

# Air Quality Monitoring Results

**1-hour TSP Monitoring Result 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	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
5/7/2024	sunny	8:11	46	48	50	291	500
11/7/2024	sunny	8:32	58	59	58		
17/7/2024	sunny	8:45	59	61	59		
23/7/2024	sunny	8:55	44	46	48		
29/7/2024	sunny	8:45	60	62	60		
		Min	44				
		Max	62				
		Average	55				

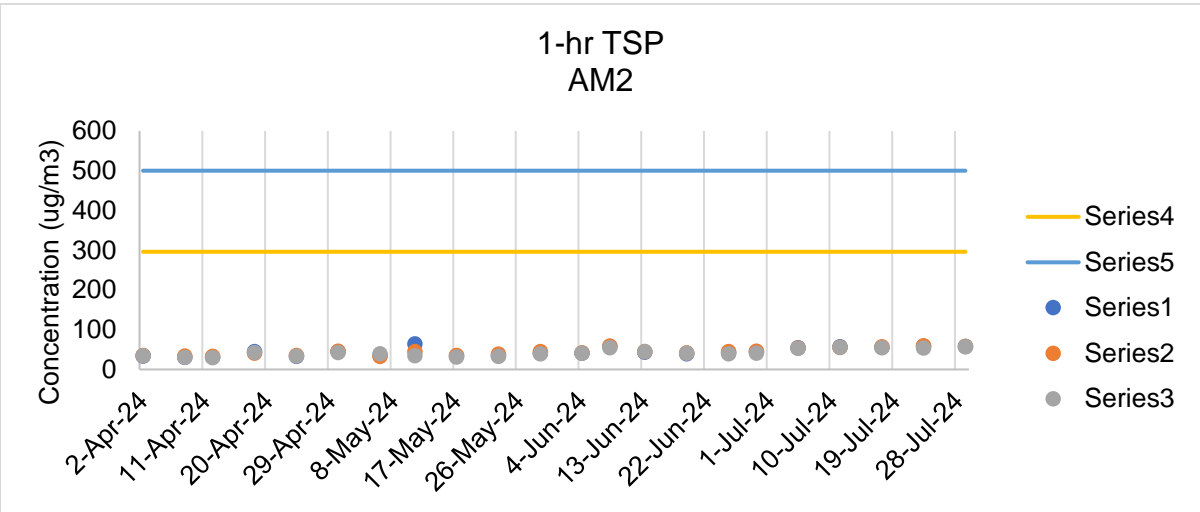
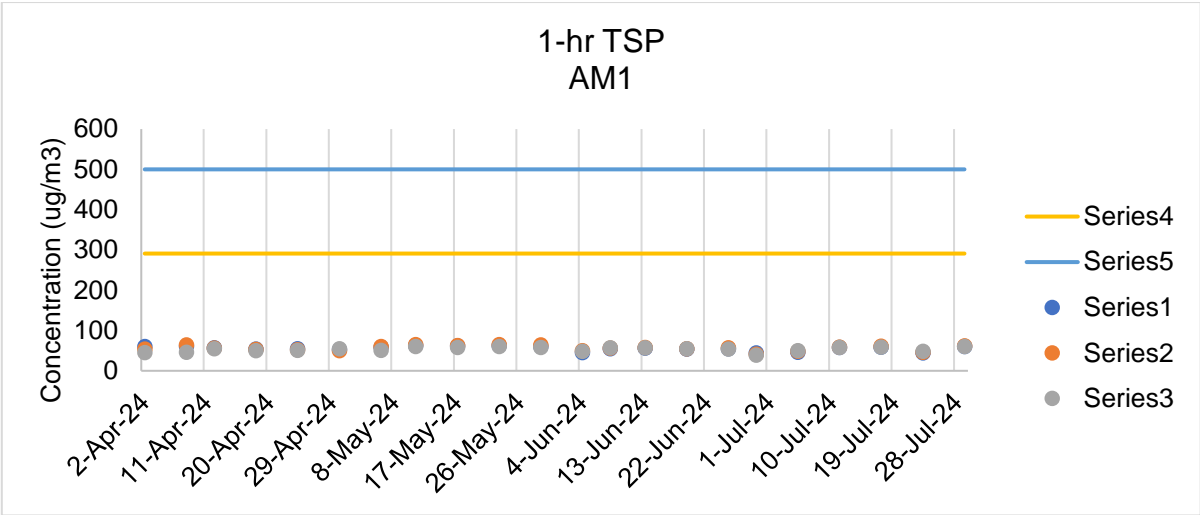
**AM2 - Squatter house at the west of Yuen Long STW**

Date	Weather Condition	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
5/7/2024	sunny	13:00	55	54	53	296	500
11/7/2024	sunny	13:23	57	56	56		
17/7/2024	sunny	13:21	56	57	55		
23/7/2024	sunny	13:11	59	60	54		
29/7/2024	sunny	13:09	58	58	57		
		Min	53				
		Max	60				
		Average	56				

Note:

Underline: Exceedance of Action Level

**Underline and Bold**: Exceedance of Limit Level



**Air Quality Monitoring Results**

# Noise Monitoring Results

**Noise Impact Monitoring Result for  
Contract No. SPW 02/2023  
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1**

**CM1 - Squatter house to the north of YLSTW**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/7/2024	12:08	59.3	62.2	58.2	0.22	sunny	75
11/7/2024	12:32	60.2	63.9	59.5	0.13	sunny	75
17/7/2024	12:21	61.2	62.6	59.8	1.48	sunny	75
23/7/2024	12:15	62.5	64.5	59.9	0.03	sunny	75
29/7/2024	12:11	59.2	60.3	57.5	0.75	sunny	75
	<b>Max</b>	62.5					
	<b>Min</b>	59.2					

**CM2 - Squatter house to the west of YLSTW**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/7/2024	13:01	58.3	61.2	57.5	0.00	sunny	75
11/7/2024	13:24	57.8	60.5	56.2	0.49	sunny	75
17/7/2024	13:22	58.6	62.6	57.5	0.00	sunny	75
23/7/2024	13:12	59.5	61.4	58.4	0.13	sunny	75
29/7/2024	13:10	58.9	62.6	57.2	0.08	sunny	75
	<b>Max</b>	59.5					
	<b>Min</b>	57.8					

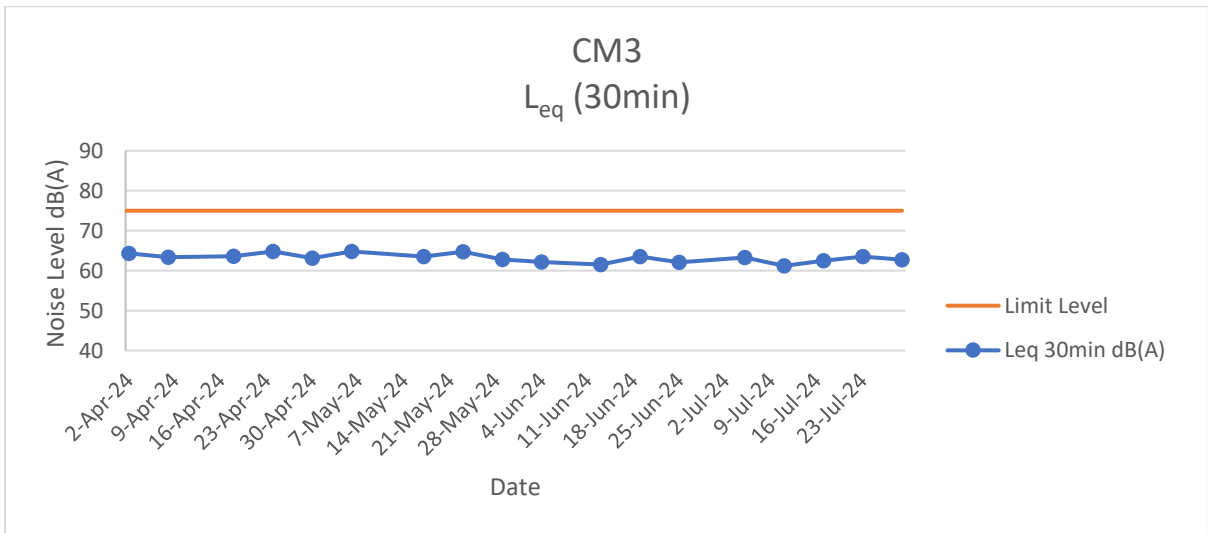
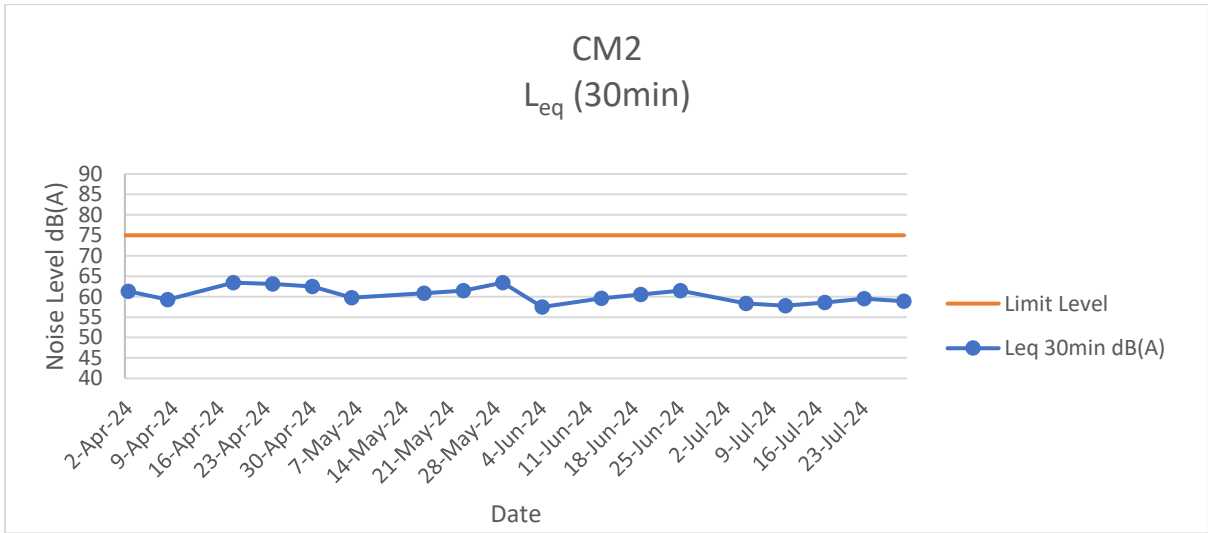
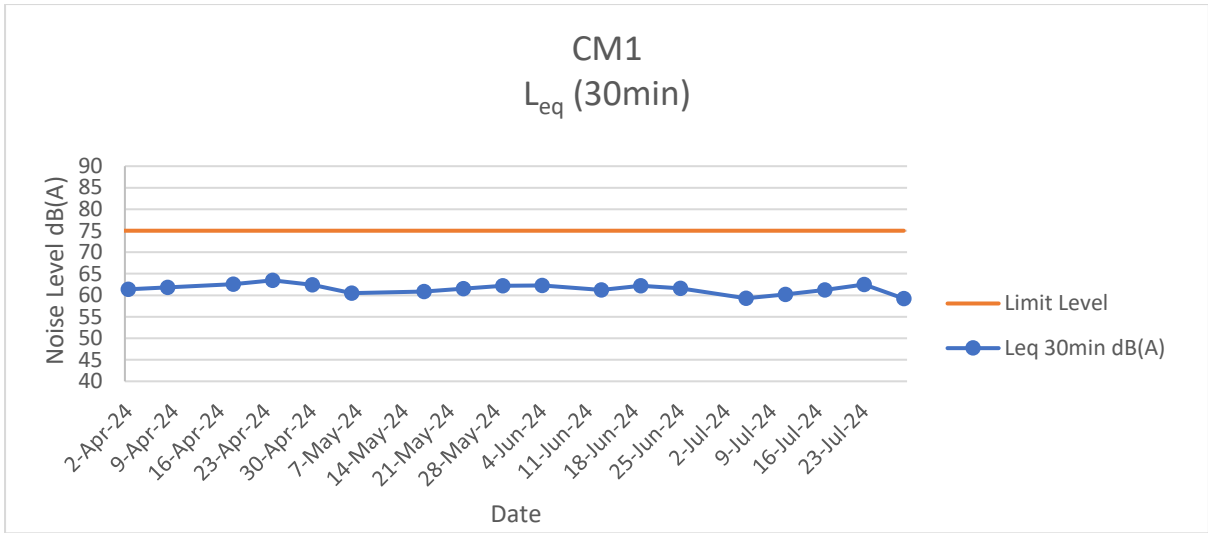
**CM3 - Squatter house to the east of YLSTW**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/7/2024	11:02	63.3	65.2	60.2	0.08	sunny	75
11/7/2024	11:24	61.2	64.2	59.2	0.04	sunny	75
17/7/2024	11:11	62.5	65.2	61.2	0.09	sunny	75
23/7/2024	11:09	63.5	64.6	60.2	0.02	sunny	75
29/7/2024	11:01	62.7	63.5	61.2	0.01	sunny	75
	<b>Max</b>	63.5					
	<b>Min</b>	61.2					

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 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	1/07/2024	Mid-Flood	Sunny	Low	9:21	2.6	M	1.30	1	0.084	176.236	7.18	7.17	3.30	3.27	28.7	28.75	37.5	36.51	2.82	2.75	26.67	26.66	73	71
M1	1/07/2024	Mid-Flood	Sunny	Low	9:21	2.6	M	1.30	2			7.16		3.24		28.8		35.5		2.67		26.65		68	
M2	1/07/2024	Mid-Flood	Sunny	Low	9:56	2.2	M	1.10	1	0.073	172.625	7.16	7.17	3.41	3.40	28.7	28.75	33.6	32.92	2.53	2.48	25.55	25.47	73	66
M2	1/07/2024	Mid-Flood	Sunny	Low	9:56	2.2	M	1.10	2			7.17		3.39		28.8		32.2		2.42		25.39		59	
M3	1/07/2024	Mid-Flood	Sunny	Low	10:03	1.8	M	0.90	1	0.092	181.505	7.2	7.19	3.30	3.34	28.7	28.70	49.1	50.14	3.69	3.77	36.84	36.835	74	72
M3	1/07/2024	Mid-Flood	Sunny	Low	10:03	1.8	M	0.90	2			7.18		3.37		28.7		51.2		3.85		36.83		69	
M1	1/07/2024	Mid-Ebb	Sunny	Low	16:11	2.4	M	1.20	1	0.069	325.181	7.13	7.14	3.32	3.31	28.6	28.65	35.2	34.25	2.65	2.58	24.60	24.38	68	71
M1	1/07/2024	Mid-Ebb	Sunny	Low	16:12	2.4	M	1.20	2			7.14		3.29		28.7		33.3		2.5		24.16		73	
M2	1/07/2024	Mid-Ebb	Sunny	Low	15:44	2	M	1.00	1	0.079	308.86	7.15	7.15	3.48	3.44	28.6	28.60	36.7	36.31	2.76	2.73	25.10	24.905	53	53
M2	1/07/2024	Mid-Ebb	Sunny	Low	15:44	2	M	1.00	2			7.15		3.4		28.6		35.9		2.7		24.71		52	
M3	1/07/2024	Mid-Ebb	Sunny	Low	16:23	1.9	M	0.95	1	0.073	333.591	7.14	7.15	4.06	4.05	28.6	28.65	50.1	50.54	3.77	3.80	34.33	34.47	64	76
M3	1/07/2024	Mid-Ebb	Sunny	Low	16:23	1.9	M	0.95	2			7.15		4.04		28.7		50.9		3.83		34.61		87	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
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	85	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	76.8	83.2



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	3/07/2024	Mid-Flood	Sunny	Low	11:04	2.4	M	1.20	1	0.075	188.127	7.2	7.20	3.03	3.05	27.5	27.55	39.8	39.10	2.99	2.94	21.13	21.215	47	41
M1	3/07/2024	Mid-Flood	Sunny	Low	11:04	2.4	M	1.20	2			7.2		3.07		27.6		38.4		2.89		21.3		35	
M2	3/07/2024	Mid-Flood	Sunny	Low	11:38	2.1	M	1.05	1	0.081	174.59	7.21	7.22	3.16	3.16	27.5	27.50	40.3	40.17	3.03	3.02	22.54	22.64	42	39
M2	3/07/2024	Mid-Flood	Sunny	Low	11:38	2.1	M	1.05	2			7.22		3.15		27.5		40.0		3.01		22.74		35	
M3	3/07/2024	Mid-Flood	Sunny	Low	11:56	1.9	M	0.95	1	0.076	169.609	7.23	7.23	3.46	3.50	27.5	27.50	48.9	48.15	3.68	3.62	30.91	30.925	43	43
M3	3/07/2024	Mid-Flood	Sunny	Low	11:56	1.9	M	0.95	2			7.22		3.53		27.5		47.3		3.56		30.94		42	
M1	3/07/2024	Mid-Ebb	Sunny	Low	16:36	2.5	M	1.25	1	0.071	324.137	7.2	7.19	3.12	3.08	27.6	27.60	38.3	38.44	2.88	2.89	18.81	18.77	52	53
M1	3/07/2024	Mid-Ebb	Sunny	Low	16:36	2.5	M	1.25	2			7.18		3.03		27.6		38.6		2.9		18.73		53	
M2	3/07/2024	Mid-Ebb	Sunny	Low	16:05	2.3	M	1.15	1	0.075	332.569	7.19	7.20	3.18	3.16	27.6	27.60	41.4	42.09	3.11	3.17	19.88	19.875	67	60
M2	3/07/2024	Mid-Ebb	Sunny	Low	16:05	2.3	M	1.15	2			7.21		3.13		27.6		42.8		3.22		19.87		52	
M3	3/07/2024	Mid-Ebb	Sunny	Low	16:47	2	M	1.00	1	0.061	310.82	7.23	7.23	3.38	3.37	27.6	27.65	49.9	49.08	3.75	3.69	31.88	31.985	40	41
M3	3/07/2024	Mid-Ebb	Sunny	Low	16:47	2	M	1.00	2			7.22		3.36		27.7		48.3		3.63		32.09		41	

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.
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	60	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	5/07/2024	Mid-Flood	Sunny	Low	12:44	2.2	M	1.10	1	0.087	165.997	7.13	7.12	2.49	2.51	27.4	27.40	34.3	34.18	2.58	2.57	26.92	27.02	41	48
M1	5/07/2024	Mid-Flood	Sunny	Low	12:44	2.2	M	1.10	2			7.11		2.52		27.4		34.0		2.56		27.12		55	
M2	5/07/2024	Mid-Flood	Sunny	Low	13:21	1.8	M	0.90	1	0.086	172.834	7.2	7.21	2.55	2.51	27.4	27.40	37.2	37.37	2.8	2.81	27.85	28.005	89	75
M2	5/07/2024	Mid-Flood	Sunny	Low	13:21	1.8	M	0.90	2			7.22		2.47		27.4		37.5		2.82		28.16		61	
M3	5/07/2024	Mid-Flood	Sunny	Low	13:33	1.9	M	0.95	1	0.089	161.48	7.17	7.17	2.89	2.91	27.4	27.45	46.8	46.88	3.52	3.53	31.90	31.965	44	45
M3	5/07/2024	Mid-Flood	Sunny	Low	13:33	1.9	M	0.95	2			7.16		2.93		27.5		46.9		3.53		32.03		46	
M1	5/07/2024	Mid-Ebb	Sunny	Low	18:36	2.3	M	1.15	1	0.079	309.74	7.16	7.15	2.45	2.42	27.6	27.65	34.3	34.45	2.58	2.59	25.45	25.385	67	67
M1	5/07/2024	Mid-Ebb	Sunny	Low	18:36	2.3	M	1.15	2			7.14		2.39		27.7		34.6		2.6		25.32		66	
M2	5/07/2024	Mid-Ebb	Sunny	Low	18:08	2.1	M	1.05	1	0.061	332.685	7.18	7.17	2.56	2.52	27.6	27.65	34.0	33.05	2.56	2.49	26.33	26.425	95	102
M2	5/07/2024	Mid-Ebb	Sunny	Low	18:08	2.1	M	1.05	2			7.16		2.48		27.7		32.1		2.41		26.52		108	
M3	5/07/2024	Mid-Ebb	Sunny	Low	18:45	2	M	1.00	1	0.067	323.355	7.16	7.17	3.08	3.08	27.6	27.60	49.6	49.81	3.73	3.75	32.21	32.01	65	59
M3	5/07/2024	Mid-Ebb	Sunny	Low	18:45	2	M	1.00	2			7.17		3.07		27.6		50.0		3.76		31.81		52	

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.
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	96	104

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	8/07/2024	Mid-Flood	Sunny	Low	14:54	2.6	M	1.30	1	0.09	177.119	7.08	7.09	3.48	3.46	28.1	28.10	36.7	37.11	2.76	2.79	20.15	20.26	29	28
M1	8/07/2024	Mid-Flood	Sunny	Low	14:54	2.6	M	1.30	2			7.1		3.43		28.1		37.5		2.82		20.37		27	
M2	8/07/2024	Mid-Flood	Sunny	Low	15:28	2.3	M	1.15	1	0.074	166.211	7.05	7.04	3.60	3.63	28.1	28.15	39.1	39.77	2.94	2.99	18.77	18.88	11	12
M2	8/07/2024	Mid-Flood	Sunny	Low	15:28	2.3	M	1.15	2			7.03		3.66		28.2		40.4		3.04		18.99		13	
M3	8/07/2024	Mid-Flood	Sunny	Low	15:39	2	M	1.00	1	0.073	175.919	7.12	7.12	3.99	4.02	28.1	28.15	53.9	54.26	4.05	4.08	29.12	29.13	17	16
M3	8/07/2024	Mid-Flood	Sunny	Low	15:39	2	M	1.00	2			7.12		4.04		28.2		54.7		4.11		29.14		15	
M1	8/07/2024	Mid-Ebb	Sunny	Low	10:05	2.4	M	1.20	1	0.065	321.039	7.09	7.09	2.99	2.97	28.3	28.30	40.8	40.10	3.07	3.02	18.75	18.765	12	12
M1	8/07/2024	Mid-Ebb	Sunny	Low	10:05	2.4	M	1.20	2			7.09		2.95		28.3		39.4		2.96		18.78		12	
M2	8/07/2024	Mid-Ebb	Sunny	Low	9:33	2.1	M	1.05	1	0.071	316.962	7.11	7.12	3.21	3.17	28.3	28.30	41.5	41.43	3.12	3.12	18.99	18.945	8	7
M2	8/07/2024	Mid-Ebb	Sunny	Low	9:33	2.1	M	1.05	2			7.13		3.12		28.3		41.4		3.11		18.9		5	
M3	8/07/2024	Mid-Ebb	Sunny	Low	10:12	1.9	M	0.95	1	0.08	315.368	7.09	7.09	4.05	4.08	28.3	28.35	55.3	55.06	4.16	4.14	30.54	30.625	5	7
M3	8/07/2024	Mid-Ebb	Sunny	Low	10:12	1.9	M	0.95	2			7.09		4.1		28.4		54.8		4.12		30.71		8	

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.
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  
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	10/07/2024	Mid-Flood	Sunny	Low	16:03	2.5	M	1.25	1	0.082	161.351	7.18	7.19	3.43	3.40	29.3	29.35	41.0	40.83	3.08	3.07	16.11	16.075	29	28
M1	10/07/2024	Mid-Flood	Sunny	Low	16:03	2.5	M	1.25	2			7.19		3.37		29.4		40.7		3.06		16.04		27	
M2	10/07/2024	Mid-Flood	Sunny	Low	16:33	2.1	M	1.05	1	0.082	173.731	7.21	7.22	3.60	3.62	29.3	29.35	42.2	42.29	3.17	3.18	17.30	17.285	39	34
M2	10/07/2024	Mid-Flood	Sunny	Low	16:33	2.1	M	1.05	2			7.23		3.63		29.4		42.4		3.19		17.27		29	
M3	10/07/2024	Mid-Flood	Sunny	Low	16:45	2	M	1.00	1	0.094	162.539	7.19	7.18	4.55	4.55	29.3	29.35	51.3	50.34	3.86	3.79	25.73	25.61	25	29
M3	10/07/2024	Mid-Flood	Sunny	Low	16:45	2	M	1.00	2			7.17		4.54		29.4		49.3		3.71		25.49		32	
M1	10/07/2024	Mid-Ebb	Sunny	Low	9:13	2.3	M	1.15	1	0.071	310.737	7.17	7.16	2.96	2.97	29.5	29.55	39.6	40.37	2.98	3.04	12.82	12.66	26	27
M1	10/07/2024	Mid-Ebb	Sunny	Low	9:13	2.3	M	1.15	2			7.15		2.98		29.6		41.1		3.09		12.5		28	
M2	10/07/2024	Mid-Ebb	Sunny	Low	8:44	2	M	1.00	1	0.076	330.112	7.15	7.15	3.34	3.34	29.5	29.50	41.6	41.30	3.13	3.11	13.58	13.48	21	24
M2	10/07/2024	Mid-Ebb	Sunny	Low	8:45	2	M	1.00	2			7.15		3.33		29.5		41.0		3.08		13.38		26	
M3	10/07/2024	Mid-Ebb	Sunny	Low	9:20	1.9	M	0.95	1	0.058	312.605	7.18	7.18	4.58	4.61	29.5	29.50	54.7	54.00	4.11	4.06	26.92	27.005	32	32
M3	10/07/2024	Mid-Ebb	Sunny	Low	9:21	1.9	M	0.95	2			7.17		4.64		29.5		53.3		4.01		27.09		31	

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 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	12/07/2024	Mid-Flood	Cloudy	Low	17:05	2.6	M	1.30	1	0.089	190.25	7.14	7.15	4.08	4.07	28.8	28.80	38.3	37.77	2.88	2.84	21.67	21.48	24	25
M1	12/07/2024	Mid-Flood	Cloudy	Low	17:06	2.6	M	1.30	2			7.16		4.05		28.8		37.2		2.8		21.29		26	
M2	12/07/2024	Mid-Flood	Cloudy	Low	17:36	2.2	M	1.10	1	0.087	169.963	7.18	7.19	4.19	4.15	28.8	28.85	39.1	38.90	2.94	2.93	22.77	22.875	23	23
M2	12/07/2024	Mid-Flood	Cloudy	Low	17:36	2.2	M	1.10	2			7.2		4.11		28.9		38.7		2.91		22.98		22	
M3	12/07/2024	Mid-Flood	Cloudy	Low	17:49	2.1	M	1.05	1	0.095	183.773	7.18	7.19	5.34	5.32	28.8	28.80	48.0	48.55	3.61	3.65	32.45	32.495	26	24
M3	12/07/2024	Mid-Flood	Cloudy	Low	17:49	2.1	M	1.05	2			7.2		5.29		28.8		49.1		3.69		32.54		22	
M1	12/07/2024	Mid-Ebb	Cloudy	Low	11:01	2.4	M	1.20	1	0.068	316.892	7.15	7.16	3.66	3.67	29.0	29.05	35.6	35.05	2.68	2.64	21.88	22.035	16	21
M1	12/07/2024	Mid-Ebb	Cloudy	Low	11:01	2.4	M	1.20	2			7.17		3.68		29.1		34.4		2.59		22.19		25	
M2	12/07/2024	Mid-Ebb	Cloudy	Low	10:25	2.1	M	1.05	1	0.075	306.289	7.12	7.12	3.77	3.73	29.0	29.00	36.3	36.77	2.73	2.77	22.93	22.825	19	25
M2	12/07/2024	Mid-Ebb	Cloudy	Low	10:25	2.1	M	1.05	2			7.11		3.69		29.0		37.2		2.8		22.72		30	
M3	12/07/2024	Mid-Ebb	Cloudy	Low	11:13	2	M	1.00	1	0.067	306.672	7.12	7.12	4.41	4.40	29.0	29.05	47.9	47.48	3.6	3.57	32.79	32.695	20	20
M3	12/07/2024	Mid-Ebb	Cloudy	Low	11:13	2	M	1.00	2			7.11		4.38		29.1		47.1		3.54		32.6		19	

Remark

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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 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	15/07/2024	Mid-Flood	Cloudy	Low	10:19	2.7	M	1.35	1	0.084	177.913	7.18	7.18	2.46	2.49	29.1	29.15	37.0	37.71	2.78	2.84	21.64	21.48	28	27
M1	15/07/2024	Mid-Flood	Cloudy	Low	10:20	2.7	M	1.35	2			7.18		2.52		29.2		38.4		2.89		21.32		25	
M2	15/07/2024	Mid-Flood	Cloudy	Low	10:51	2.4	M	1.20	1	0.073	185.678	7.2	7.20	2.29	2.25	29.1	29.15	37.9	36.91	2.85	2.78	22.53	22.555	30	29
M2	15/07/2024	Mid-Flood	Cloudy	Low	10:53	2.4	M	1.20	2			7.2		2.21		29.2		35.9		2.7		22.58		28	
M3	15/07/2024	Mid-Flood	Cloudy	Low	11:08	2.1	M	1.05	1	0.09	181.346	7.16	7.15	2.83	2.79	29.1	29.15	51.6	51.87	3.88	3.90	31.61	31.625	24	25
M3	15/07/2024	Mid-Flood	Cloudy	Low	11:08	2.1	M	1.05	2			7.14		2.75		29.2		52.1		3.92		31.64		25	
M1	15/07/2024	Mid-Ebb	Cloudy	Low	14:08	2.4	M	1.20	1	0.081	325.035	7.11	7.11	2.32	2.29	29.3	29.35	39.0	38.70	2.93	2.91	20.77	20.75	27	28
M1	15/07/2024	Mid-Ebb	Cloudy	Low	14:08	2.4	M	1.20	2			7.11		2.26		29.4		38.4		2.89		20.73		29	
M2	15/07/2024	Mid-Ebb	Cloudy	Low	13:45	2.1	M	1.05	1	0.059	316.635	7.12	7.13	2.31	2.30	29.3	29.30	38.0	38.44	2.86	2.89	21.18	21.015	30	29
M2	15/07/2024	Mid-Ebb	Cloudy	Low	13:46	2.1	M	1.05	2			7.13		2.29		29.3		38.8		2.92		20.85		28	
M3	15/07/2024	Mid-Ebb	Cloudy	Low	14:21	2	M	1.00	1	0.061	314.478	7.11	7.11	2.90	2.92	29.3	29.35	52.3	51.60	3.93	3.88	32.58	32.4	26	29
M3	15/07/2024	Mid-Ebb	Cloudy	Low	14:22	2	M	1.00	2			7.11		2.94		29.4		50.9		3.83		32.22		31	

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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	17/07/2024	Mid-Flood	Cloudy	Low	10:03	2.6	M	1.30	1	0.085	177.333	7.09	7.10	2.61	2.62	28.5	28.50	35.4	35.64	2.66	2.68	15.43	15.55	32	31
M1	17/07/2024	Mid-Flood	Cloudy	Low	10:03	2.6	M	1.30	2			7.1		2.62		28.5		35.9		2.7		15.67		30	
M2	17/07/2024	Mid-Flood	Cloudy	Low	10:41	2.5	M	1.25	1	0.087	166.418	7.08	7.08	2.65	2.63	28.5	28.50	37.4	38.10	2.81	2.87	16.16	16.2	7	8
M2	17/07/2024	Mid-Flood	Cloudy	Low	10:41	2.5	M	1.25	2			7.07		2.6		28.5		38.8		2.92		16.24		8	
M3	17/07/2024	Mid-Flood	Cloudy	Low	10:55	2.2	M	1.10	1	0.091	176.292	7.11	7.11	3.07	3.09	28.5	28.55	51.6	50.74	3.88	3.82	30.80	30.87	13	12
M3	17/07/2024	Mid-Flood	Cloudy	Low	10:55	2.2	M	1.10	2			7.11		3.11		28.6		49.9		3.75		30.94		10	
M1	17/07/2024	Mid-Ebb	Cloudy	Low	18:03	2.4	M	1.20	1	0.077	302.534	7.09	7.09	2.73	2.71	28.4	28.40	35.6	35.11	2.68	2.64	16.53	16.475	9	9
M1	17/07/2024	Mid-Ebb	Cloudy	Low	18:03	2.4	M	1.20	2			7.08		2.68		28.4		34.6		2.6		16.42		9	
M2	17/07/2024	Mid-Ebb	Cloudy	Low	17:37	2.1	M	1.05	1	0.072	306.088	7.07	7.07	2.78	2.81	28.4	28.40	36.7	36.11	2.76	2.72	17.18	17.355	8	9
M2	17/07/2024	Mid-Ebb	Cloudy	Low	17:38	2.1	M	1.05	2			7.06		2.83		28.4		35.5		2.67		17.53		9	
M3	17/07/2024	Mid-Ebb	Cloudy	Low	18:11	2.2	M	1.10	1	0.062	341.5	7.13	7.12	3.12	3.13	28.4	28.45	52.8	52.80	3.97	3.97	31.12	31.24	14	13
M3	17/07/2024	Mid-Ebb	Cloudy	Low	18:11	2.2	M	1.10	2			7.11		3.13		28.5		52.8		3.97		31.36		12	

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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	19/07/2024	Mid-Flood	Cloudy	Low	11:50	2.5	M	1.25	1	0.087	166.77	7.2	7.21	2.69	2.69	28.1	28.10	37.9	38.57	2.85	2.90	18.88	18.815	51	44
M1	19/07/2024	Mid-Flood	Cloudy	Low	11:51	2.5	M	1.25	2			7.22		2.68		28.1		39.2		2.95		18.75		36	
M2	19/07/2024	Mid-Flood	Cloudy	Low	12:28	2.3	M	1.15	1	0.075	164.794	7.2	7.20	2.77	2.73	28.1	28.10	36.3	36.64	2.73	2.76	17.65	17.68	34	34
M2	19/07/2024	Mid-Flood	Cloudy	Low	12:30	2.3	M	1.15	2			7.2		2.69		28.1		37.0		2.78		17.71		33	
M3	19/07/2024	Mid-Flood	Cloudy	Low	12:45	2.1	M	1.05	1	0.081	188.182	7.13	7.14	3.05	3.02	28.1	28.15	46.7	47.02	3.51	3.54	30.29	30.465	28	27
M3	19/07/2024	Mid-Flood	Cloudy	Low	12:46	2.1	M	1.05	2			7.14		2.99		28.2		47.3		3.56		30.64		25	
M1	19/07/2024	Mid-Ebb	Cloudy	Low	17:48	2.4	M	1.20	1	0.066	328.163	7.11	7.11	2.78	2.76	28.9	28.90	33.0	32.85	2.48	2.47	16.88	16.935	27	31
M1	19/07/2024	Mid-Ebb	Cloudy	Low	17:48	2.4	M	1.20	2			7.1		2.73		28.9		32.7		2.46		16.99		35	
M2	19/07/2024	Mid-Ebb	Cloudy	Low	17:14	2.2	M	1.10	1	0.071	340.443	7.13	7.13	2.85	2.83	28.9	28.90	31.8	31.39	2.39	2.36	15.43	15.23	33	33
M2	19/07/2024	Mid-Ebb	Cloudy	Low	17:14	2.2	M	1.10	2			7.12		2.8		28.9		31.0		2.33		15.03		33	
M3	19/07/2024	Mid-Ebb	Cloudy	Low	17:53	2	M	1.00	1	0.072	344.619	7.15	7.14	3.11	3.15	28.9	28.95	48.7	47.75	3.66	3.59	29.12	29.03	33	39
M3	19/07/2024	Mid-Ebb	Cloudy	Low	17:53	2	M	1.00	2			7.13		3.19		29.0		46.8		3.52		28.94		45	

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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	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	22/07/2024	Mid-Flood	Cloudy	Low	14:08	2.7	M	1.35	1	0.08	183.858	7.05	7.05	2.68	2.66	28.8	28.80	35.1	35.51	2.64	2.67	19.99	20.035	76	73
M1	22/07/2024	Mid-Flood	Cloudy	Low	14:08	2.7	M	1.35	2			7.05		2.63		28.8		35.9		2.7		20.08		69	
M2	22/07/2024	Mid-Flood	Cloudy	Low	14:45	2.4	M	1.20	1	0.09	177.32	7.06	7.07	2.69	2.69	28.8	28.85	36.8	36.84	2.77	2.77	20.50	20.345	71	78
M2	22/07/2024	Mid-Flood	Cloudy	Low	14:45	2.4	M	1.20	2			7.08		2.69		28.9		36.8		2.77		20.19		84	
M3	22/07/2024	Mid-Flood	Cloudy	Low	14:55	2.1	M	1.05	1	0.089	175.924	7.08	7.09	3.44	3.49	28.8	28.80	46.3	45.29	3.48	3.41	31.45	31.475	76	84
M3	22/07/2024	Mid-Flood	Cloudy	Low	14:55	2.1	M	1.05	2			7.1		3.53		28.8		44.3		3.33		31.5		92	
M1	22/07/2024	Mid-Ebb	Cloudy	Low	9:26	2.5	M	1.25	1	0.076	332.486	7.04	7.04	2.77	2.77	29.0	29.00	37.0	36.91	2.78	2.78	21.50	21.64	81	79
M1	22/07/2024	Mid-Ebb	Cloudy	Low	9:26	2.5	M	1.25	2			7.04		2.77		29.0		36.8		2.77		21.78		77	
M2	22/07/2024	Mid-Ebb	Cloudy	Low	8:50	2.2	M	1.10	1	0.069	343.503	7.05	7.05	2.88	2.88	29.0	29.00	34.4	35.18	2.59	2.65	22.24	22.235	110	110
M2	22/07/2024	Mid-Ebb	Cloudy	Low	8:51	2.2	M	1.10	2			7.04		2.87		29.0		35.9		2.7		22.23		109	
M3	22/07/2024	Mid-Ebb	Cloudy	Low	9:35	2.1	M	1.05	1	0.075	338.072	7.09	7.08	3.15	3.15	29.0	29.00	48.8	48.01	3.67	3.61	30.63	30.44	59	61
M3	22/07/2024	Mid-Ebb	Cloudy	Low	9:35	2.1	M	1.05	2			7.07		3.14		29.0		47.2		3.55		30.25		62	

Remark

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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	87	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	102	110.5

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	24/07/2024	Mid-Flood	Cloudy	Low	15:31	2.5	M	1.25	1	0.081	189.281	7.12	7.13	3.45	3.42	28.1	28.10	37.4	36.44	2.81	2.74	16.65	16.695	23	25
M1	24/07/2024	Mid-Flood	Cloudy	Low	15:31	2.5	M	1.25	2			7.13		3.38		28.1		35.5		2.67		16.74		27	
M2	24/07/2024	Mid-Flood	Cloudy	Low	16:04	2.1	M	1.05	1	0.093	186.054	7.14	7.14	3.55	3.54	28.1	28.15	38.8	38.30	2.92	2.88	17.25	17.06	27	27
M2	24/07/2024	Mid-Flood	Cloudy	Low	16:04	2.1	M	1.05	2			7.13		3.53		28.2		37.8		2.84		16.87		27	
M3	24/07/2024	Mid-Flood	Cloudy	Low	16:18	1.9	M	0.95	1	0.093	174.879	7.17	7.18	4.17	4.18	28.1	28.15	48.7	48.01	3.66	3.61	29.55	29.425	23	23
M3	24/07/2024	Mid-Flood	Cloudy	Low	16:18	1.9	M	0.95	2			7.19		4.18		28.2		47.3		3.56		29.3		23	
M1	24/07/2024	Mid-Ebb	Cloudy	Low	9:03	2.4	M	1.20	1	0.058	329.982	7.11	7.12	3.08	3.07	28.4	28.45	38.2	37.64	2.87	2.83	14.58	14.435	24	25
M1	24/07/2024	Mid-Ebb	Cloudy	Low	9:03	2.4	M	1.20	2			7.12		3.06		28.5		37.1		2.79		14.29		26	
M2	24/07/2024	Mid-Ebb	Cloudy	Low	8:35	2.1	M	1.05	1	0.058	317.781	7.13	7.12	3.32	3.36	28.4	28.40	40.3	40.03	3.03	3.01	16.68	16.8	30	32
M2	24/07/2024	Mid-Ebb	Cloudy	Low	8:35	2.1	M	1.05	2			7.11		3.39		28.4		39.8		2.99		16.92		34	
M3	24/07/2024	Mid-Ebb	Cloudy	Low	9:18	2	M	1.00	1	0.076	301.537	7.2	7.21	4.51	4.53	28.4	28.45	50.7	50.54	3.81	3.80	28.69	28.64	29	30
M3	24/07/2024	Mid-Ebb	Cloudy	Low	9:18	2	M	1.00	2			7.21		4.55		28.5		50.4		3.79		28.59		30	

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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	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	26/07/2024	Mid-Flood	Cloudy	Low	16:47	2.7	M	1.35	1	0.076	163.91	7.19	7.20	2.66	2.71	29.4	29.40	38.4	38.10	2.89	2.87	21.55	21.435	31	31
M1	26/07/2024	Mid-Flood	Cloudy	Low	16:47	2.7	M	1.35	2			7.2		2.75		29.4		37.8		2.84		21.32		31	
M2	26/07/2024	Mid-Flood	Cloudy	Low	17:22	2.4	M	1.20	1	0.081	172.228	7.15	7.16	2.79	2.81	29.4	29.45	40.4	39.77	3.04	2.99	22.66	22.45	32	33
M2	26/07/2024	Mid-Flood	Cloudy	Low	17:22	2.4	M	1.20	2			7.17		2.83		29.5		39.1		2.94		22.24		33	
M3	26/07/2024	Mid-Flood	Cloudy	Low	17:32	2.2	M	1.10	1	0.089	167.228	7.17	7.18	3.15	3.14	29.4	29.45	47.7	47.41	3.59	3.57	31.82	31.665	34	34
M3	26/07/2024	Mid-Flood	Cloudy	Low	17:32	2.2	M	1.10	2			7.18		3.13		29.5		47.1		3.54		31.51		33	
M1	26/07/2024	Mid-Ebb	Cloudy	Low	10:57	2.5	M	1.25	1	0.077	313.428	7.2	7.20	2.87	2.89	29.5	29.50	37.2	37.57	2.8	2.83	22.63	22.605	34	40
M1	26/07/2024	Mid-Ebb	Cloudy	Low	10:57	2.5	M	1.25	2			7.2		2.91		29.5		37.9		2.85		22.58		45	
M2	26/07/2024	Mid-Ebb	Cloudy	Low	10:19	2.2	M	1.10	1	0.075	324.948	7.12	7.12	2.79	2.75	29.5	29.50	36.6	36.31	2.75	2.73	24.51	24.305	39	38
M2	26/07/2024	Mid-Ebb	Cloudy	Low	10:19	2.2	M	1.10	2			7.11		2.71		29.5		36.0		2.71		24.1		37	
M3	26/07/2024	Mid-Ebb	Cloudy	Low	11:08	2.1	M	1.05	1	0.078	332.619	7.13	7.13	3.29	3.26	29.5	29.50	48.9	49.14	3.68	3.70	32.59	32.66	27	29
M3	26/07/2024	Mid-Ebb	Cloudy	Low	11:08	2.1	M	1.05	2			7.12		3.22		29.5		49.3		3.71		32.73		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  
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	29/07/2024	Mid-Flood	Cloudy	Low	10:10	2.6	M	1.30	1	0.085	164.833	7.08	7.09	3.09	3.12	28.1	28.15	35.4	35.58	2.66	2.68	18.99	18.77	31	31
M1	29/07/2024	Mid-Flood	Cloudy	Low	10:10	2.6	M	1.30	2			7.1		3.14		28.2		35.8		2.69		18.55		30	
M2	29/07/2024	Mid-Flood	Cloudy	Low	10:48	2.3	M	1.15	1	0.095	168.808	7.11	7.11	3.15	3.14	28.1	28.15	34.0	34.51	2.56	2.60	19.56	19.525	28	29
M2	29/07/2024	Mid-Flood	Cloudy	Low	10:48	2.3	M	1.15	2			7.11		3.13		28.2		35.0		2.63		19.49		30	
M3	29/07/2024	Mid-Flood	Cloudy	Low	10:55	2.1	M	1.05	1	0.088	173.134	7.11	7.12	3.49	3.48	28.1	28.15	45.8	45.49	3.44	3.42	31.73	31.83	32	33
M3	29/07/2024	Mid-Flood	Cloudy	Low	10:55	2.1	M	1.05	2			7.12		3.46		28.2		45.2		3.4		31.93		34	
M1	29/07/2024	Mid-Ebb	Cloudy	Low	14:36	2.6	M	1.30	1	0.074	325.807	7.06	7.06	3.05	3.05	28.3	28.35	36.4	36.44	2.74	2.74	21.15	21.06	41	37
M1	29/07/2024	Mid-Ebb	Cloudy	Low	14:37	2.6	M	1.30	2			7.05		3.05		28.4		36.4		2.74		20.97		33	
M2	29/07/2024	Mid-Ebb	Cloudy	Low	14:01	2.2	M	1.10	1	0.073	315.022	7.08	7.09	3.22	3.25	28.3	28.35	37.4	36.91	2.81	2.78	21.38	21.495	38	43
M2	29/07/2024	Mid-Ebb	Cloudy	Low	14:02	2.2	M	1.10	2			7.1		3.27		28.4		36.4		2.74		21.61		47	
M3	29/07/2024	Mid-Ebb	Cloudy	Low	14:49	2.1	M	1.05	1	0.08	340.326	7.13	7.13	3.67	3.70	28.3	28.35	47.3	47.88	3.56	3.60	30.43	30.565	33	33
M3	29/07/2024	Mid-Ebb	Cloudy	Low	14:49	2.1	M	1.05	2			7.12		3.73		28.4		48.4		3.64		30.7		32	

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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	31/07/2024	Mid-Flood	Cloudy	Low	9:45	2.5	M	1.25	1	0.091	164.045	7.11	7.11	3.67	3.69	28.5	28.50	40.0	39.83	3.01	3.00	24.56	24.565	8	8
M1	31/07/2024	Mid-Flood	Cloudy	Low	9:45	2.5	M	1.25	2			7.1		3.7		28.5		39.6		2.98		24.57		7	
M2	31/07/2024	Mid-Flood	Cloudy	Low	10:22	2.1	M	1.05	1	0.078	182.955	7.15	7.14	3.88	3.84	28.5	28.50	39.2	38.64	2.95	2.91	25.55	25.595	4	5
M2	31/07/2024	Mid-Flood	Cloudy	Low	10:22	2.1	M	1.05	2			7.13		3.79		28.5		38.0		2.86		25.64		6	
M3	31/07/2024	Mid-Flood	Cloudy	Low	10:35	2	M	1.00	1	0.08	172.629	7.18	7.18	4.21	4.25	28.5	28.55	48.8	48.41	3.67	3.64	36.90	36.84	6	7
M3	31/07/2024	Mid-Flood	Cloudy	Low	10:35	2	M	1.00	2			7.17		4.28		28.6		48.0		3.61		36.78		7	
M1	31/07/2024	Mid-Ebb	Cloudy	Low	18:11	2.5	M	1.25	1	0.06	309.885	7.14	7.14	3.81	3.80	28.6	28.65	37.5	37.37	2.82	2.81	25.34	25.355	7	8
M1	31/07/2024	Mid-Ebb	Cloudy	Low	18:12	2.5	M	1.25	2			7.14		3.79		28.7		37.2		2.8		25.37		9	
M2	31/07/2024	Mid-Ebb	Cloudy	Low	17:40	2	M	1.00	1	0.06	319.031	7.13	7.14	3.77	3.77	28.6	28.65	39.5	39.04	2.97	2.94	26.11	26.165	6	5
M2	31/07/2024	Mid-Ebb	Cloudy	Low	17:41	2	M	1.00	2			7.14		3.77		28.7		38.6		2.9		26.22		3	
M3	31/07/2024	Mid-Ebb	Cloudy	Low	18:28	1.8	M	0.90	1	0.071	328.259	7.12	7.12	4.17	4.17	28.6	28.65	50.0	49.41	3.76	3.72	35.41	35.535	5	5
M3	31/07/2024	Mid-Ebb	Cloudy	Low	18:28	1.8	M	0.90	2			7.12		4.17		28.7		48.8		3.67		35.66		4	

Remark

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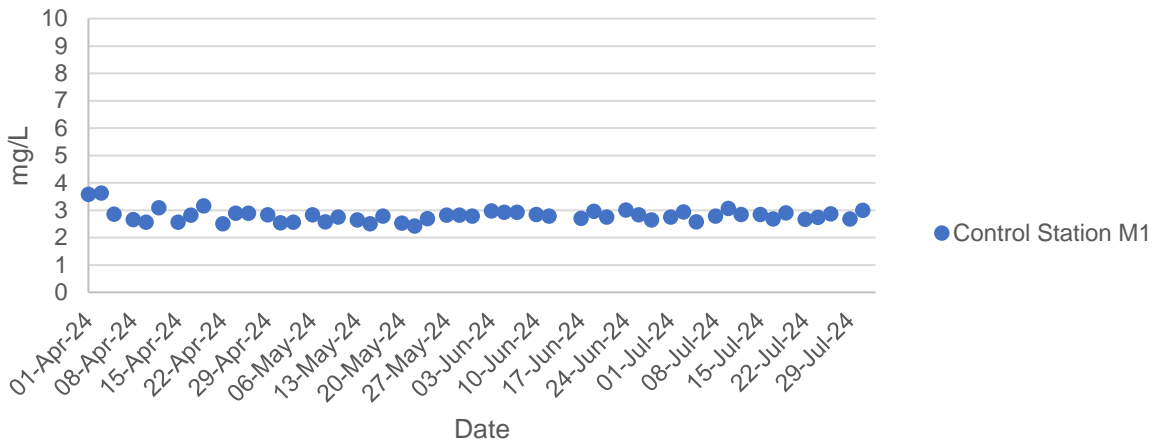
For Flood Tide

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

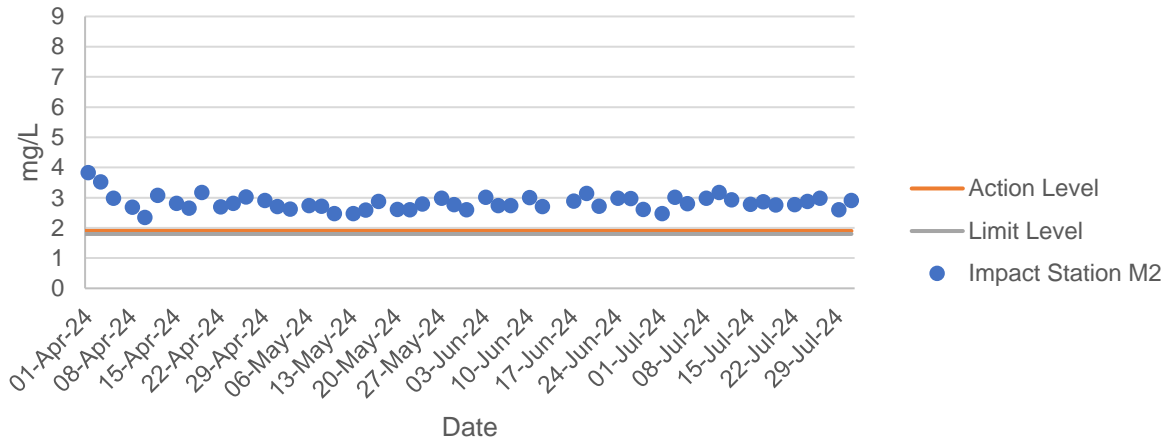
For Ebb Tide

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

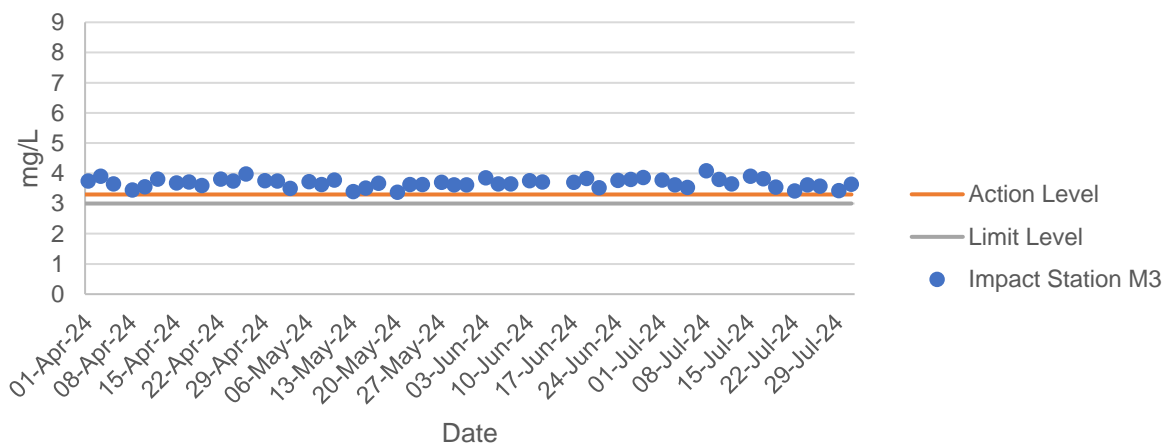
### Dissolved Oxygen at Mid-Flood Tide



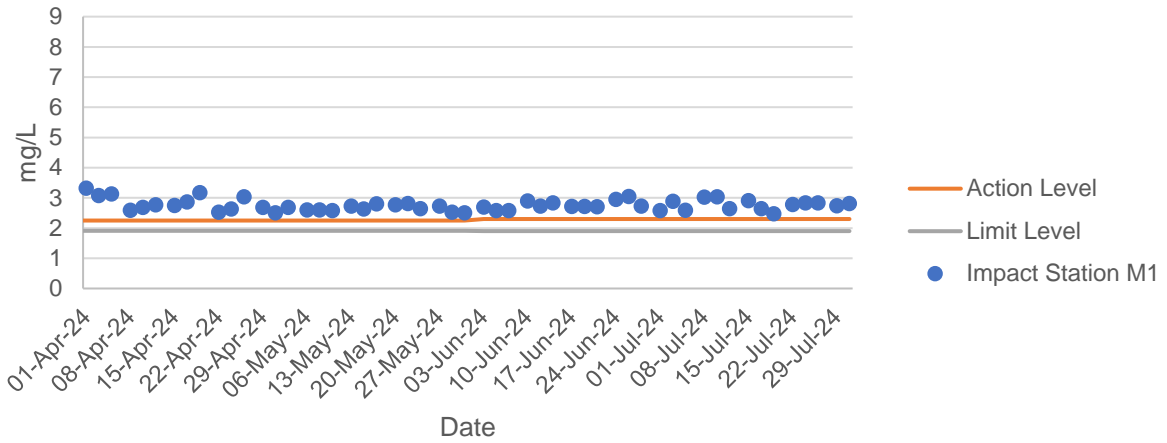
### Dissolved Oxygen at Mid-Flood Tide



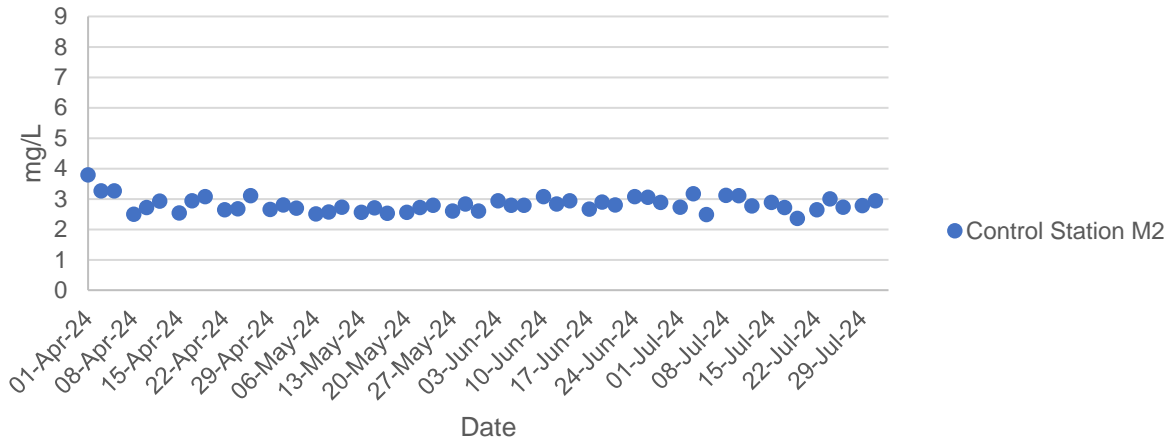
### Dissolved Oxygen at Mid-Flood Tide



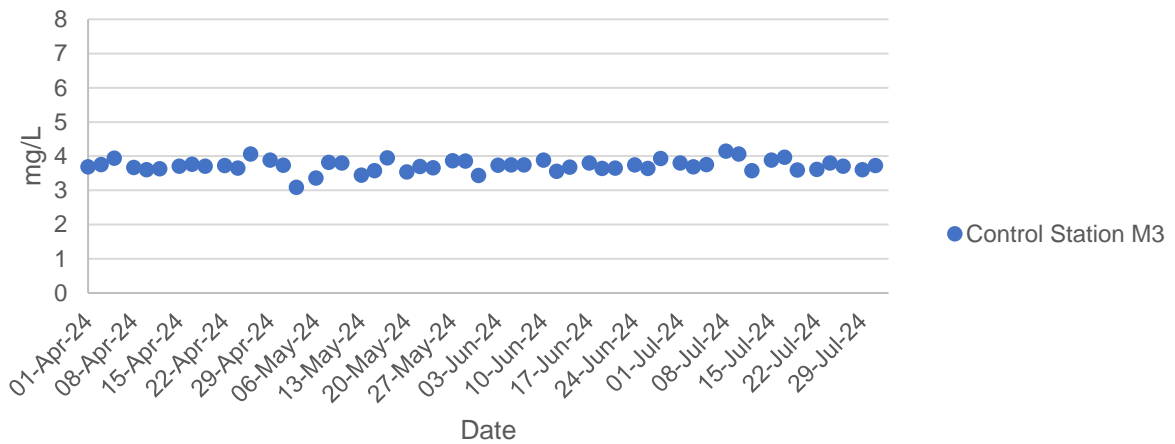
### Dissolved Oxygen at Mid-Ebb Tide



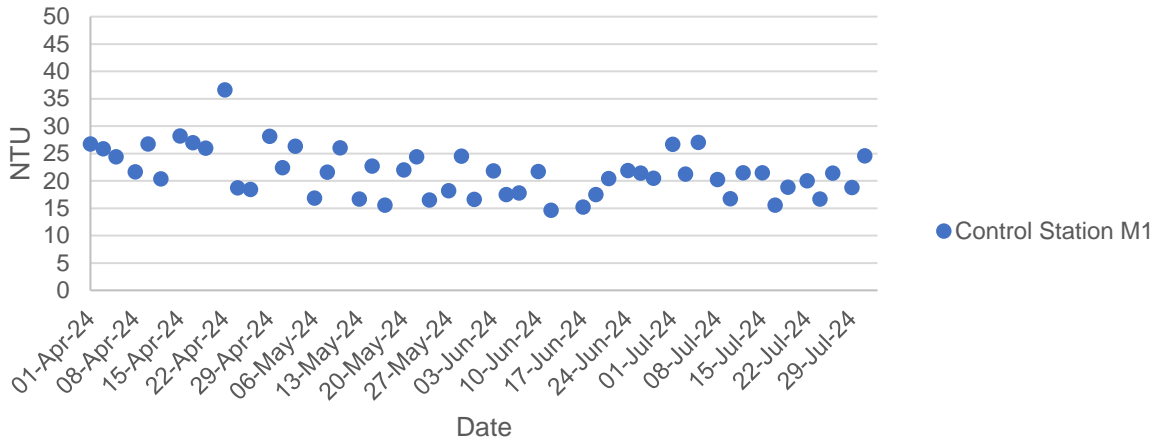
### Dissolved Oxygen at Mid-Ebb Tide



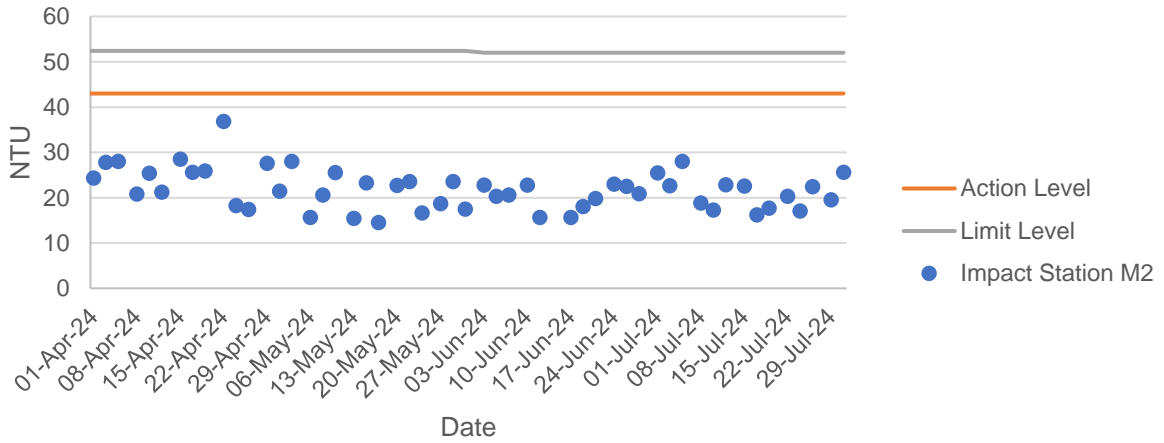
### Dissolved Oxygen at Mid-Ebb Tide



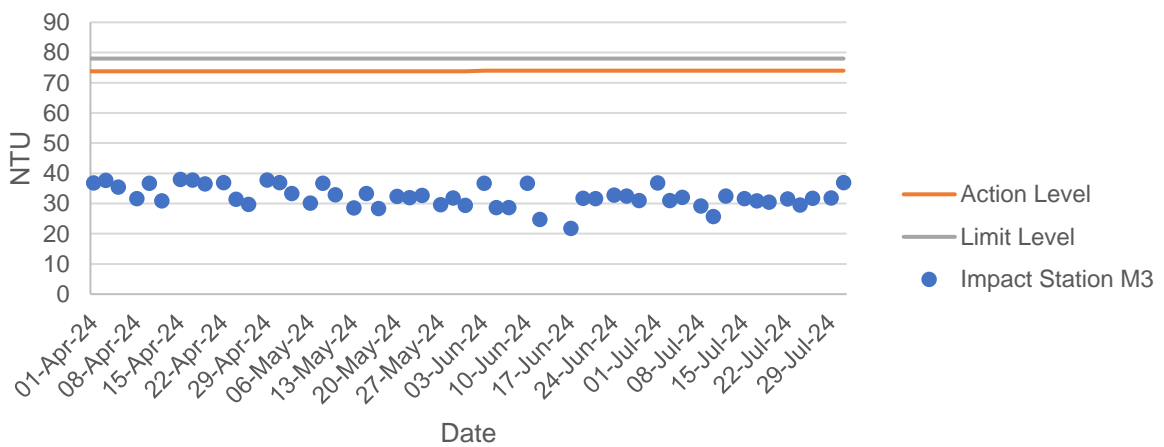
### Turbidity at Mid-Flood Tide



### Turbidity at Mid-Flood Tide

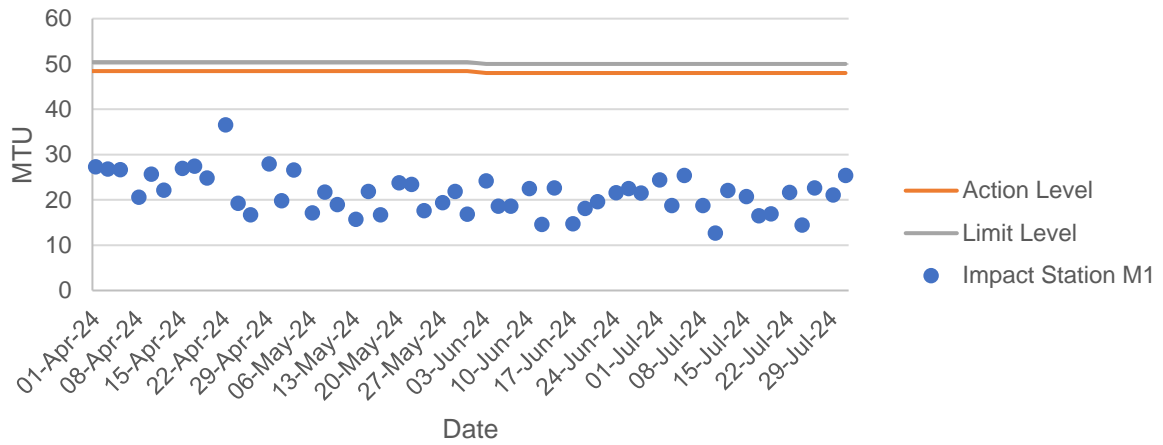


### Turbidity at Mid-Flood Tide

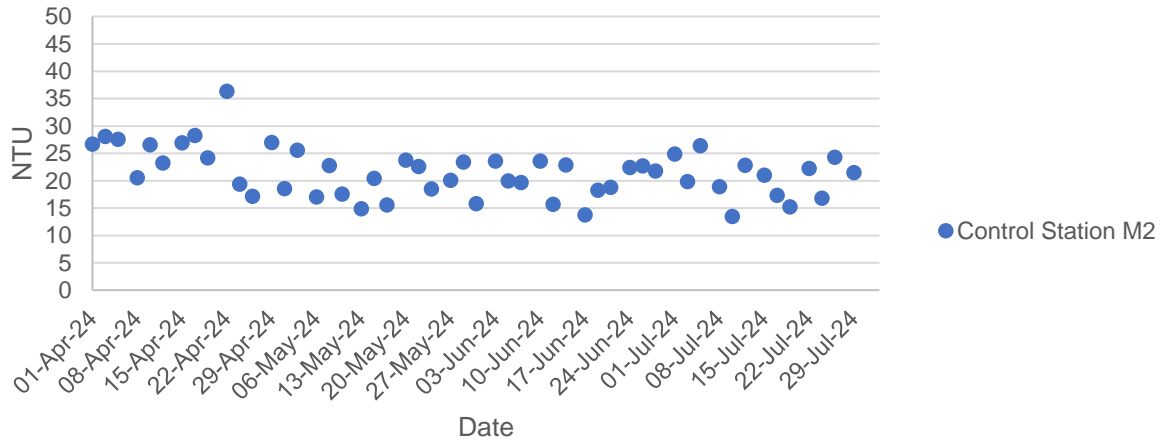




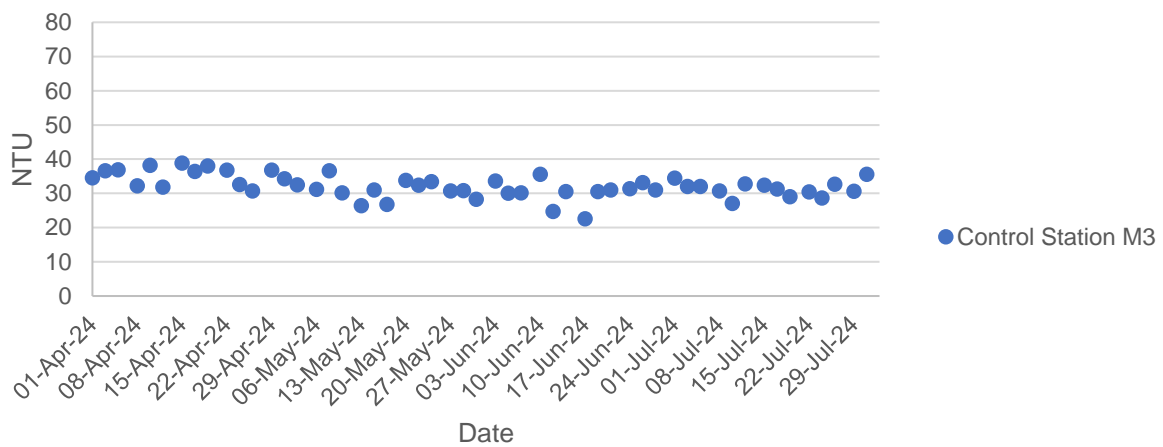
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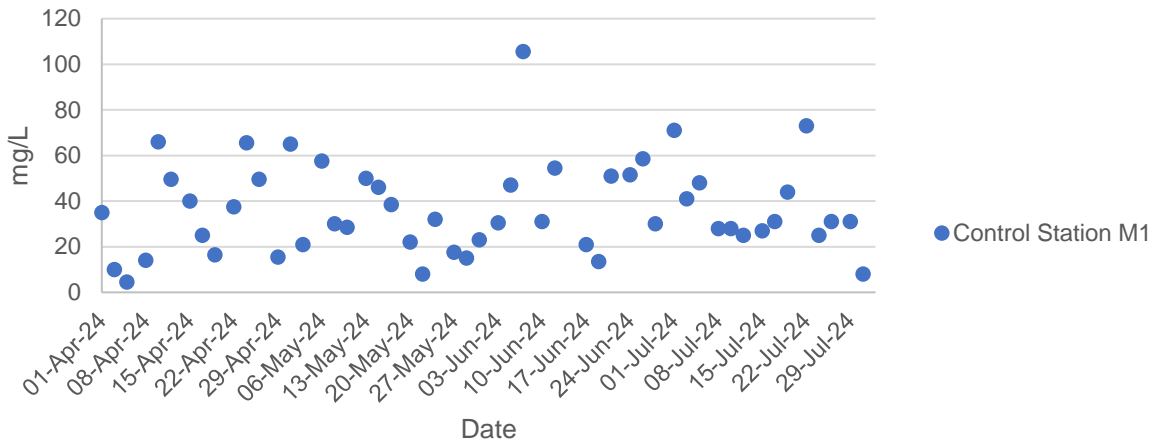
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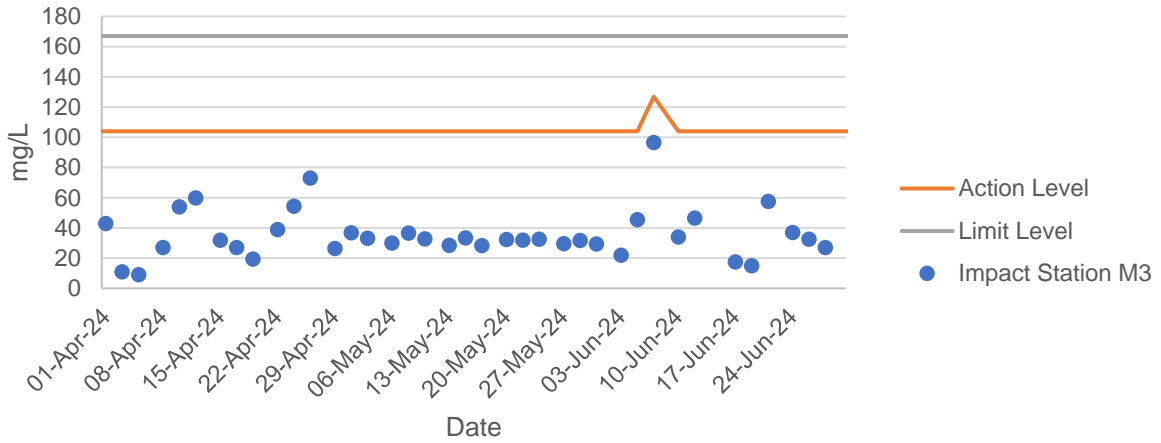
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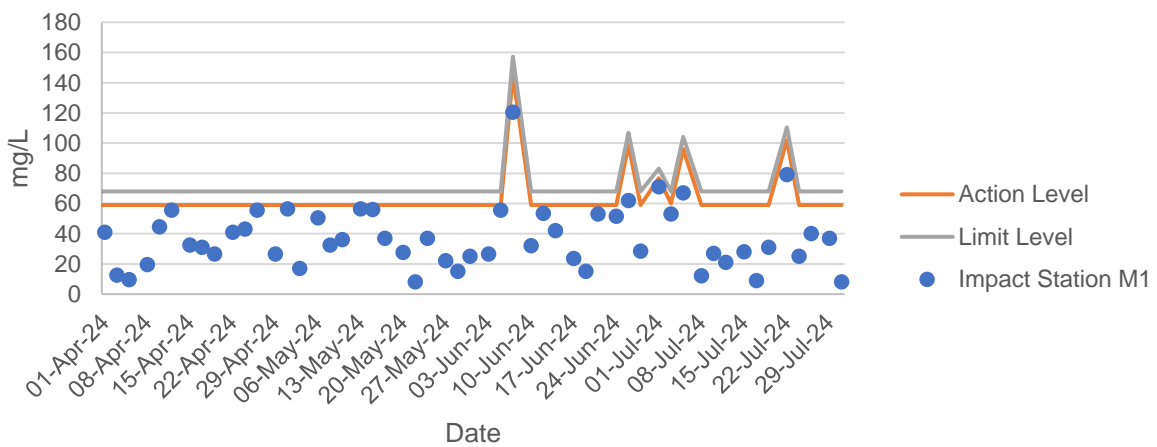
### Total Suspended Solids at Mid-Flood Tide



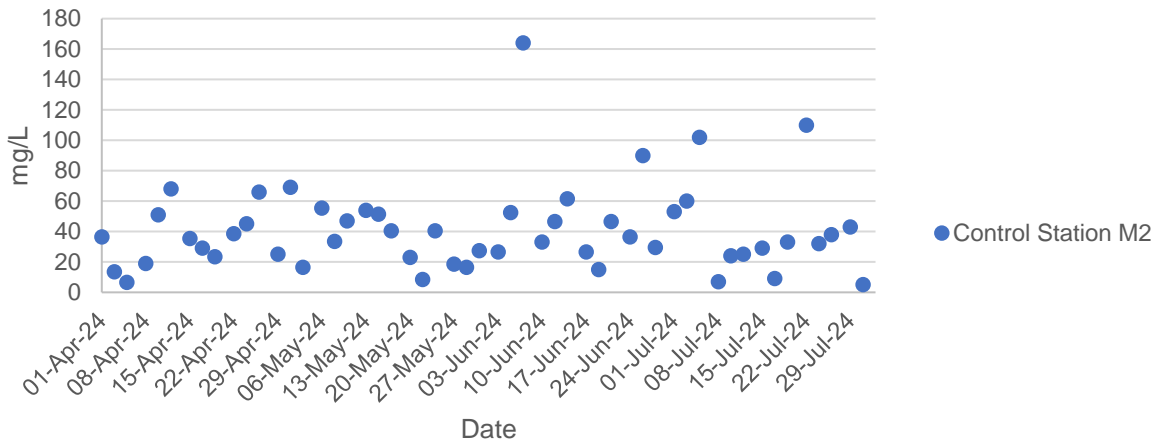
### Total Suspended Solids at Mid-Flood Tide



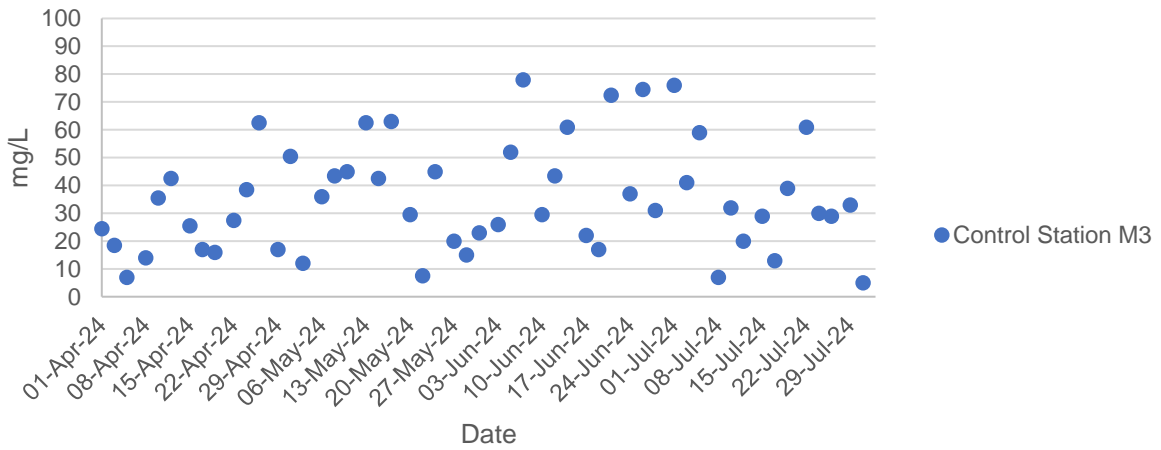
### Total Suspended Solids at Mid-Ebb Tide



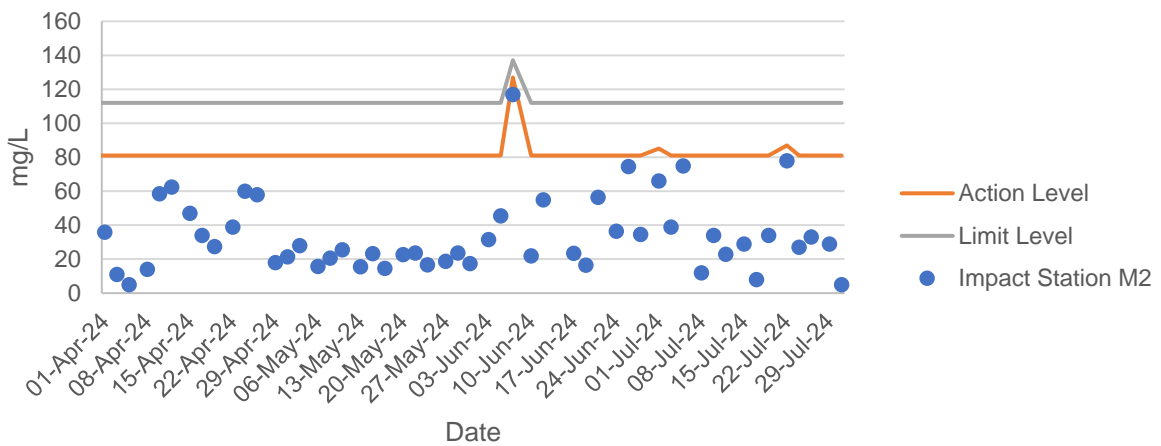
### Total Suspended Solids at Mid-Ebb Tide



### Total Suspended Solids at Mid-Ebb Tide



### Total Suspended Solids at Mid-Flood 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 (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
8/07/2024	Night-time	Wet	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
8/07/2024	Night-time	Wet	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	55	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
8/07/2024	Night-time	Wet	NSW	Transect	NSW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	-	-	-	LC	LC	N	Y
8/07/2024	Night-time	Wet	NSW	Transect	NSW	Savanna Nightjar	<i>Caprimulgus affinis</i>	1	Uncommon	R.PM	-	-	-	DD	-	N	N
8/07/2024	Night-time	Wet	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
8/07/2024	Night-time	Wet	NSW	Point Count	SP/NSW3	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	3	Common	R,WV	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	White-shouldered Starling	<i>Sturnia sinensis</i>	50	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	7	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Barn Swallow	<i>Hirundo rustica</i>	5	Abundant	PM,SV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Azure-winged Magpie	<i>Cyanopica cyanus</i>	4	Introduced	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N

## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Asian Koel	<i>Eudynamys scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Transect	FLW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	14	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	Common Myna	<i>Acridotheres tristis</i>	20	Uncommon	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	White-shouldered Starling	<i>Sturnia sinensis</i>	5	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	Crested Myna	<i>Acridotheres cristatellus</i>	20	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	Common Greenshank	<i>Tringa nebularia</i>	4	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW1	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW2	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW2	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW2	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW3	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW3	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW3	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	black drongo	<i>Dicrurus macrocercus</i>	2	Common	SV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	White-shouldered Starling	<i>Sturnia sinensis</i>	80	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Red-billed Starling	<i>Spodiopsar sericeus</i>	25	Common	WV	GC	-	-	LC	LC	Y	Y

## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Common	-	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Spotted Dove	<i>Spilopelia chinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Eurasian Tree Sparrow	<i>Passer montanus</i>	6	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Scaly-breasted Munia	<i>Lonchura punctulata</i>	8	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Rock Dove	<i>Columba livia</i>	3	Abundant	R	-	-	-	-	-	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Collared Crow	<i>Corvus torquatus</i>	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW4	Yellow Bittern	<i>Ixobrychus sinensis</i>	1	Uncommon	PM,SV	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Red-billed Starling	<i>Spodiopsar sericeus</i>	5	Common	WV	GC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	White-shouldered Starling	<i>Sturnia sinensis</i>	20	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Crested Myna	<i>Acridotheres cristatellus</i>	12	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Common Myna	<i>Acridotheres tristis</i>	4	Uncommon	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW5	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW6	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW6	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y

## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	FLW	Point Count	FLW6	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW6	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Chinese Pond Heron	<i>Ardeola bacchus</i>	12	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Azure-winged Magpie	<i>Cyanopica cyanus</i>	13	Introduced	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Crested Myna	<i>Acridotheres cristatellus</i>	8	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	FLW	Point Count	FLW7	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Wood Sandpiper	<i>Tringa glareola</i>	2	Common	PM,WV	LC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Common Greenshank	<i>Tringa nebularia</i>	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Asian Koel	<i>Eudynamis scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM,SV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Transect	NSW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Transect	NSW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Asian Koel	<i>Eudynamis scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	White Wagtail	<i>Motacilla alba</i>	5	Common	PM,WV	-	-	-	LC	LC	N	N



## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	5	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Tree Sparrow	<i>Passer montanus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Common Tailorbird	<i>Orthotomus sutorius</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	NSW1	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Wood Sandpiper	<i>Tringa glareola</i>	4	Common	PM,WV	LC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Asian Koel	<i>Eudynamis scolopaceus</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Greenshank	<i>Tringa nebularia</i>	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Redshank	<i>Tringa totanus</i>	1	Common	PM	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y

## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Scaly-breasted Munia	<i>Lonchura punctulata</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Japanese Tit	<i>Parus minor</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Swinhoe's White-eye	<i>Zosterops simplex</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	-	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Greenshank	<i>Tringa nebularia</i>	3	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	3	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Wood Sandpiper	<i>Tringa glareola</i>	2	Common	PM,WV	LC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Black-winged Stilt	<i>Himantopus himantopus</i>	4	Common	PM	RC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Swinhoe's White-eye	<i>Zosterops simplex</i>	2	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Wood Sandpiper	<i>Tringa glareola</i>	4	Common	PM,WV	LC	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Crested Myna	<i>Acridotheres cristatellus</i>	6	Common	R	-	-	-	LC	LC	N	N

## Appendix F.1 Ecological Bird Monitoring Result (8 and 25 July 2024)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Scaly-breasted Munia	<i>Lonchura punctulata</i>	4	Common	R	-	-	-	LC	LC	N	N
25/07/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y

## 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): 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 (8 and 25 July 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Eudynamys scolopaceus</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Cyanopica cyanus</i>	13	0.0266	-3.6274	-0.0964	0.3498
<i>Hirundo rustica</i>	4	0.0082	-4.8061	-0.0393	0.1889
<i>Dicrurus macrocercus</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Milvus migrans</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Gracupica nigricollis</i>	19	0.0389	-3.2479	-0.1262	0.4099
<i>Nycticorax nycticorax</i>	3	0.0061	-5.0938	-0.0313	0.1592
<i>Himantopus himantopus</i>	4	0.0082	-4.8061	-0.0393	0.1889
<i>Pycnonotus sinensis</i>	7	0.0143	-4.2465	-0.0608	0.2581
<i>Ardeola bacchus</i>	96	0.1963	-1.6280	-0.3196	0.5203
<i>Corvus torquatus</i>	1	0.0020	-6.1924	-0.0127	0.0784
<i>Tringa nebularia</i>	9	0.0184	-3.9951	-0.0735	0.2938
<i>Acridotheres tristis</i>	24	0.0491	-3.0143	-0.1479	0.4459
<i>Tringa totanus</i>	3	0.0061	-5.0938	-0.0313	0.1592
<i>Actitis hypoleucos</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Orthotomus sutorius</i>	3	0.0061	-5.0938	-0.0313	0.1592
<i>Acridotheres cristatellus</i>	48	0.0982	-2.3212	-0.2278	0.5289
<i>Streptopelia decaocto</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Passer montanus</i>	13	0.0266	-3.6274	-0.0964	0.3498
<i>Ardea alba</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Centropus sinensis</i>	1	0.0020	-6.1924	-0.0127	0.0784
<i>Parus minor</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Egretta garzetta</i>	11	0.0225	-3.7945	-0.0854	0.3239
<i>Tachybaptus ruficollis</i>	4	0.0082	-4.8061	-0.0393	0.1889
<i>Copsychus saularis</i>	5	0.0102	-4.5829	-0.0469	0.2148
<i>Prinia inornata</i>	5	0.0102	-4.5829	-0.0469	0.2148
<i>Spodiopsar sericeus</i>	30	0.0613	-2.7912	-0.1712	0.4780
<i>Pycnonotus jocosus</i>	10	0.0204	-3.8898	-0.0795	0.3094
<i>Columba livia</i>	3	0.0061	-5.0938	-0.0313	0.1592
<i>Lonchura punctulata</i>	10	0.0204	-3.8898	-0.0795	0.3094
<i>Spilopelia chinensis</i>	6	0.0123	-4.4006	-0.0540	0.2376
<i>Zosterops simplex</i>	5	0.0102	-4.5829	-0.0469	0.2148
<i>Motacilla alba</i>	7	0.0143	-4.2465	-0.0608	0.2581
<i>Amaurornis phoenicurus</i>	12	0.0245	-3.7075	-0.0910	0.3373
<i>Sturnia sinensis</i>	105	0.2147	-1.5384	-0.3303	0.5082
<i>Halcyon smyrnensis</i>	2	0.0041	-5.4992	-0.0225	0.1237
<i>Tringa glareola</i>	6	0.0123	-4.4006	-0.0540	0.2376
<i>Ixobrychus sinensis</i>	1	0.0020	-6.1924	-0.0127	0.0784
<i>Prinia flaviventris</i>	5	0.0102	-4.5829	-0.0469	0.2148
Total	489	1.0000	-174.0622	-2.8029	9.4433
Richness	39				
SS	9.4433				
SQ	7.8560				
H	2.8029				
S <sup>2</sup> H	0.0033				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (8 and 25 July 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Milvus migrans</i>	2	0.0071	-4.9416	-0.0353	0.1744
<i>Nycticorax nycticorax</i>	3	0.0107	-4.5362	-0.0486	0.2205
<i>Himantopus himantopus</i>	4	0.0143	-4.2485	-0.0607	0.2579
<i>Ardeola bacchus</i>	96	0.3429	-1.0704	-0.3670	0.3929
<i>Corvus torquatus</i>	1	0.0036	-5.6348	-0.0201	0.1134
<i>Tringa nebularia</i>	9	0.0321	-3.4376	-0.1105	0.3798
<i>Tringa totanus</i>	3	0.0107	-4.5362	-0.0486	0.2205
<i>Ardea alba</i>	2	0.0071	-4.9416	-0.0353	0.1744
<i>Centropus sinensis</i>	1	0.0036	-5.6348	-0.0201	0.1134
<i>Egretta garzetta</i>	11	0.0393	-3.2369	-0.1272	0.4116
<i>Tachybaptus ruficollis</i>	4	0.0143	-4.2485	-0.0607	0.2579
<i>Spodiopsar sericeus</i>	30	0.1071	-2.2336	-0.2393	0.5345
<i>Sturnia sinensis</i>	105	0.3750	-0.9808	-0.3678	0.3608
<i>Halcyon smyrnensis</i>	2	0.0071	-4.9416	-0.0353	0.1744
<i>Tringa glareola</i>	6	0.0214	-3.8430	-0.0824	0.3165
<i>Ixobrychus sinensis</i>	1	0.0036	-5.6348	-0.0201	0.1134
Total	280	1.0000	-64.1010	-1.6790	4.2162
Richness	16				
SS	4.2162				
SQ	2.8190				
H	1.6790				
S <sup>2</sup> H	0.0051				

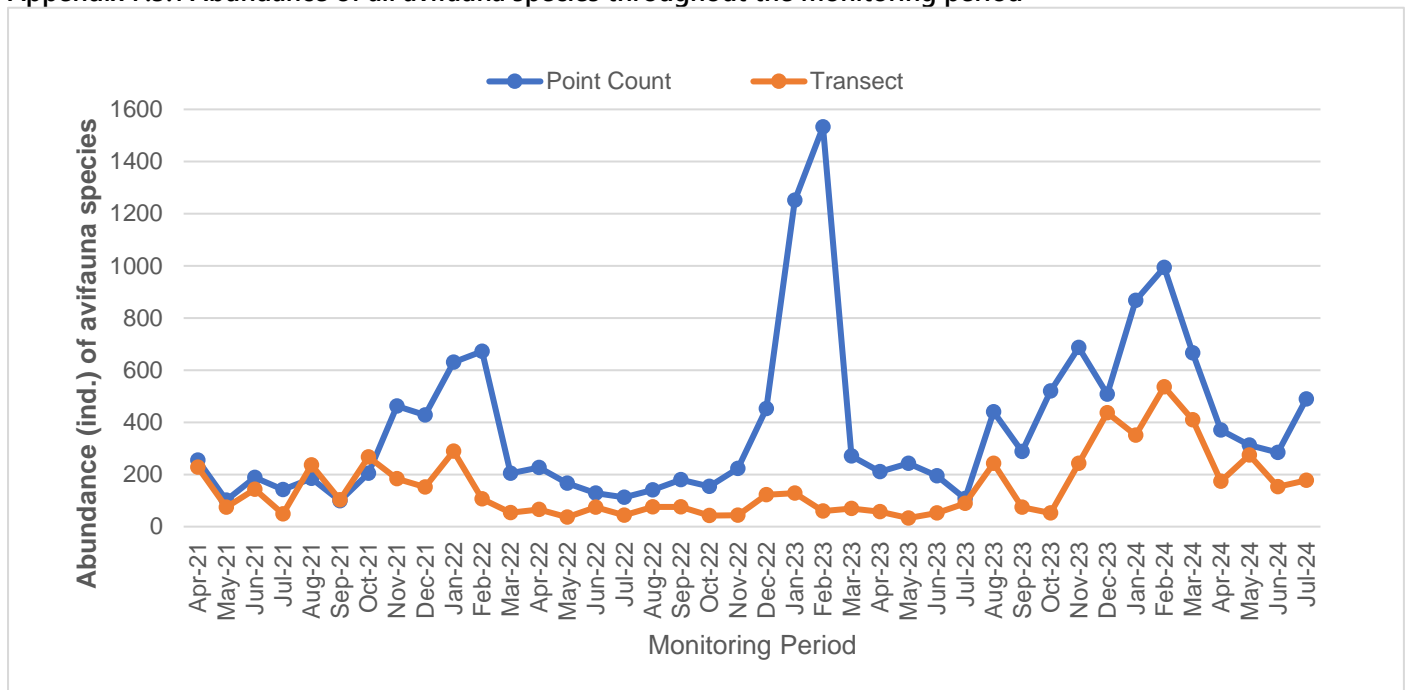
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (8 and 25 July 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Eudynamys scolopaceus</i>	2	0.0113	-4.4830	-0.0507	0.2271
<i>Cyanopica cyanus</i>	4	0.0226	-3.7899	-0.0856	0.3246
<i>Hirundo rustica</i>	8	0.0452	-3.0967	-0.1400	0.4334
<i>Milvus migrans</i>	2	0.0113	-4.4830	-0.0507	0.2271
<i>Gracupica nigricollis</i>	12	0.0678	-2.6912	-0.1825	0.4910
<i>Nycticorax nycticorax</i>	4	0.0226	-3.7899	-0.0856	0.3246
<i>Pycnonotus sinensis</i>	13	0.0734	-2.6112	-0.1918	0.5008
<i>Ardeola bacchus</i>	18	0.1017	-2.2858	-0.2325	0.5313
<i>Corvus torquatus</i>	1	0.0056	-5.1761	-0.0292	0.1514
<i>Tringa nebularia</i>	1	0.0056	-5.1761	-0.0292	0.1514
<i>Orthotomus sutorius</i>	5	0.0282	-3.5667	-0.1008	0.3594
<i>Acridotheres cristatellus</i>	13	0.0734	-2.6112	-0.1918	0.5008
<i>Passer montanus</i>	2	0.0113	-4.4830	-0.0507	0.2271
<i>Ardea alba</i>	4	0.0226	-3.7899	-0.0856	0.3246
<i>Centropus sinensis</i>	3	0.0169	-4.0775	-0.0691	0.2818
<i>Egretta garzetta</i>	7	0.0395	-3.2302	-0.1277	0.4127
<i>Lanius schach</i>	2	0.0113	-4.4830	-0.0507	0.2271
<i>Copsychus saularis</i>	2	0.0113	-4.4830	-0.0507	0.2271
<i>Prinia inornata</i>	4	0.0226	-3.7899	-0.0856	0.3246
<i>Caprimulgus affinis</i>	1	0.0056	-5.1761	-0.0292	0.1514
<i>Lonchura punctulata</i>	6	0.0339	-3.3844	-0.1147	0.3883
<i>Spilopelia chinensis</i>	1	0.0056	-5.1761	-0.0292	0.1514
<i>Amaurornis phoenicurus</i>	5	0.0282	-3.5667	-0.1008	0.3594
<i>Sturnia sinensis</i>	50	0.2825	-1.2641	-0.3571	0.4514
<i>Tringa glareola</i>	6	0.0339	-3.3844	-0.1147	0.3883
<i>Prinia flaviventris</i>	1	0.0056	-5.1761	-0.0292	0.1514
Total	177	1.0000	-99.2254	-2.6654	8.2892
Richness	26				
SS	8.2892				
SQ	7.1046				
H	2.6654				
S <sup>2</sup> H	0.007092				

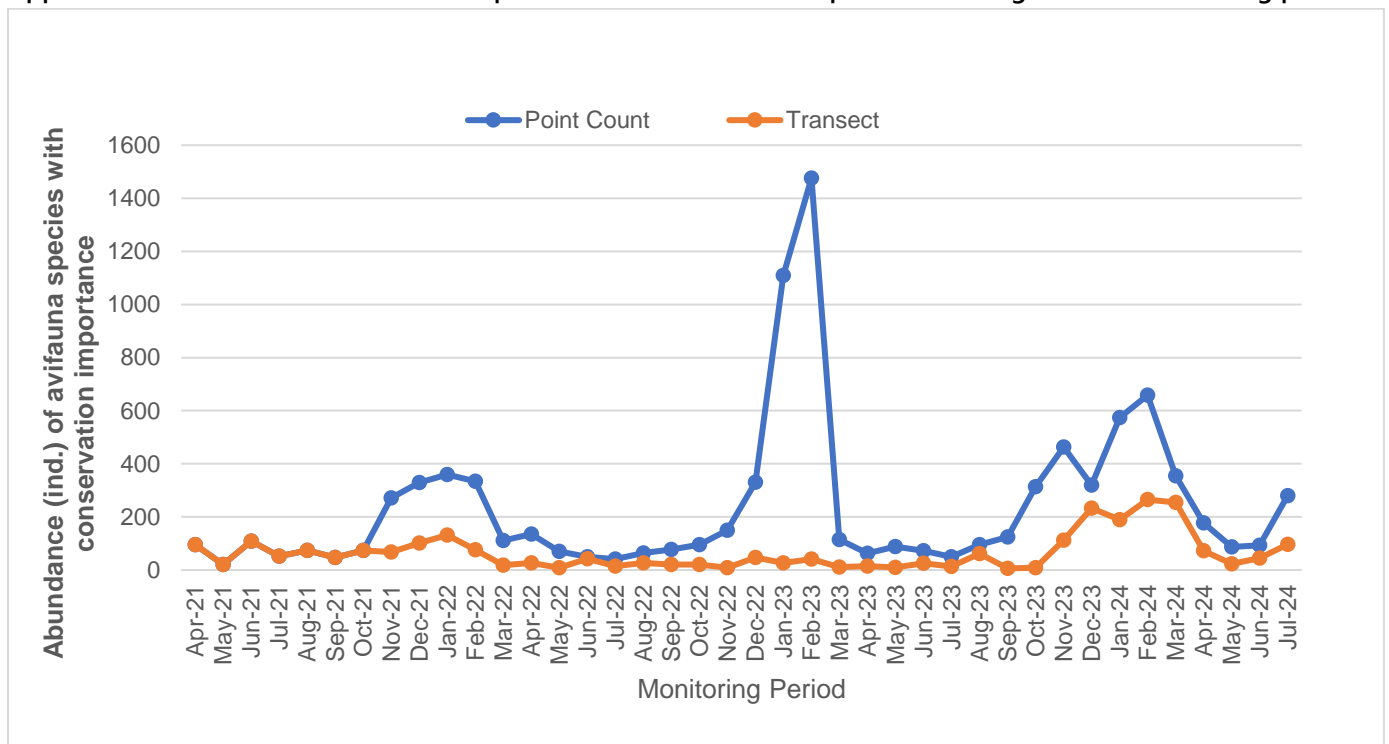
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (8 and 25 July 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Milvus migrans</i>	2	0.0208	-3.8712	-0.0807	0.3122
<i>Nycticorax nycticorax</i>	4	0.0417	-3.1781	-0.1324	0.4208
<i>Ardeola bacchus</i>	18	0.1875	-1.6740	-0.3139	0.5254
<i>Corvus torquatus</i>	1	0.0104	-4.5643	-0.0475	0.2170
<i>Tringa nebularia</i>	1	0.0104	-4.5643	-0.0475	0.2170
<i>Ardea alba</i>	4	0.0417	-3.1781	-0.1324	0.4208
<i>Centropus sinensis</i>	3	0.0313	-3.4657	-0.1083	0.3754
<i>Egretta garzetta</i>	7	0.0729	-2.6184	-0.1909	0.4999
<i>Sturnia sinensis</i>	50	0.5208	-0.6523	-0.3398	0.2216
<i>Tringa glareola</i>	6	0.0625	-2.7726	-0.1733	0.4805
Total	96	1.0000	-30.5391	-1.5667	3.6907
Richness	10				
SS	3.6907				
SQ	2.4546				
H	1.5667				
S <sup>2</sup> H	0.01336				

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

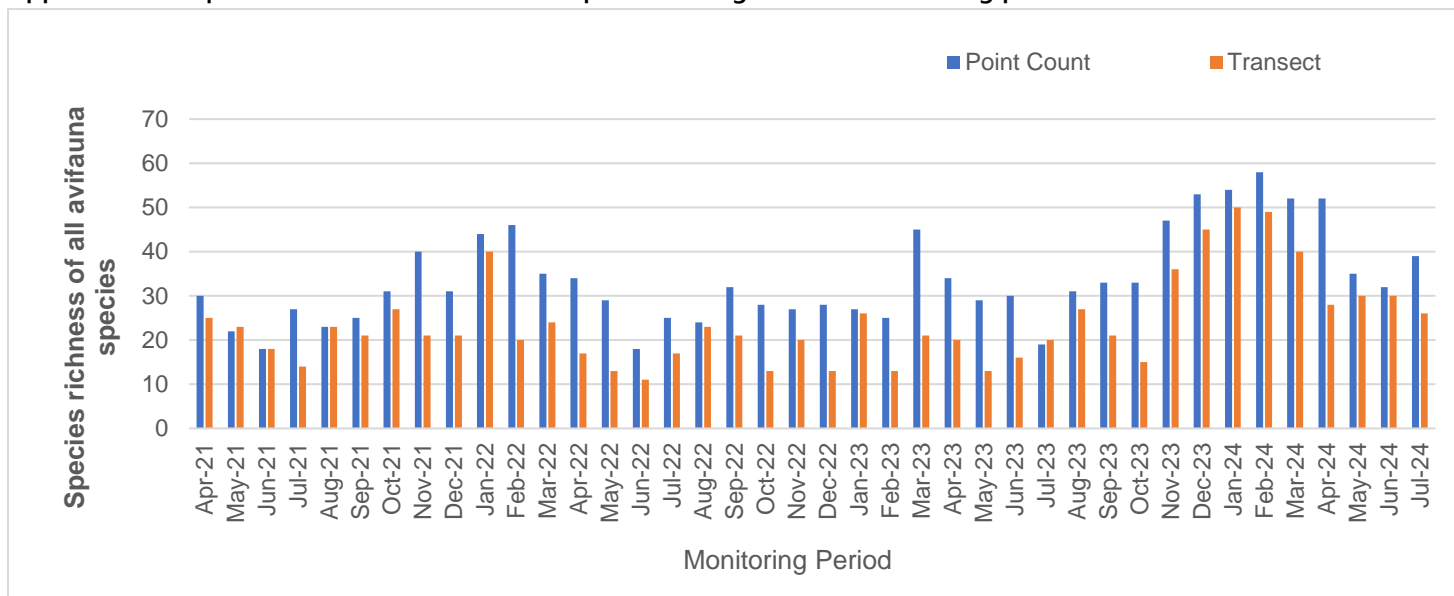


Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period

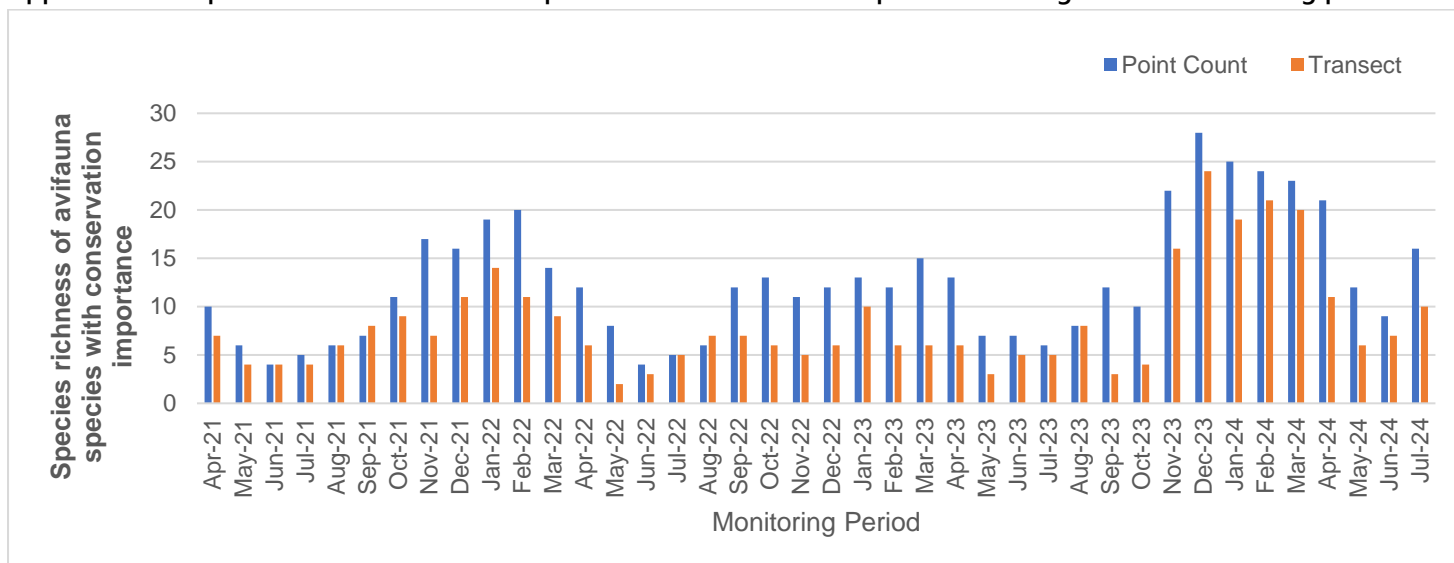




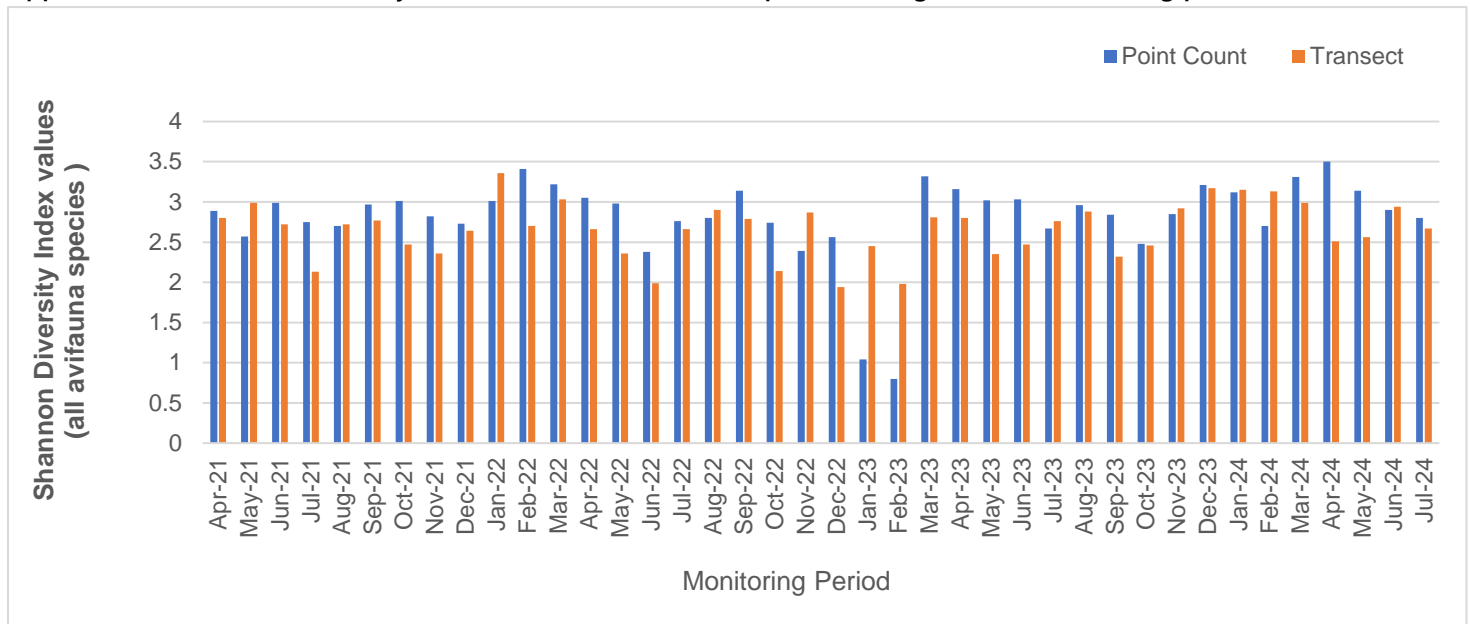
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



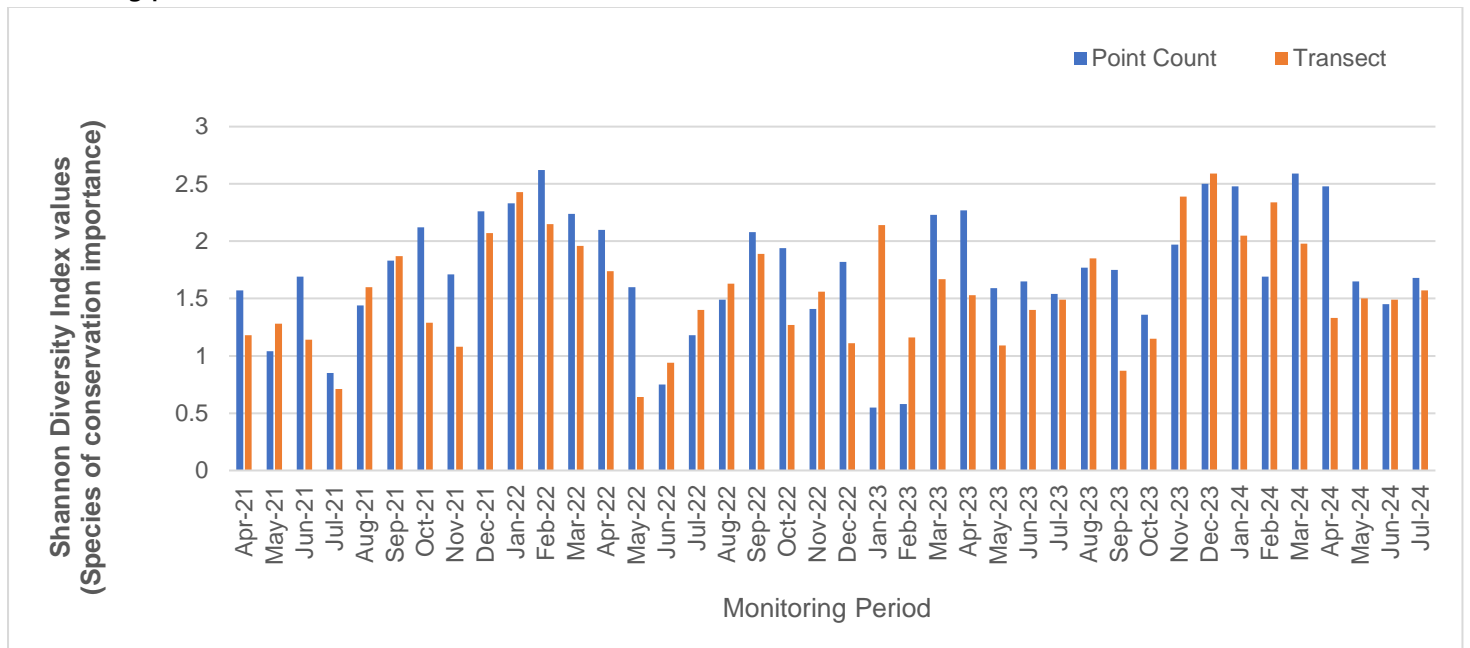
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	July 2017	July 2024
Total	165	489
Richness	26	39
H	2.7286	2.8029
S <sup>2</sup> H	0.006100	0.003326
t	0.7651	
df	358.0388	
Crit	1.9666	
p	0.4447	
CI	0.1562	0.1153

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

Months	July 2017	July 2024
Total	36	177
Richness	18	26
H	2.5993	2.6654
S <sup>2</sup> H	0.02415	0.007092
t	0.3744	
df	59.2087	
Crit	2.0010	
p	7.09E-01	
CI	0.3108	0.1684

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

Months	July 2017	July 2024
Total	80	280
Richness	5	16
H	1.3642	1.6790
S <sup>2</sup> H	0.004500	0.005085
t	3.2153	
df	265.9460	
Crit	1.9690	
p	0.0015	
CI	0.1342	0.1426

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

Months	July 2017	July 2024
Total	8	96
Richness	3	10
H	0.9003	1.5667
S <sup>2</sup> H	0.05920	0.01336
t	2.4741	
df	11.9688	
Crit	2.2010	
p	3.09E-02	
CI	0.4866	0.2312