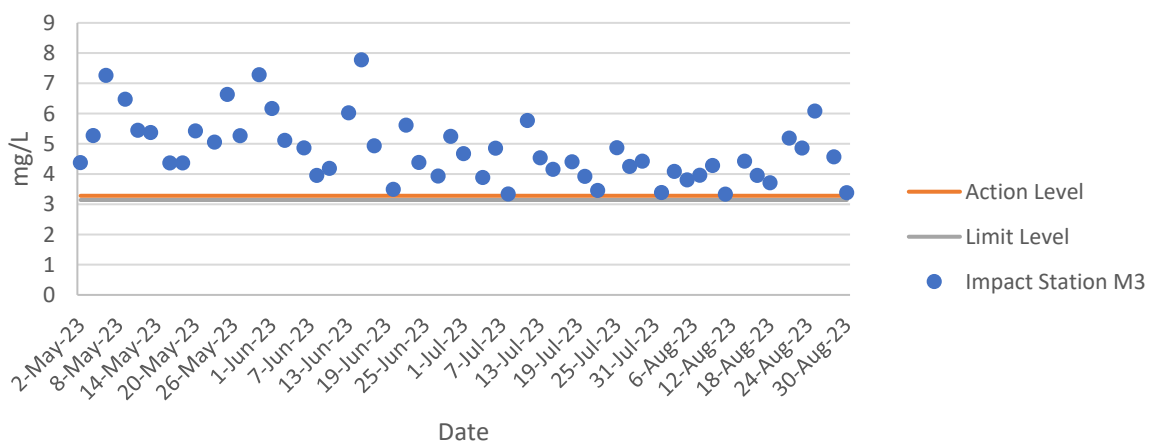
Dissolved Oxygen at Mid-Flood Tide



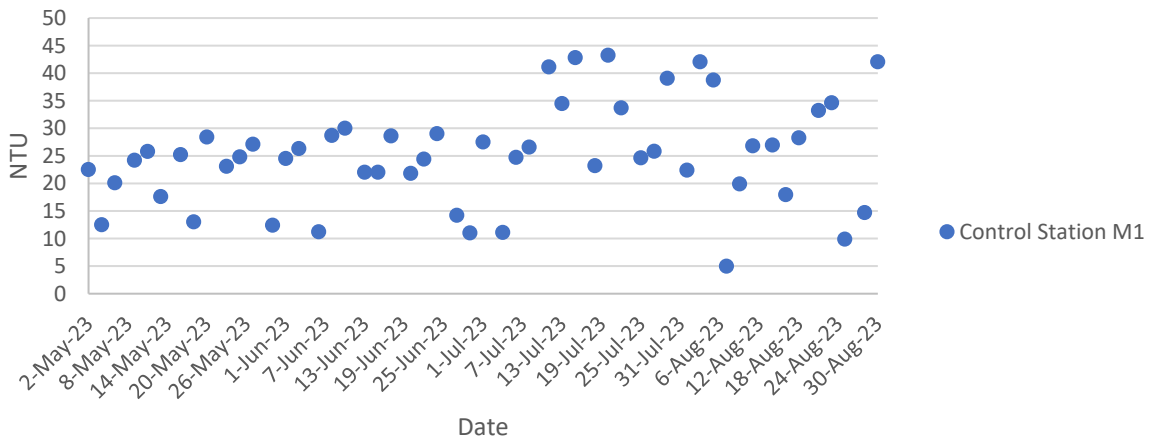
Dissolved Oxygen at Mid-Flood Tide



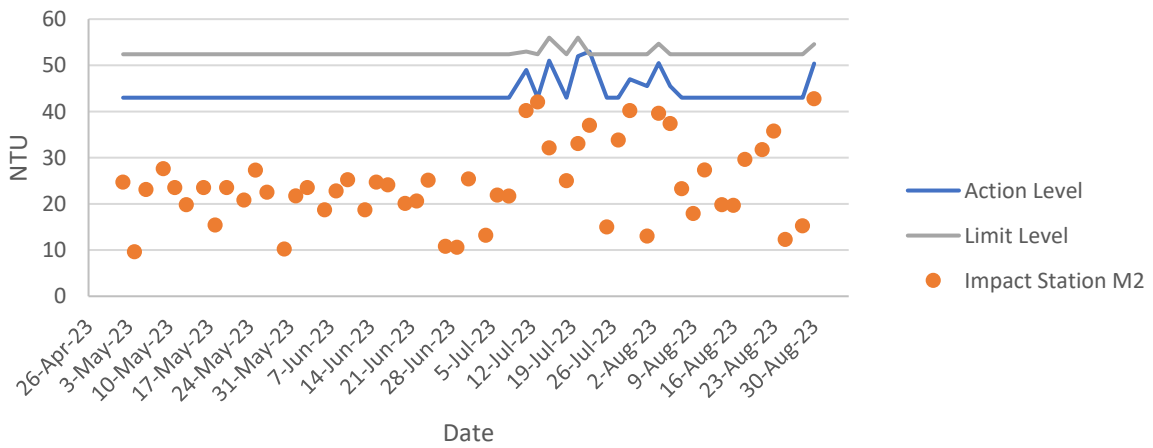
Dissolved Oxygen at Mid-Flood Tide



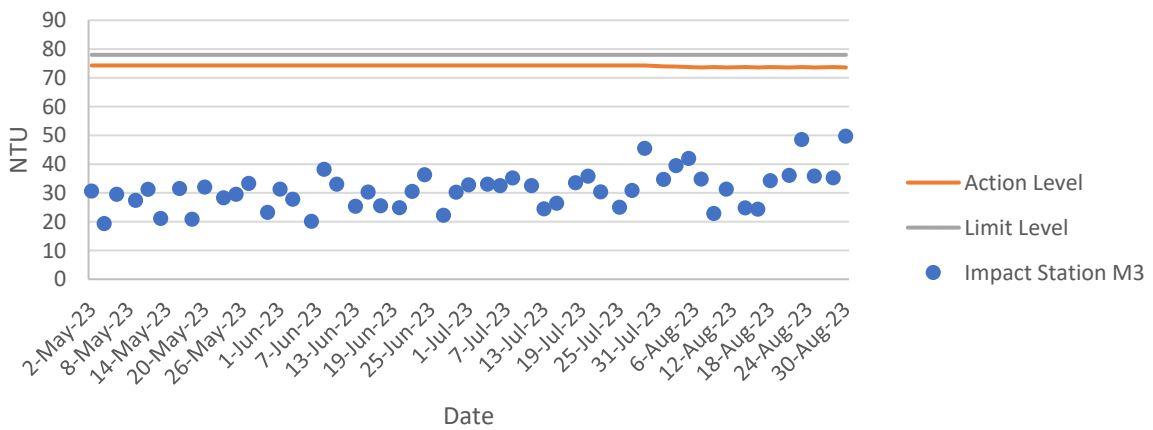
Turbidity at Mid-Flood Tide



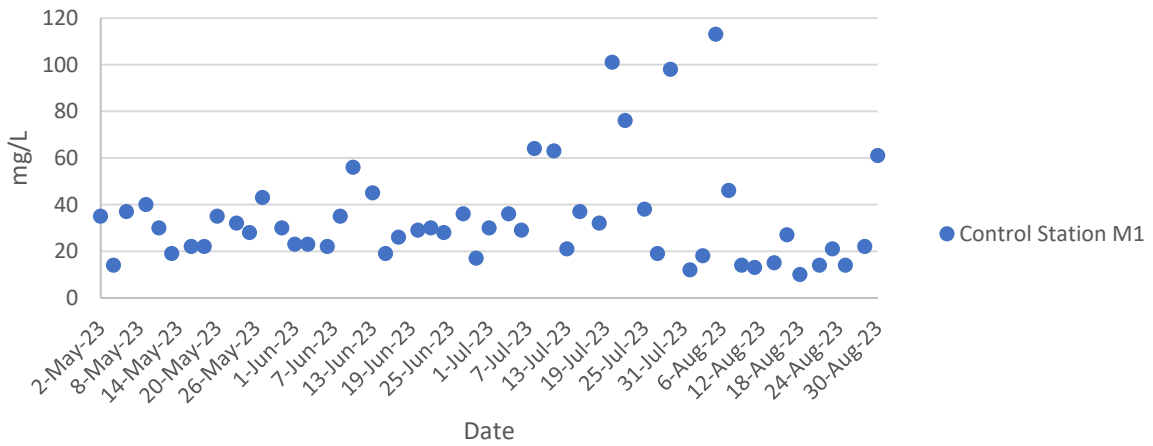
Turbidity at Mid-Flood Tide



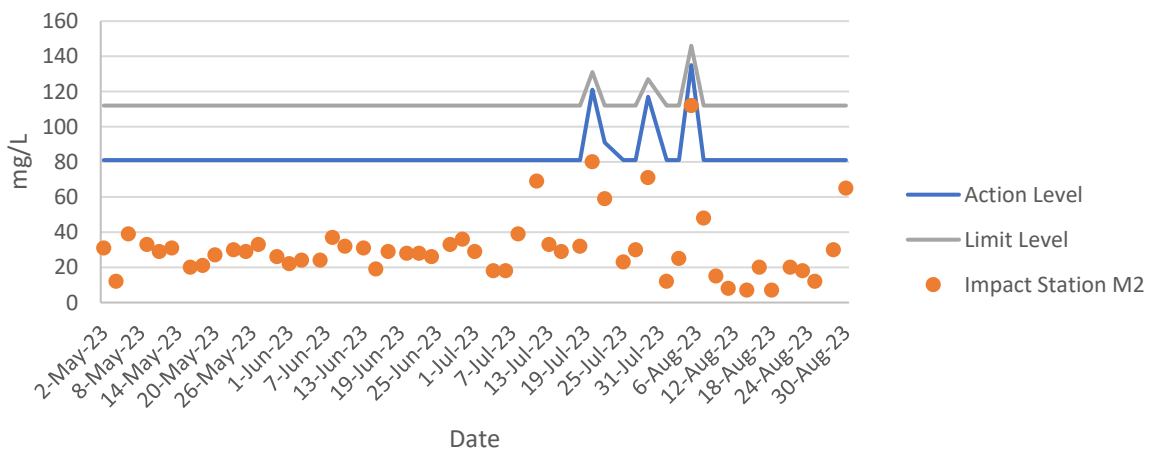
Turbidity at Mid-Flood Tide



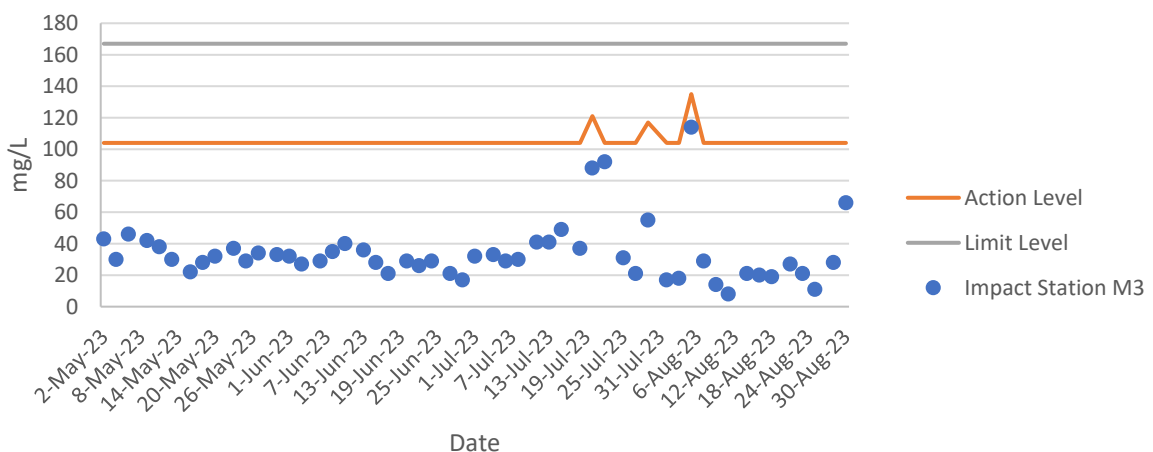
Total Suspended Solids at Mid-Flood Tide



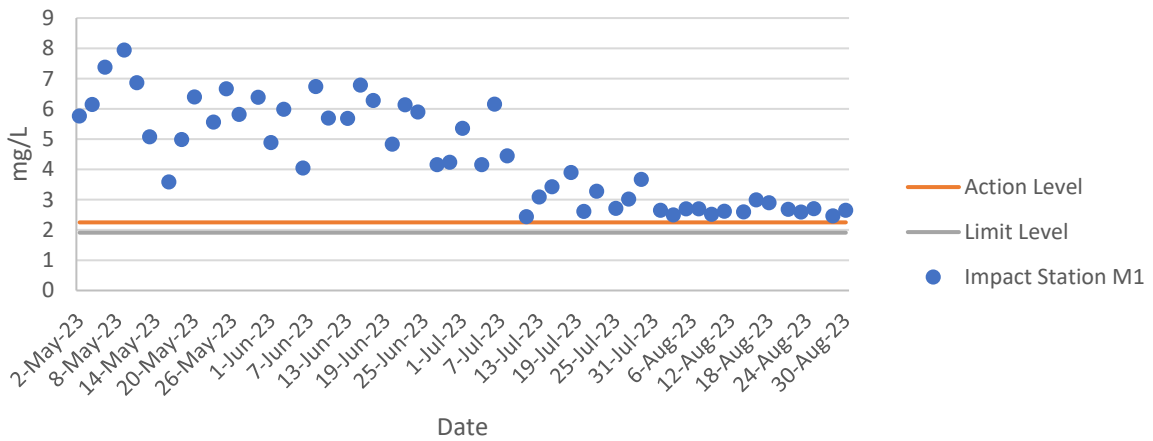
Total Suspended Solids at Mid-Flood Tide



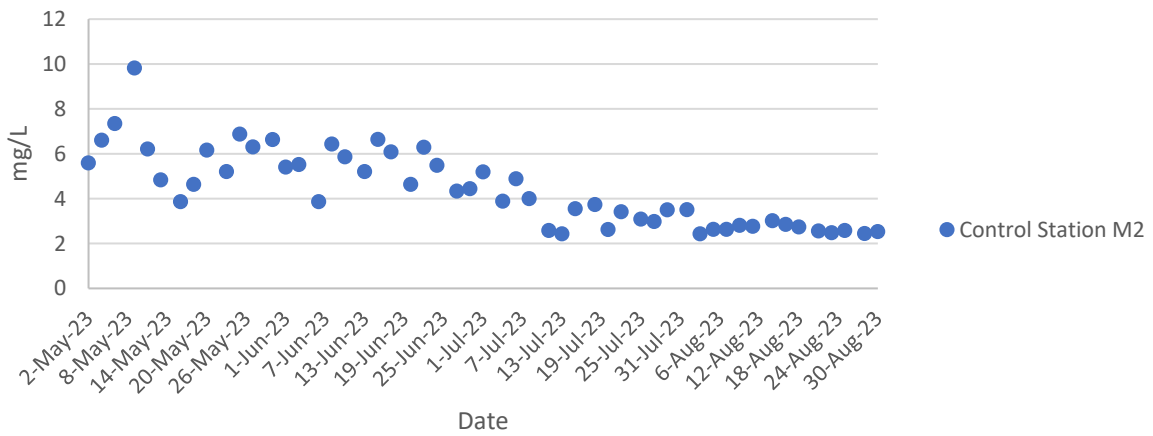
Total Suspended Solids at Mid-Flood Tide



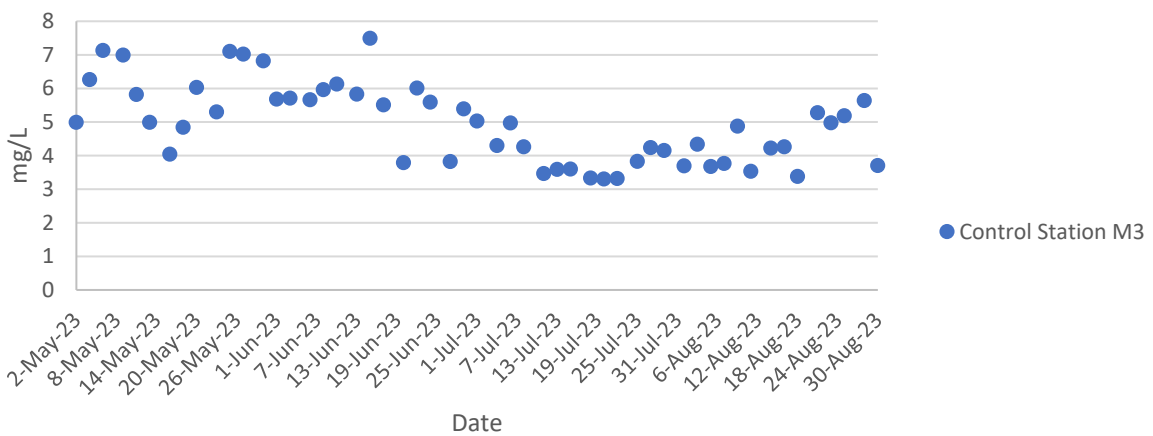
Dissolved Oxygen at Mid-Ebb Tide



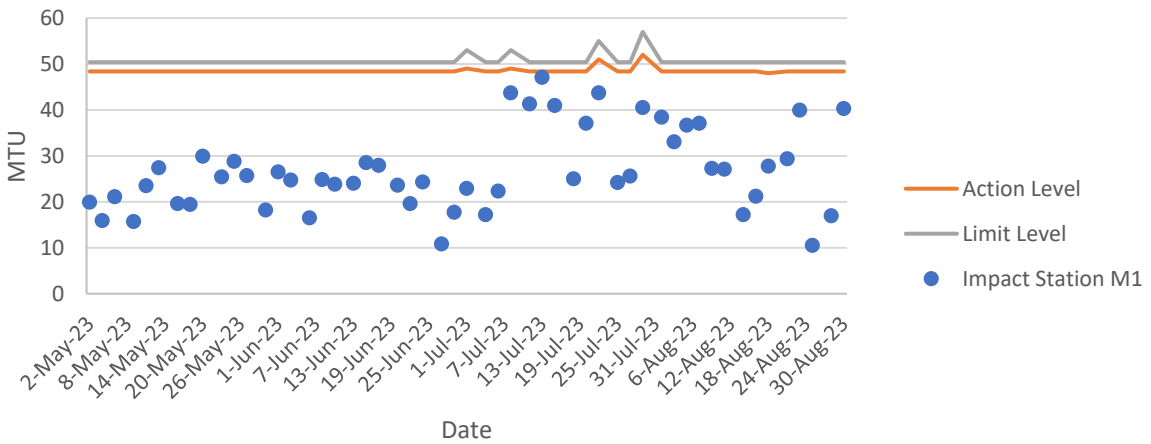
Dissolved Oxygen at Mid-Ebb Tide



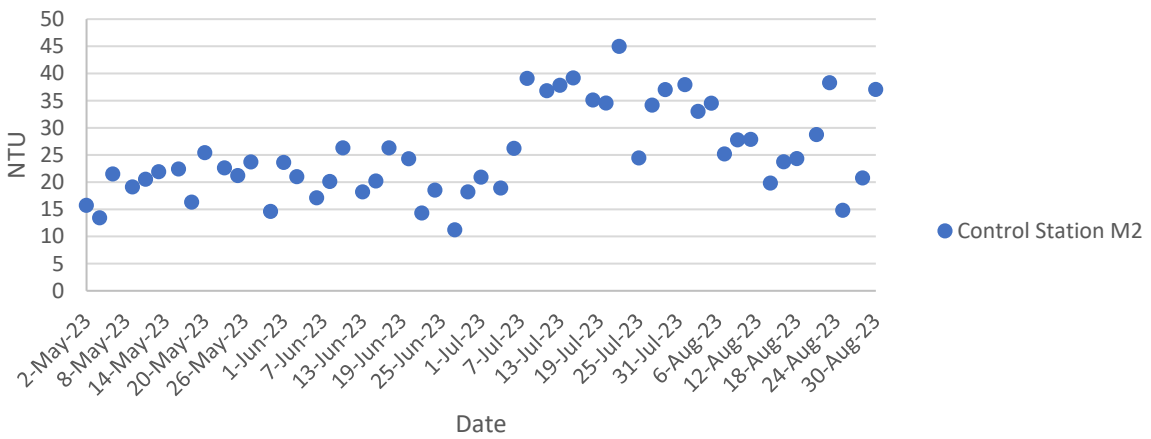
Dissolved Oxygen at Mid-Ebb Tide



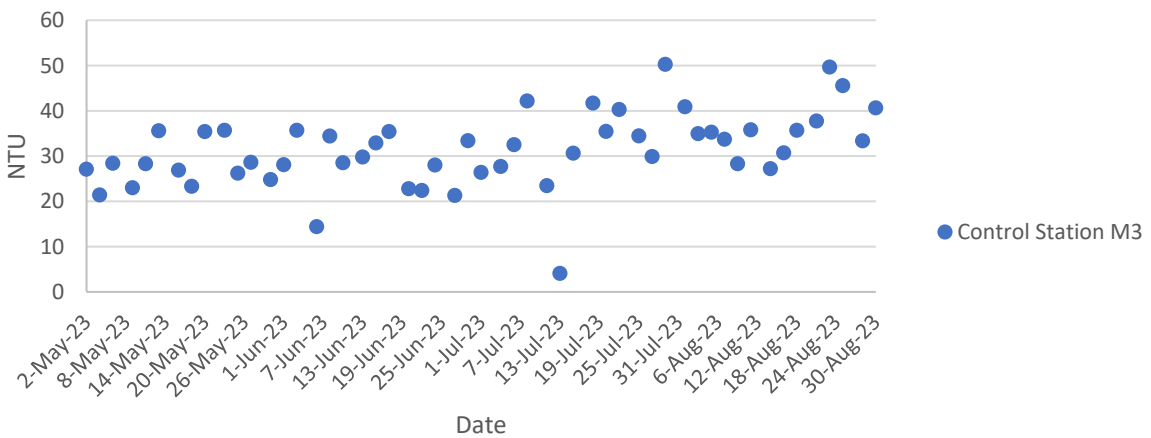
Turbidity at Mid-Ebb Tide



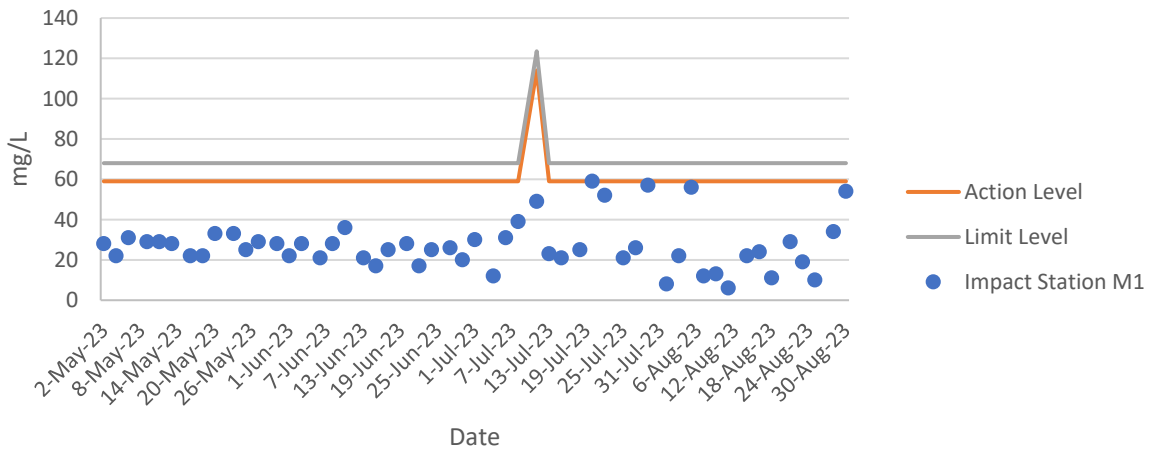
Turbidity at Mid-Ebb Tide



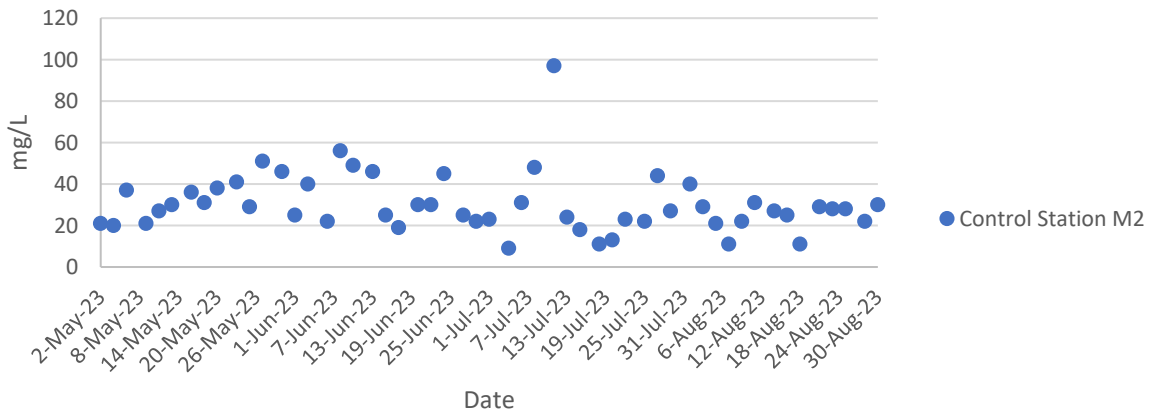
Turbidity at Mid-Ebb Tide



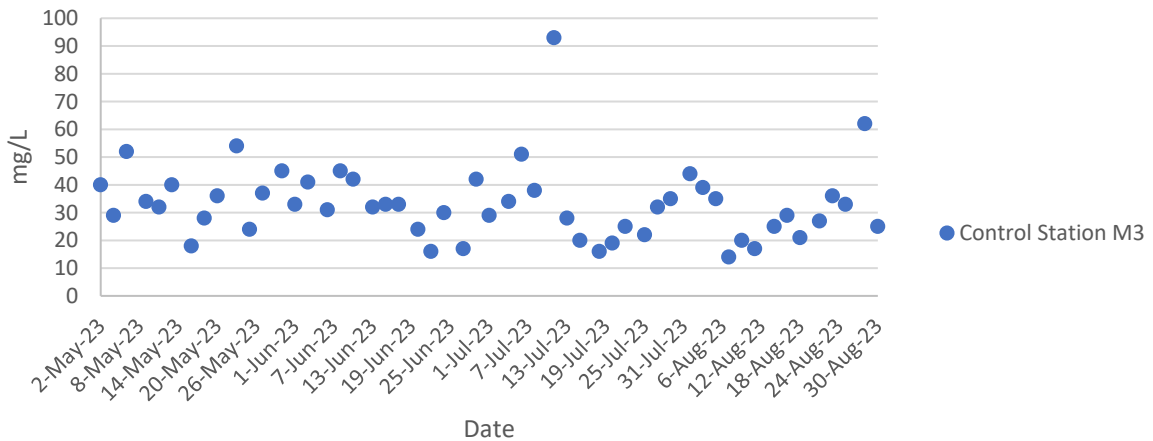
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Ecology Monitoring Results for

Contract No. SPW 02/2023

Environmental Team for Construction of Yuen long

Effluent Polishing Plant Stage 1

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	-	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	5	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	5	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Eurasian Tree Sparrow	<i>Passer montanus</i>	13	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	15	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	5	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Crested Myna	<i>Acridotheres crisatellus</i>	5	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Swinhoe's white- eye	<i>Zosterops simplex</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Plain Prinia	<i>Prinia flaviventris</i>	3	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Japanese tit	<i>Parus minor</i>	15	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Plain Prinia	<i>Prinia flaviventris</i>	4	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Oriental Magpie Robin	<i>Copsychus sauraris</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Common Sandpiper	<i>Actitis hypoleucos</i>	3	Common	PM,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Marsh Sandpiper	<i>Tringa stagnatilis</i>	5	Common	PM,WV	-	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Common Redshank	<i>Tringa totanus</i>	11	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove- NSW	Black-winged Stilt	<i>Himantopus himantopus</i>	4	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	25	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	12	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Crested Myna	<i>Acridotheres crisatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	10	Abundant	PM, SV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	3	Introduced	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Large-billed Crow	<i>Corvus macrorhynchos</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	4	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Masked laughingthrush	<i>Pterorhinus perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Marsh Sandpiper	<i>Tringa stagnatilis</i>	1	Common	PM,WV	-	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	15	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Oriental Magpie Robin	<i>Copsychus sauralis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Black-winged Stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Transect	FLW	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	10	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Large-billed Crow	<i>Corvus macrorhynchos</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Hair-crested Drongo	<i>Dicrurus hottentottus</i>	1	Common	PM, SV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-FLW	Oriental Magpie Robin	<i>Copsychus sauralis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Crested Myna	<i>Acridotheres crisatellus</i>	9	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black Kite	<i>Milvus migran</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	8	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	5	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	Greater Coucal	<i>Centropus sinensis</i>	2	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	Oriental Magpie Robin	<i>Copsychus sauralis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	Eurasian Tree Sparrow	<i>Passer montanus</i>	5	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Egret	<i>Ardea alba</i>	3	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	5	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	7	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Crested Myna	<i>Acridotheres crisatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	5	Introduced	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Common Sandpiper	<i>Actitis hypoleucos</i>		Common	PM,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Swinhoe's white- eye	<i>Zosterops simplex</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Plain Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Masked laughingthrush	<i>Pterorhinus perspicillatus</i>	5	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Eurasian Tree Sparrow	<i>Passer montanus</i>	20	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Spotted Dove	<i>Spilopelia chinensis</i>	6	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Crested Myna	<i>Acridotheres crisatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Marsh Sandpiper	<i>Tringa stagnatilis</i>	1	Common	PM,WV	-	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	1	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Marsh Sandpiper	<i>Tringa stagnatilis</i>	7	Common	PM,WV	-	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Plain Prinia	<i>Prinia flaviventris</i>	8	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Common Redshank	<i>Tringa totanus</i>	7	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Black-winged Stilt	<i>Himantopus himantopus</i>	5	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Little Ringed Plover	<i>Charadrius dubius</i>	1	Common	WV, PM	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	20	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Black-winged Stilt	<i>Himantopus himantopus</i>	4	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	6	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM, WV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	8	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	10	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	3	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	7	Abundant	PM, SV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	8	Introduced	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	20	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Black-winged Stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	6	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	16	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM, SV	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	5	Introduced	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	-	-	-	LC	LC	N	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Large-billed Crow	<i>Corvus macrorhynchos</i>	6	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	9	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	2	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	12	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	35	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (25 August 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	8	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	4	Introduced	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	11	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Swinhoe's white-eye	<i>Zosterops simplex</i>	2	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Black Kite	<i>Milvus migran</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	10	Abundant	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
25/08/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N

Notes:

- All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
- AFCD (2021). Hong Kong Biodiversity Database.
- Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
- Fellowes et al. (2002): GC=Global Concern; LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.
- List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
- Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book
- IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
- Wetland-dependent species (including wetland-dependent species and waterbirds).
- Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (25 August 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Alcedo atthis</i>	1	0.002272727	-6.086774727	-0.013833579	0.084201879
<i>Pycnonotus jocosus</i>	28	0.063636364	-2.754570217	-0.175290832	0.482850905
<i>Spilopelia chinensis</i>	27	0.061363636	-2.790937861	-0.171262096	0.477981868
<i>Acridotheres cristatellus</i>	24	0.054545455	-2.908720897	-0.158657503	0.461490396
<i>Amaurornis phoenicurus</i>	5	0.011363636	-4.477336814	-0.050878827	0.227801647
<i>Egretta garzetta</i>	14	0.031818182	-3.447717397	-0.109700099	0.37821494
<i>Hirundo rustica</i>	11	0.025	-3.688879454	-0.092221986	0.340195791
<i>Cyanopica cyanus</i>	22	0.05	-2.995732274	-0.149786614	0.448720593
<i>Nycticorax nycticorax</i>	2	0.004545455	-5.393627546	-0.024516489	0.13223281
<i>Corvus macrorhynchos</i>	7	0.015909091	-4.140864578	-0.065877391	0.272789355
<i>Ardeola bacchus</i>	38	0.086363636	-2.449188567	-0.211520831	0.518054401
<i>Actitis hypoleucos</i>	2	0.004545455	-5.393627546	-0.024516489	0.13223281
<i>Centropus sinensis</i>	8	0.018181818	-4.007333185	-0.072860603	0.291976714
<i>Ardea alba</i>	5	0.011363636	-4.477336814	-0.050878827	0.227801647
<i>Zosterops simplex</i>	4	0.009090909	-4.700480366	-0.04273164	0.200859233
<i>Gracupica nigricollis</i>	12	0.027272727	-3.601868077	-0.098232766	0.353821463
<i>Prinia flaviventris</i>	20	0.045454545	-3.091042453	-0.14050193	0.434297429
<i>Pterorhinus perspicillatus</i>	5	0.011363636	-4.477336814	-0.050878827	0.227801647
<i>Tringa stagnatilis</i>	8	0.018181818	-4.007333185	-0.072860603	0.291976714
<i>Dicrurus hottentottus</i>	1	0.002272727	-6.086774727	-0.013833579	0.084201879
<i>Pycnonotus sinensis</i>	3	0.006818182	-4.988162438	-0.034010198	0.169648394
<i>Lonchura punctulata</i>	41	0.093181818	-2.37320266	-0.221139339	0.524808467
<i>Milvus migran</i>	2	0.004545455	-5.393627546	-0.024516489	0.13223281
<i>Motacilla alba</i>	13	0.029545455	-3.521825369	-0.104053931	0.366459775
<i>Prinia flaviventris</i>	35	0.079545455	-2.531426665	-0.201363485	0.509736895
<i>Gallinula chloropus</i>	2	0.004545455	-5.393627546	-0.024516489	0.13223281
<i>Copsychus saularis</i>	9	0.020454545	-3.88955015	-0.07955898	0.309448644
<i>Tringa totanus</i>	8	0.018181818	-4.007333185	-0.072860603	0.291976714
<i>Himantopus himantopus</i>	12	0.027272727	-3.601868077	-0.098232766	0.353821463
<i>Passer montanus</i>	70	0.159090909	-1.838279485	-0.292453554	0.537611369
<i>Charadrius dubius</i>	1	0.002272727	-6.086774727	-0.013833579	0.084201879
Total	440	1	-124.6031614	-2.957380926	9.481683338
Richness	31				
SS	9.482				
SQ	8.746				
H	2.957				
S ² H	0.002				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (25 August 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Egretta garzetta</i>	14	0.147368421	-1.914819562	-0.282183935	0.54033132
<i>Ardeola bacchus</i>	38	0.4	-0.916290732	-0.366516293	0.335835482
<i>Centropus sinensis</i>	8	0.084210526	-2.47443535	-0.208373503	0.515606762
<i>Ardea alba</i>	5	0.052631579	-2.944438979	-0.154970473	0.4563011
<i>Tringa stagnatilis</i>	8	0.084210526	-2.47443535	-0.208373503	0.515606762
<i>Milvus migran</i>	2	0.021052632	-3.860729711	-0.08127852	0.313794398
<i>Tringa totanus</i>	8	0.084210526	-2.47443535	-0.208373503	0.515606762
<i>Himantopus himantopus</i>	12	0.126315789	-2.068970242	-0.261343609	0.540712151
Total	95	1	-19.12855528	-1.77141334	3.733794737
Richness	8				
SS	3.734				
SQ	3.138				
H	1.771				
S ² H	0.007				

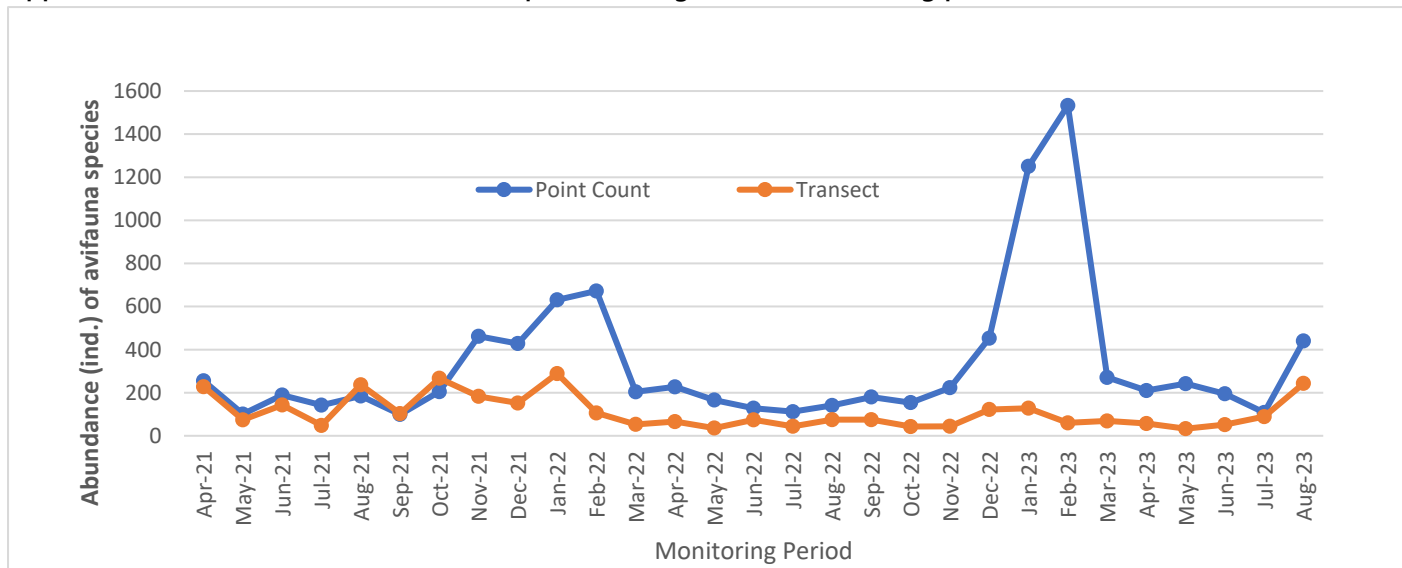
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (25 August 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Pycnonotus jocosus</i>	40	0.164609053	-1.804181989	-0.29698469	0.535814428
<i>Spilopelia chinensis</i>	20	0.082304527	-2.49732917	-0.205541495	0.513304772
<i>Acridotheres cristatellus</i>	9	0.037037037	-3.295836866	-0.122068032	0.40231632
<i>Amaurornis phoenicurus</i>	2	0.008230453	-4.799914263	-0.039505467	0.189622855
<i>Egretta garzetta</i>	7	0.028806584	-3.547151294	-0.102181313	0.362452577
<i>Hirundo rustica</i>	10	0.041152263	-3.19047635	-0.131295323	0.418894623
<i>Cyanopica cyanus</i>	3	0.012345679	-4.394449155	-0.054252459	0.238409671
<i>Nycticorax nycticorax</i>	1	0.004115226	-5.493061443	-0.022605191	0.124171704
<i>Ardea cinerea</i>	1	0.004115226	-5.493061443	-0.022605191	0.124171704
<i>Corvus macrorhynchos</i>	2	0.008230453	-4.799914263	-0.039505467	0.189622855
<i>Ardeola bacchus</i>	18	0.074074074	-2.602689685	-0.192791829	0.501777304
<i>Actitis hypoleucos</i>	5	0.020576132	-3.883623531	-0.079909949	0.310340159
<i>Centropus sinensis</i>	5	0.020576132	-3.883623531	-0.079909949	0.310340159
<i>Ardea alba</i>	3	0.012345679	-4.394449155	-0.054252459	0.238409671
<i>Zosterops simplex</i>	1	0.004115226	-5.493061443	-0.022605191	0.124171704
<i>Gracupica nigricollis</i>	6	0.024691358	-3.701301974	-0.091390172	0.338262625
<i>Prinia flaviventris</i>	5	0.020576132	-3.883623531	-0.079909949	0.310340159
<i>Pterorhinus perspicillatus</i>	3	0.012345679	-4.394449155	-0.054252459	0.238409671
<i>Parus minor</i>	15	0.061728395	-2.785011242	-0.171914274	0.478783186
<i>Tringa stagnatilis</i>	8	0.032921811	-3.413619902	-0.112382548	0.383631303
<i>Motacilla alba</i>	8	0.032921811	-3.413619902	-0.112382548	0.383631303
<i>Prinia flaviventris</i>	24	0.098765432	-2.315007613	-0.228642727	0.529309654
<i>Gallinula chloropus</i>	2	0.008230453	-4.799914263	-0.039505467	0.189622855
<i>Copsychus saularis</i>	3	0.012345679	-4.394449155	-0.054252459	0.238409671
<i>Tringa totanus</i>	13	0.053497942	-2.928112086	-0.156647972	0.458682819
<i>Himantopus himantopus</i>	6	0.024691358	-3.701301974	-0.091390172	0.338262625
<i>Passer montanus</i>	23	0.094650206	-2.357567227	-0.223144223	0.526077508
Total	243	1	-101.6608	-2.881829	8.997243887
Richness	27				
SS	8.997				
SQ	8.305				
H	2.882				
S ² H	0.003				

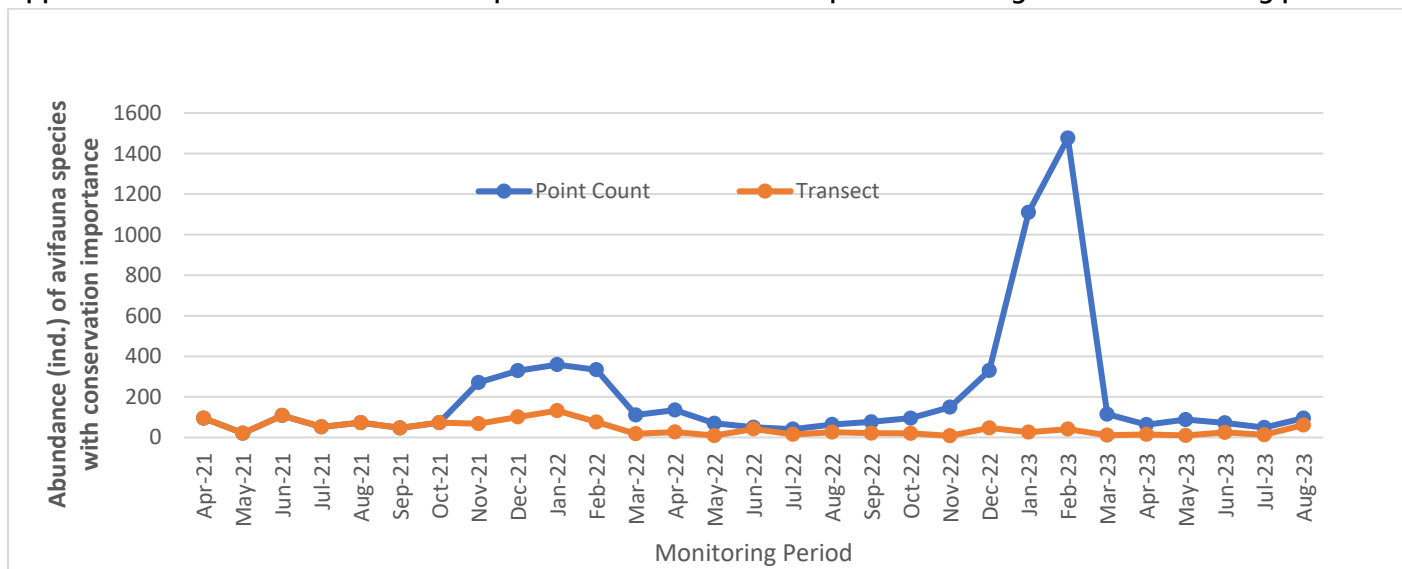
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (25 August 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Egretta garzetta</i>	7	0.114754098	-2.164963715	-0.248438459	0.537860249
<i>Ardea cinerea</i>	1	0.016393443	-4.110873864	-0.067391375	0.277037441
<i>Ardeola bacchus</i>	18	0.295081967	-1.220502106	-0.360148163	0.439561591
<i>Centropus sinensis</i>	5	0.081967213	-2.501435952	-0.205035734	0.512883756
<i>Ardea alba</i>	3	0.049180328	-3.012261576	-0.148144012	0.446248515
<i>Tringa stagnatilis</i>	8	0.131147541	-2.031432322	-0.266417354	0.541208824
Total	61	1	-18.90650844	-1.85314403	3.793131901
Richness	8				
SS	3.793				
SQ	3.434				
H	1.853				
S ² H	0.007				

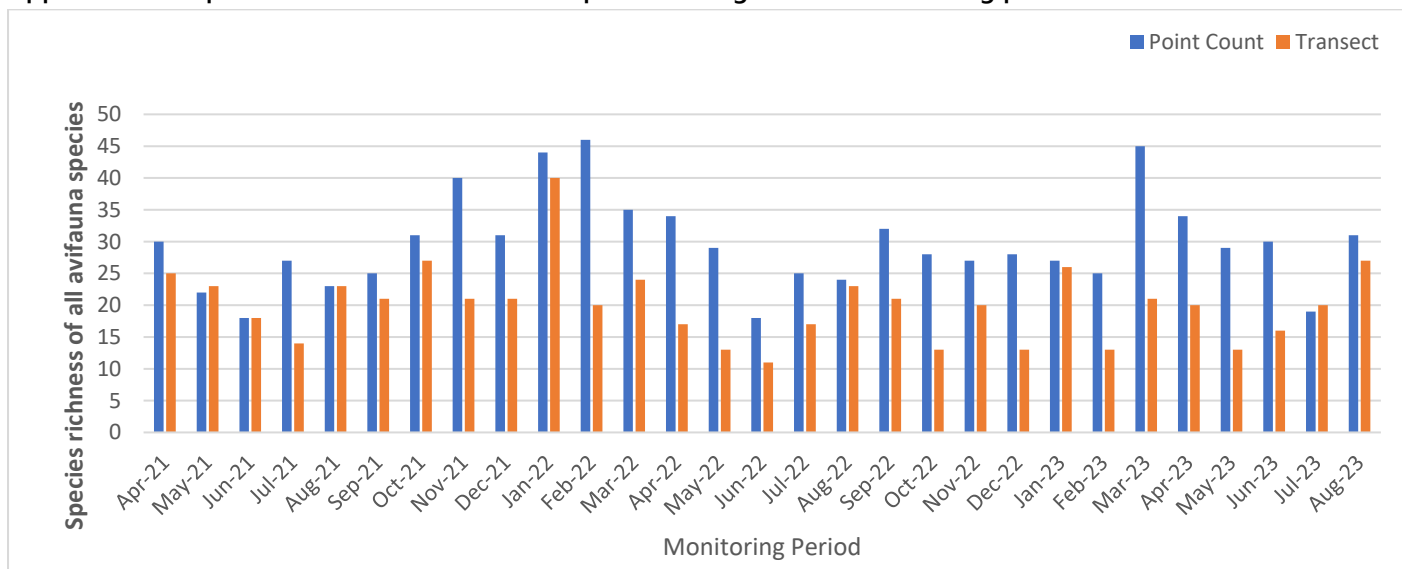
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



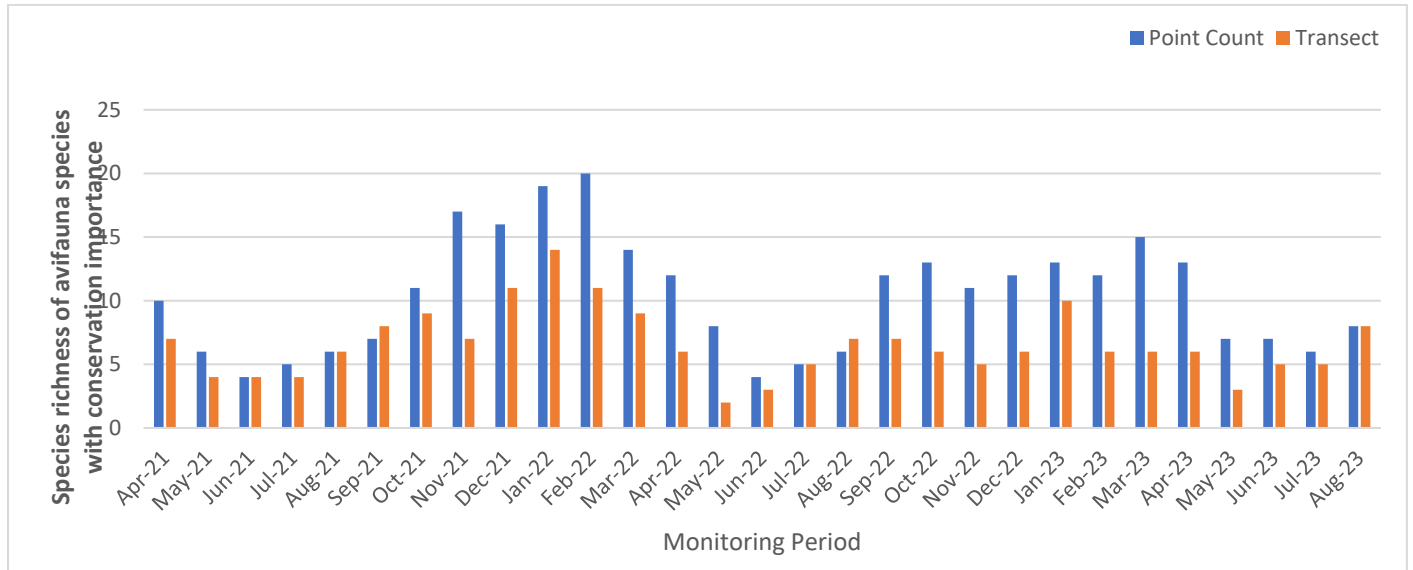
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



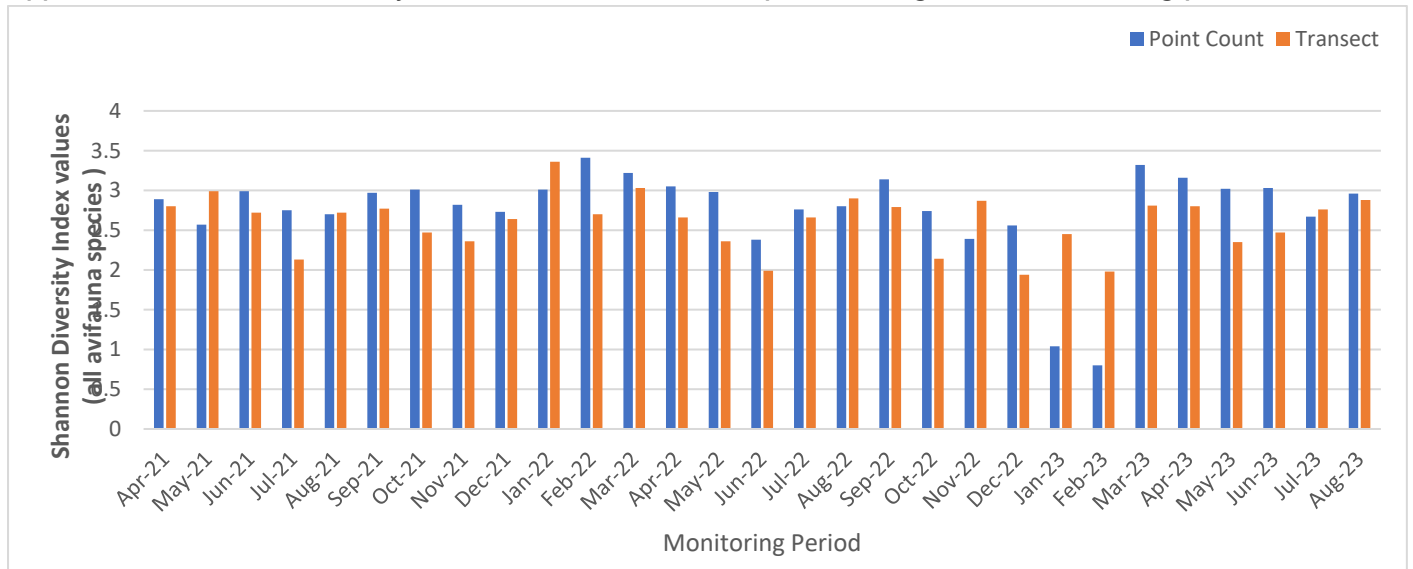
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



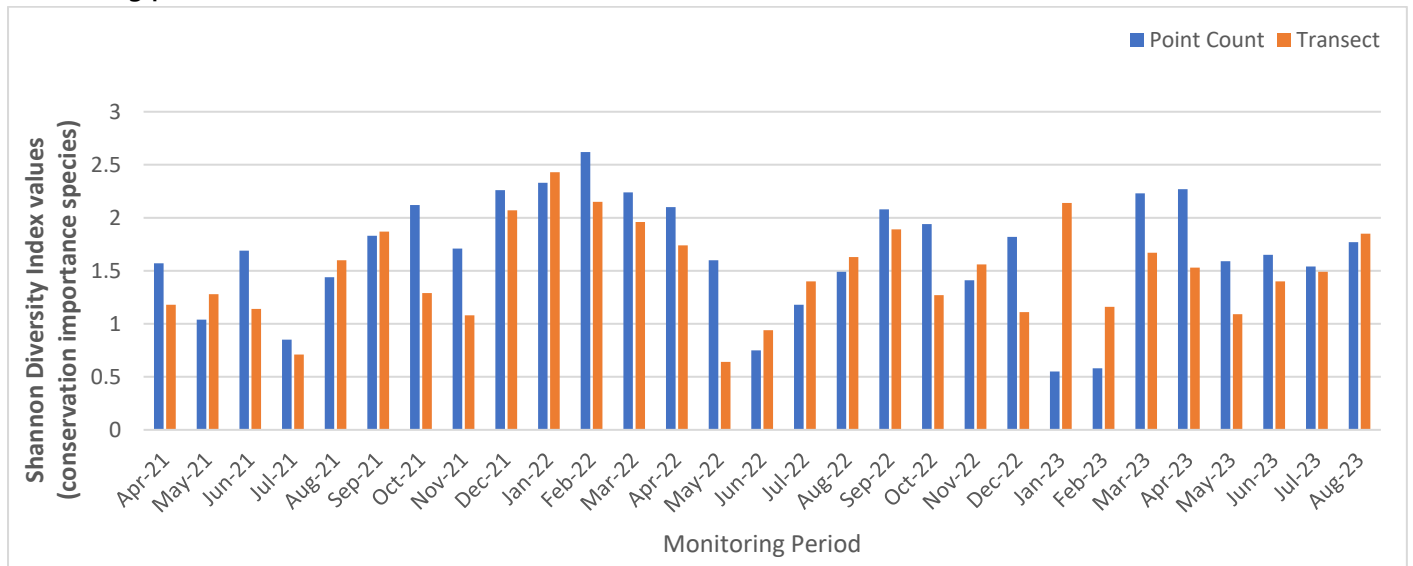
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.5.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.5.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.6. Hutcheson t-test testing method and output

Formula:

$$t = \frac{H_a - H_b}{\sqrt{S_{H_a}^2 + S_{H_b}^2}}$$

Appendix F.6.1 Species diversity of all avifauna species – Point Count Method

Months	August 2016	August 2023
Total	160	440
Richness	26	31
H	2.80	2.96
S ² _H	0.006	0.002
t	1.789	
df	273.398	
Crit	1.969	
p	0.075	
CI	0.155	0.089

Appendix F.6.2 Species diversity of all avifauna species – Transect Walk Method

Months	August 2016	August 2023
Total	140	243
Richness	30	27
H	2.87	2.88
S ² _H	0.008	0.003
t	0.095	
df	244.85	
Crit	1.970	
p	0.924	
CI	0.179	0.110

Appendix F.6.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	August 2016	August 2023
Total	66	95
Richness	7	8
H	1.68	1.77
S^2_H	0.007	0.007
t	0.761	
df	155.776	
Crit	1.975	
p	0.448	
CI	0.167	0.167

Appendix F.6.4 Species diversity of avifauna species with conservation importance – Transect Walk Method

Months	August 2016	August 2023
Total	54	61
Richness	6	8
H	1.26	1.85
S^2_H	0.014	0.007
t	4.071	
df	99.483	
Crit	1.984	
p	0.000	
CI	0.237	0.167