

# Air Quality Monitoring Results

**Air Quality Monitoring Results for**

**Contract No. SPW 02/2023**

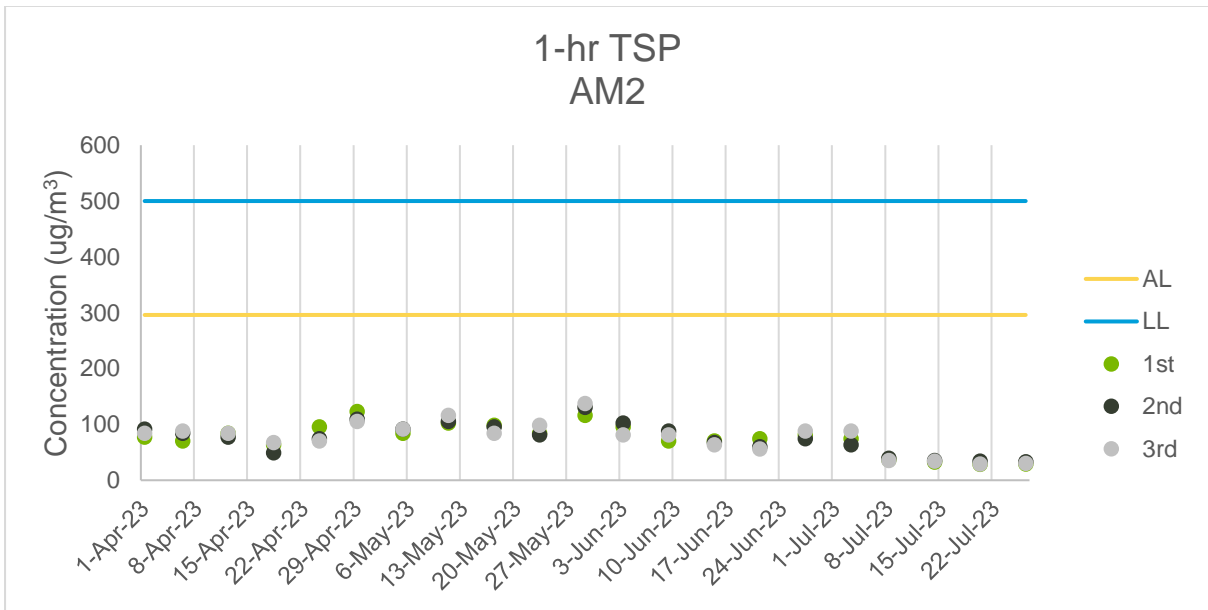
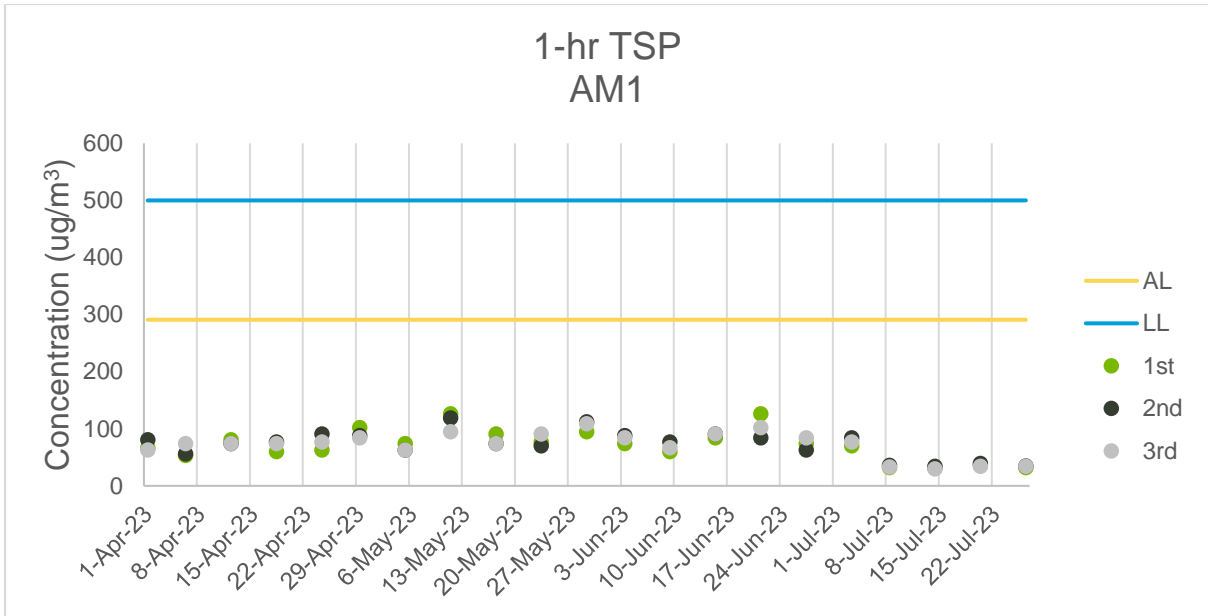
**Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1**

AM1 - Topfine Machinery (China) Co. Ltd.

Date	Weather Condition	Star Time	1-hour TSP (ug/m3)			Action Level (ug/m3)	Limit Level (ug/m3)
			1st Measurement	2nd Measurement	3rd Measurement		
3/07/2023	Fine	8:55	70	84	77	291	500
8/7/2023	Fine	10:21	32	36	33		
14/07/2023	Fine	10:02	31	34	30		
20/07/2023	Fine	15:02	36	39	34		
26/07/2023	Fine	14:44	32	35	34		
		Min	30				
		Max	84				
		Average	42				

AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Star Time	1-hour TSP (ug/m3)			Action Level (ug/m3)	Limit Level (ug/m3)
			1st Measurement	2nd Measurement	3rd Measurement		
3/07/2023	Fine	8:45	74	63	88	296	500
8/07/2023	Fine	15:21	36	39	35		
14/07/2023	Fine	13:02	32	35	34		
20/07/2023	Fine	11:32	28	34	29		
26/07/2023	Fine	10:34	29	33	30		
		Min	28				
		Max	88				
		Average	41				



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)
3/07/2023	10:02	55	57	50	0.3	Fine	75
8/07/2023	9:00	55	58	52	2.3	Sunny	75
14/07/2023	13:02	56	60	53	2.4	Fine	75
20/07/2023	10:21	56	60	51	3.2	Fine	75
26/07/2023	9:45	54	57	50	2.9	Fine	75
	Max	56					
	Min	54					

#### 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)
3/07/2023	13:01	64	66	56	0.4	Fine	75
8/07/2023	11:21	56	58	53	2.1	Sunny	75
14/07/2023	15:21	58	62	52	3.1	Fine	75
20/07/2023	13:02	55	58	50	3.5	Fine	75
26/07/2023	11:32	56	59	52	2.1	Fine	75
	Max	64					
	Min	55					

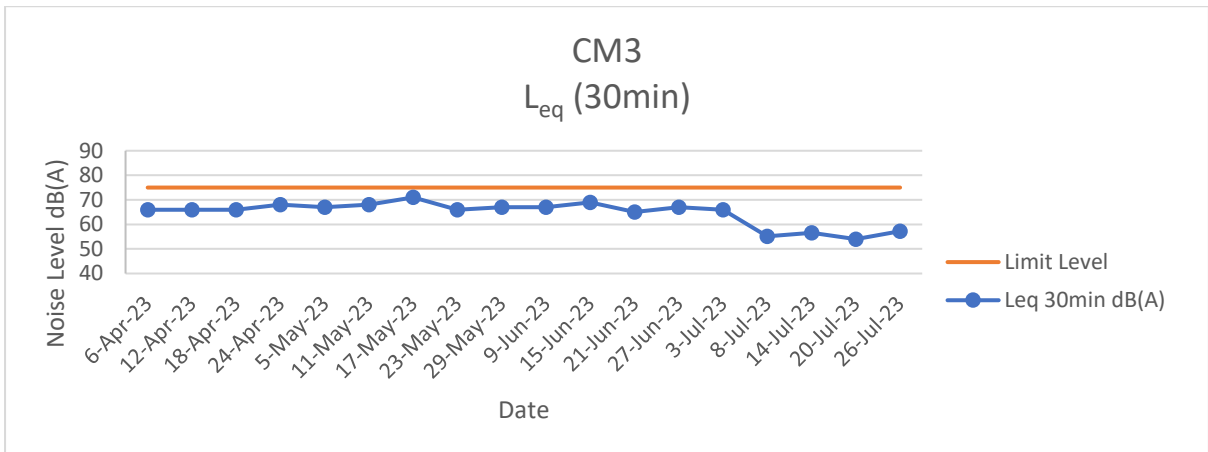
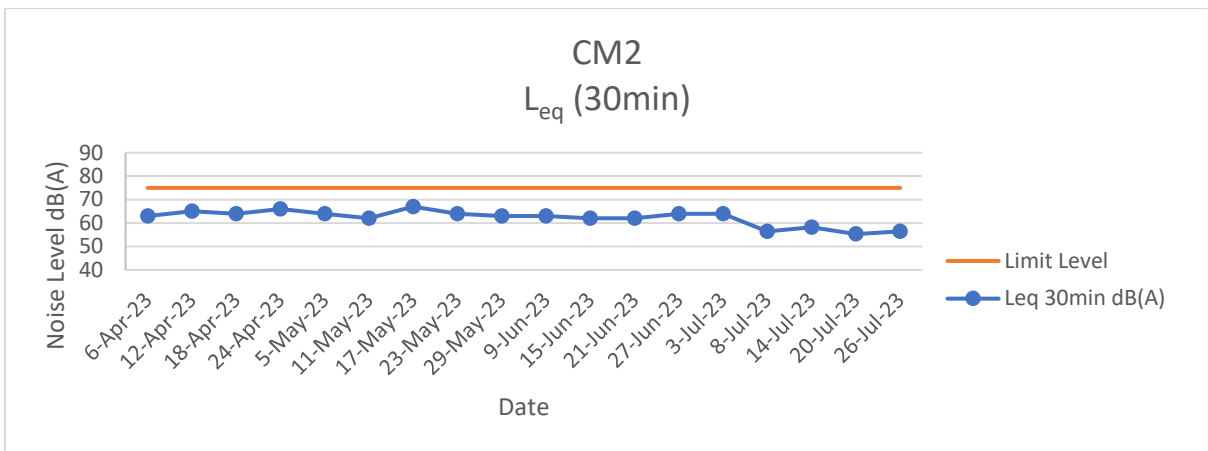
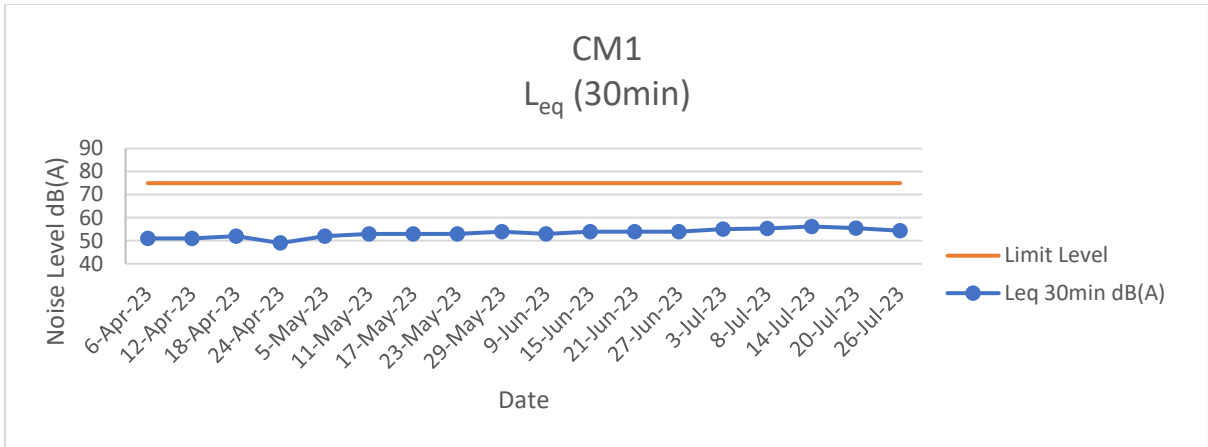
#### CM3 - Squatter house to the east of YLSTW

Date	Start Time	Leq 30min dB(A)	L10 dB(A)	L90 dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
3/07/2023	11:25	66	68	58	0.4	Fine	75
8/07/2023	12:00	55	57	52	3.1	Sunny	75
14/07/2023	16:22	57	60	53	2.8	Fine	75
20/07/2023	15:04	54	56	54	2.1	Fine	75
26/07/2023	14:45	57	60	53	3.1	Fine	75
	Max	66					
	Min	54					

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 Stage 1

**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	1/07/2023	Mid-Flood	Cloudy	Smooth	19:40	2	Middle	1.00	1	0.371	235	7.45	7.45	3.45	3.43	28.19	28.20	67.6	67.2	67.40	4.93	4.915	27.2	27.5	31	30
M1	1/07/2023	Mid-Flood	Cloudy	Smooth	19:40	2	Middle	1.00	2			7.44		3.43		28.20		67.2		4.9	27.8		28			
M2	1/07/2023	Mid-Flood	Cloudy	Smooth	19:22	1.2	Middle	0.60	1	0.38	249	7.55	7.54	2.87	2.865	28.63	28.63	65.4	65.60	65.60	4.73	4.745	25.5	25.4	26	29
M2	1/07/2023	Mid-Flood	Cloudy	Smooth	19:22	1.2	Middle	0.60	2			7.53		2.86		28.62		65.8		4.76	25.3		31			
M3	1/07/2023	Mid-Flood	Cloudy	Smooth	19:23	0.2	Middle	0.10	1	0.345	81	7.47	7.48	2.51	2.505	28.81	28.81	64.3	64.45	64.45	4.66	4.67	32.7	32.8	31	32
M3	1/07/2023	Mid-Flood	Cloudy	Smooth	19:23	0.2	Middle	0.10	2			7.48		2.5		28.8		64.6		4.68	32.9		32			
M1	1/07/2023	Mid-Ebb	Cloudy	Smooth	12:03	2.2	Middle	1.10	1	0.446	191	7.29	7.30	2.16	2.17	29.35	29.36	73.4	73.60	73.60	5.33	5.345	23.1	22.9	31	30
M1	1/07/2023	Mid-Ebb	Cloudy	Smooth	12:03	2.2	Middle	1.10	2			7.31		2.18		29.36		73.8		5.36	22.7		28			
M2	1/07/2023	Mid-Ebb	Cloudy	Smooth	12:22	1.2	Middle	0.60	1	0.432	247	7.43	7.43	2.25	2.255	29.49	29.49	71.7	71.40	71.40	5.21	5.19	20.8	20.95	22	23
M2	1/07/2023	Mid-Ebb	Cloudy	Smooth	12:22	1.2	Middle	0.60	2			7.42		2.26		29.48		71.1		5.17	21.1		23			
M3	1/07/2023	Mid-Ebb	Cloudy	Smooth	11:57	0.6	Middle	0.30	1	0.389	267	7.38	7.38	2.04	2.045	29.13	29.14	69.2	69.45	69.45	5.01	5.03	26.7	26.45	29	29
M3	1/07/2023	Mid-Ebb	Cloudy	Smooth	11:57	0.6	Middle	0.30	2			7.38		2.05		29.14		69.7		5.05	26.2		29			

Remark

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- Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
- 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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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

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	4/07/2023	Mid-Flood	Fine	Moderate	7:11	1.1	Middle	0.55	1	0.055	167	7.15	7.15	2.39	2.375	30.22	30.18	58.4	58.30	58.30	4.82	4.805	26.64	26.575	36	36
M1	4/07/2023	Mid-Flood	Fine	Moderate	7:11	1.1	Middle	0.55	2			7.14		2.36		30.14		58.2		4.79	26.51		35			
M2	4/07/2023	Mid-Flood	Fine	Moderate	7:34	0.9	Middle	0.45	1	0.067	73	7.24	7.26	2.64	2.65	30.49	30.48	62.3	62.25	62.25	5.14	5.135	21.83	21.685	18	18
M2	4/07/2023	Mid-Flood	Fine	Moderate	7:34	0.9	Middle	0.45	2			7.28		2.66		30.47		62.2		5.13	21.54		18			
M3	4/07/2023	Mid-Flood	Fine	Smooth	7:08	1	Middle	0.50	1	0.364	92	7.41	7.42	2.97	2.98	28.95	28.96	53.4	53.65	53.65	3.86	3.875	35	35.2	32	33
M3	4/07/2023	Mid-Flood	Fine	Smooth	7:08	1	Middle	0.50	2			7.42		2.99		28.96		53.9		3.89	35.4		34			
M1	4/07/2023	Mid-Ebb	Fine	Moderate	14:58	0.8	Middle	0.40	1	0.074	71	7.46	7.47	5.32	5.315	30.24	30.23	58.1	58.15	58.15	4.13	4.145	42.85	43.675	13	12
M1	4/07/2023	Mid-Ebb	Fine	Moderate	14:58	0.8	Middle	0.40	2			7.48		5.31		30.21		58.2		4.16	44.5		11			
M2	4/07/2023	Mid-Ebb	Fine	Moderate	14:34	1	Middle	0.50	1	0.093	82	7.34	7.36	5.85	5.845	30.56	30.57	52.4	52.50	52.50	3.87	3.875	35.65	39.37	8	9
M2	4/07/2023	Mid-Ebb	Fine	Moderate	14:34	1	Middle	0.50	2			7.37		5.84		30.57		52.6		3.88	43.09		9			
M3	4/07/2023	Mid-Ebb	Fine	Smooth	14:31	0.6	Middle	0.30	1	0.395	278	7.24	7.25	2.03	2.025	313.05	172.05	59.1	59.30	59.30	4.28	4.29	41.3	42.15	33	34
M3	4/07/2023	Mid-Ebb	Fine	Smooth	14:31	0.6	Middle	0.30	2			7.25		2.02		31.04		59.5		4.3	43		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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.9	53	59	68



Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	6/07/2023	Mid-Flood	Fine	Moderate	8:44	1.1	Middle	0.55	1	0.086	76	7.41	7.42	6.12	6.115	31.19	31.19	72.3	72.35	5.18	5.175	24.7	24.7	30	29
M1	6/07/2023	Mid-Flood	Fine	Moderate	8:44	1.1	Middle	0.55	2			7.43		6.11		31.18		72.4		5.17		24.7			
M2	6/07/2023	Mid-Flood	Fine	Moderate	8:59	0.9	Middle	0.45	1	0.048	106	7.47	7.47	6.11	6.125	31.19	31.18	74.7	74.80	5.35	5.345	21.9	21.85	19	18
M2	6/07/2023	Mid-Flood	Fine	Moderate	8:59	0.9	Middle	0.45	2			7.46		6.14		31.17		74.9		5.34		21.8			
M3	6/07/2023	Mid-Flood	Fine	Moderate	8:37	1	Middle	0.50	1	0.034	92	7.52	7.53	6.62	6.615	31.71	31.72	68.5	68.45	4.86	4.85	32.5	32.5	30	29
M3	6/07/2023	Mid-Flood	Fine	Moderate	8:37	1	Middle	0.50	2			7.53		6.61		31.73		68.4		4.84		32.5			
M1	6/07/2023	Mid-Ebb	Fine	Moderate	16:32	0.7	Middle	0.35	1	0.074	98	7.63	7.64	4.40	4.405	31.63	31.64	85.7	85.55	6.15	6.145	22.3	22.3	32	31
M1	6/07/2023	Mid-Ebb	Fine	Moderate	16:32	0.7	Middle	0.35	2			7.64		4.41		31.64		85.4		6.14		22.3			
M2	6/07/2023	Mid-Ebb	Fine	Moderate	16:11	0.9	Middle	0.45	1	0.047	146	7.48	7.48	6.08	6.06	31.05	31.06	67.9	67.65	4.87	4.875	26.3	26.25	31	31
M2	6/07/2023	Mid-Ebb	Fine	Moderate	16:11	0.9	Middle	0.45	2			7.47		6.04		31.07		67.4		4.88		26.2			
M3	6/07/2023	Mid-Ebb	Fine	Moderate	16:19	0.8	Middle	0.40	1	0.065	134	7.5	7.51	6.1	6.17	31.04	31.06	69.2	69.30	4.97	4.965	32.6	32.55	51	51
M3	6/07/2023	Mid-Ebb	Fine	Moderate	16:19	0.8	Middle	0.40	2			7.52		6.24		31.07		69.4		4.96		32.5			

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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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

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	8/7/2023	Mid-Flood	Sunny	Low	10:16	0.6	Middle	0.30	1	0.09	172	7.22	7.22	1.29	1.29	30.20	30.20	38.3	36.80	2.68	2.575	26.64	26.575	66	64
M1	8/7/2023	Mid-Flood	Sunny	Low	10:16	0.6	Middle	0.30	2			7.22		1.29		30.20		35.3		2.47		26.51			
M2	8/7/2023	Mid-Flood	Sunny	Low	10:42	0.7	Middle	0.35	1	0.087	193	7.21	7.21	1.39	1.39	30.30	30.30	34.4	33.85	2.41	2.37	21.83	21.685	40	39
M2	8/7/2023	Mid-Flood	Sunny	Low	10:43	0.7	Middle	0.35	2			7.21		1.39		30.30		33.3		2.33		21.54			
M3	8/7/2023	Mid-Flood	Sunny	Low	10:42	0.9	Middle	0.45	1	0.142	87	7.97	7.94	0.91	0.905	29.3	29.60	45.5	45.05	3.32	3.335	35	35.2	32	30
M3	8/7/2023	Mid-Flood	Sunny	Low	10:43	1	Middle	0.50	2			7.9		0.9		29.9		44.6		3.35		35.4			
M1	8/7/2023	Mid-Ebb	Sunny	Low	17:23	1.35	Middle	0.68	1	0.0765	293	7.37	7.38	2.67	2.63	31.30	31.35	63.6	63.45	4.45	4.44	42.85	43.675	38	39
M1	8/7/2023	Mid-Ebb	Sunny	Low	17:24	1.35	Middle	0.68	2			7.38		2.59		31.40		63.3		4.43		44.5			
M2	8/7/2023	Mid-Ebb	Sunny	Low	17:04	1.45	Middle	0.73	1	0.0855	297	7.35	7.34	2.13	2.145	31.60	31.45	57.9	57.10	4.05	3.995	35.65	39.37	48	48
M2	8/7/2023	Mid-Ebb	Sunny	Low	17:05	1.45	Middle	0.73	2			7.33		2.16		31.30		56.3		3.94		43.09			
M3	8/7/2023	Mid-Ebb	Sunny	Low	17:10	0.9	Middle	0.45	1	0.115	271	6.9	7.06	0.85	0.865	30.3	30.20	51.6	51.35	4.22	4.26	41.3	42.15	40	38
M3	8/7/2023	Mid-Ebb	Sunny	Low	17:12	0.8	Middle	0.40	2			7.21		0.88		30.1		51.1		4.3		43			

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For Flood Tide

Monitoring Location	DO		NTU		SS	
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M2(Impact Station)	1.88	1.79	43	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
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M1(Impact Station)	2.25	1.91	48.9	53	59	68

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Water Quality Monitoring Results

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										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	11/7/2023	Mid-Flood	Sunny	Low	13:51	0.85	Middle	0.43	1	0.0865	180	7.37	7.37	0.80	0.8	32.30	32.30	61.3	60.50	4.29	4.235	45.01	41.125	62	63
M1	11/7/2023	Mid-Flood	Sunny	Low	13:52	0.85	Middle	0.43	2			7.36		0.80		32.30		59.7		4.18		37.24		64	
M2	11/7/2023	Mid-Flood	Sunny	Low	14:09	0.6	Middle	0.30	1	0.0925	188	7.4	7.40	0.78	0.78	32.30	32.30	68.2	67.55	4.77	4.725	40.27	40.17	78	69
M2	11/7/2023	Mid-Flood	Sunny	Low	14:11	0.6	Middle	0.30	2			7.39		0.78		32.30		66.9		4.68		40.07		60	
M3	11/7/2023	Mid-Flood	Sunny	Low	14:30	1	Middle	0.50	1	0.147	83	7.45	7.45	0.68	0.685	28.8	28.45	64.4	63.95	5.76	5.765	32.3	32.5	38	41
M3	11/7/2023	Mid-Flood	Sunny	Low	14:32	1	Middle	0.50	2			7.45		0.69		28.1		63.5		5.77		32.7		44	
M1	11/7/2023	Mid-Ebb	Sunny	Low	8:45	0.75	Middle	0.38	1	0.77	312	7.22	7.22	0.91	0.915	31.60	31.60	36.3	34.80	2.54	2.435	41.3	41.28	54	49
M1	11/7/2023	Mid-Ebb	Sunny	Low	8:45	0.75	Middle	0.38	2			7.22		0.92		31.60		33.3		2.33		41.26		44	
M2	11/7/2023	Mid-Ebb	Sunny	Low	8:20	1	Middle	0.50	1	0.083	289	7.26	7.26	0.82	0.82	31.60	31.60	35.6	36.85	2.49	2.58	37.58	36.815	96	97
M2	11/7/2023	Mid-Ebb	Sunny	Low	8:20	1	Middle	0.50	2			7.26		0.82		31.60		38.1		2.67		36.05		98	
M3	11/7/2023	Mid-Ebb	Sunny	Low	8:13	1	Middle	0.50	1	0.123	265	7.32	7.31	0.7	0.7	30	30.00	45.7	46.30	3.43	3.465	23.4	23.45	94	93
M3	11/7/2023	Mid-Ebb	Sunny	Low	8:15	1	Middle	0.50	2			7.3		0.7		30		46.9		3.5		23.5		92	

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	49.4	53.5	81	112
M3(Impact Station)	3.28	3.14	74.3	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	114	123.5

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	13/7/2023	Mid-Flood	Sunny	Low	17:05	0.75	Middle	0.38	1	0.0835	177	7.19	7.18	0.78	0.77	32.40	32.40	34.9	36.40	2.45	2.55	34.24	34.475	22	21
M1	13/7/2023	Mid-Flood	Sunny	Low	17:05	0.75	Middle	0.38	2			7.17		0.76		32.40		37.9		2.65		34.71		19	
M2	13/7/2023	Mid-Flood	Sunny	Low	17:28	0.65	Middle	0.33	1	0.0935	185	7.16	7.16	1.25	1.255	32.50	32.50	38.7	38.65	2.71	2.705	41.93	42.075	31	33
M2	13/7/2023	Mid-Flood	Sunny	Low	17:28	0.65	Middle	0.33	2			7.16		1.26		32.50		38.6		2.7		42.22		35	
M3	13/7/2023	Mid-Flood	Sunny	Low	17:40	0.76	Middle	0.38	1	0.142	77	7.13	7.13	0.53	0.53	23.76	23.76	53.7	53.70	4.53	4.53	24.3	24.45	48	41
M3	13/7/2023	Mid-Flood	Sunny	Low	17:43	0.75	Middle	0.38	2			7.13		0.53		23.76		53.7		4.53		24.6		34	
M1	13/7/2023	Mid-Ebb	Sunny	Low	10:27	1	Middle	0.50	1	0.0905	289	7.35	7.35	1.28	1.335	32.10	32.10	44.3	44.10	3.1	3.085	47.55	47.09	22	23
M1	13/7/2023	Mid-Ebb	Sunny	Low	10:27	1	Middle	0.50	2			7.35		1.39		32.10		43.9		3.07		46.63		23	
M2	13/7/2023	Mid-Ebb	Sunny	Low	10:06	1.25	Middle	0.63	1	0.085	300	7.36	7.36	1.21	1.205	31.80	31.80	36	34.65	2.52	2.425	34.35	37.8	23	24
M2	13/7/2023	Mid-Ebb	Sunny	Low	10:07	1.25	Middle	0.63	2			7.35		1.20		31.80		33.3		2.33		41.25		25	
M3	13/7/2023	Mid-Ebb	Sunny	Low	10:00	0.87	Middle	0.44	1	0.141	269	7.26	7.26	0.45	0.45	25.56	25.56	54.4	54.40	3.59	3.59	40.8	40.65	26	28
M3	13/7/2023	Mid-Ebb	Sunny	Low	10:02	0.87	Middle	0.44	2			7.26		0.45		25.56		54.4		3.59		40.5		30	

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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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 Stage 1

**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	15/7/2023	Mid-Flood	Sunny	Low	19:06	1.1	Middle	0.55	1	0.0935	171	7.22	7.22	1.42	1.445	31.80	31.80	41.6	42.10	2.91	2.945	44.39	42.8	39	37
M1	15/7/2023	Mid-Flood	Sunny	Low	19:07	1.1	Middle	0.55	2			7.22		1.47		31.80		42.6		2.98		41.21		34	
M2	15/7/2023	Mid-Flood	Sunny	Low	19:22	1	Middle	0.50	1	0.091	176	7.18	7.18	1.38	1.375	31.60	31.55	41.5	41.90	2.9	2.93	31.79	32.1	30	29
M2	15/7/2023	Mid-Flood	Sunny	Low	19:22	1	Middle	0.50	2			7.18		1.37		31.50		42.3		2.96		32.41		27	
M3	15/7/2023	Mid-Flood	Sunny	Low	19:30	1	Middle	0.50	1	0.109	78	7.23	7.23	0.98	0.975	30.4	30.30	56.6	56.60	4.1	4.15	26.3	26.4	50	49
M3	15/7/2023	Mid-Flood	Sunny	Low	19:31	1	Middle	0.50	2			7.23		0.97		30.2		56.6		4.2		26.5		48	
M1	15/7/2023	Mid-Ebb	Sunny	Low	11:56	0.9	Middle	0.45	1	0.079	300	7.26	7.26	1.40	1.405	33.10	33.05	50.4	48.85	3.53	3.42	40.63	40.94	23	21
M1	15/7/2023	Mid-Ebb	Sunny	Low	11:57	0.9	Middle	0.45	2			7.25		1.41		33.00		47.3		3.31		41.25		19	
M2	15/7/2023	Mid-Ebb	Sunny	Low	11:43	1.1	Middle	0.55	1	0.0835	303	7.28	7.27	1.17	1.17	33.00	33.00	51.7	50.70	3.62	3.55	38.52	39.165	17	18
M2	15/7/2023	Mid-Ebb	Sunny	Low	11:44	1.1	Middle	0.55	2			7.26		1.17		33.00		49.7		3.48		35.5		18	
M3	15/7/2023	Mid-Ebb	Sunny	Low	11:40	1	Middle	0.50	1	0.098	279	7.34	7.35	1.2	1.2	29.3	37.80	37.6	37.65	3.6	3.6	30.8	30.65	17	20
M3	15/7/2023	Mid-Ebb	Sunny	Low	11:40	1	Middle	0.50	2			7.36		1.2		29.4		37.7		3.6		30.5		22	

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	51.4	55.6	81	112
M3(Impact Station)	3.28	3.14	74.3	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

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	18/7/2023	Mid-Flood	Cloudy	Low	8:09	1.4	Middle	0.70	1	0.0805	181	7.28	7.28	3.66	3.78	28.10	28.10	57.9	57.10	4.05	3.995	23.6	23.2	36	34
M1	18/7/2023	Mid-Flood	Cloudy	Low	8:09	1.4	Middle	0.70	2			7.27		3.90		28.10		56.3		3.94		22.8		32	
M2	18/7/2023	Mid-Flood	Cloudy	Low	8:37	1.25	Middle	0.63	1	0.0885	167	7.32	7.32	2.87	2.87	28.00	28.00	55.2	54.80	3.86	3.835	26.45	24.99	30	32
M2	18/7/2023	Mid-Flood	Cloudy	Low	8:39	1.25	Middle	0.63	2			7.31		2.87		28.00		54.4		3.81		23.53		34	
M3	18/7/2023	Mid-Flood	Cloudy	Low	8:44	1.2	Middle	0.60	1	0.098	84		0.00	2.1	2.1	27.5	27.45	49.8	49.40	4.3	4.4	33.5	33.65	35	37
M3	18/7/2023	Mid-Flood	Cloudy	Low	8:44	1.2	Middle	0.60	2					2.1		27.4		49		4.5		33.8		38	
M1	18/7/2023	Mid-Ebb	Cloudy	Low	14:08	1.2	Middle	0.60	1	0.0815	300	7.27	7.27	3.98	4.005	29.00	29.05	55.9	55.60	3.91	3.89	25.65	24.99	25	25
M1	18/7/2023	Mid-Ebb	Cloudy	Low	14:11	1.2	Middle	0.60	2			7.27		4.03		29.10		55.3		3.87		24.33		25	
M2	18/7/2023	Mid-Ebb	Cloudy	Low	13:47	0.9	Middle	0.45	1	0.0865	296	7.35	7.36	2.88	2.88	28.90	28.90	53.7	53.30	3.76	3.73	34.94	35.09	10	11
M2	18/7/2023	Mid-Ebb	Cloudy	Low	13:49	0.9	Middle	0.45	2			7.36		2.88		28.90		52.9		3.7		35.24		11	
M3	18/7/2023	Mid-Ebb	Cloudy	Low	13:35	1.4	Middle	0.70	1	0.0875	276		0.00	2.75	2.75	29	29.00	42.5	42.70	3.35	3.33	41.6	41.7	14	16
M3	18/7/2023	Mid-Ebb	Cloudy	Low	13:35	1.4	Middle	0.70	2					2.75		29		42.9		3.31		41.8		17	

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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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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 Stage 1

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	20/7/2023	Mid-Flood	Cloudy	Low	8:24	1.3	Middle	0.65	1	0.0975	167	7.34	7.34	5.12	5.12	28.10	28.10	35.2	35.0	2.46	2.455	42.89	43.235	101	101
M1	20/7/2023	Mid-Flood	Cloudy	Low	8:27	1.3	Middle	0.65	2			7.34		5.12		28.10		35.0		2.45		43.58			
M2	20/7/2023	Mid-Flood	Cloudy	Low	8:01	0.95	Middle	0.48	1	0.0855	175	7.37	7.37	3.69	3.695	28.10	28.10	33.5	34.20	2.34	2.39	33.52	33.03	80	80
M2	20/7/2023	Mid-Flood	Cloudy	Low	8:03	0.95	Middle	0.48	2			7.37		3.70		28.10		34.9		2.44		32.54			
M3	20/7/2023	Mid-Flood	Cloudy	Low	7:55	1	Middle	0.50	1	0.0985	89	7.5	7.45	2.1	2.15	29	29.00	44.7	44.80	3.91	3.915	35.6	35.8	90	88
M3	20/7/2023	Mid-Flood	Cloudy	Low	7:55	1	Middle	0.50	2			7.4		2.2		29		44.9		3.92		36			
M1	20/7/2023	Mid-Ebb	Cloudy	Low	15:03	1.2	Middle	0.60	1	0.0795	292	7.29	7.30	4.88	4.955	28.50	28.50	38.3	37.30	2.68	2.61	39.28	37.085	57	59
M1	20/7/2023	Mid-Ebb	Cloudy	Low	15:04	1.2	Middle	0.60	2			7.31		5.03		28.50		36.3		2.54		34.89			
M2	20/7/2023	Mid-Ebb	Cloudy	Low	15:29	0.8	Middle	0.40	1	0.0825	317	7.35	7.36	3.17	3.245	28.60	28.65	38.0	37.45	2.66	2.62	35.53	34.535	13	13
M2	20/7/2023	Mid-Ebb	Cloudy	Low	15:31	0.8	Middle	0.40	2			7.36		3.32		28.70		36.9		2.58		33.54			
M3	20/7/2023	Mid-Ebb	Cloudy	Low	15:36	1	Middle	0.50	1	0.099	258	7.56	7.56	2.4	2.45	27.9	27.90	43.7	43.65	3.31	3.305	35.4	35.45	20	19
M3	20/7/2023	Mid-Ebb	Cloudy	Low	15:36	1	Middle	0.50	2			7.55		2.5		27.9		43.6		3.3		35.5			

Remark 8:06

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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	51.9	56.2	121	131
M3(Impact Station)	3.28	3.14	74.3	78	121	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

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	22/7/2023	Mid-Flood	Sunny	Low	8:57	1.4	Middle	0.70	1	0.0885	182	7.46	7.46	4.11	4.1	29.10	29.05	44.6	45.05	3.12	3.15	37.62	33.68	79	76
M1	22/7/2023	Mid-Flood	Sunny	Low	8:58	1.4	Middle	0.70	2			7.46		4.09		29.00		45.5		3.18		29.74			
M2	22/7/2023	Mid-Flood	Sunny	Low	9:20	1.1	Middle	0.55	1	0.0895	177	7.38	7.38	3.57	3.56	28.90	28.90	45.9	45.85	3.21	3.205	36.69	37.23	60	59
M2	22/7/2023	Mid-Flood	Sunny	Low	9:21	1.1	Middle	0.55	2			7.38		3.55		28.90		45.8		3.2		37.77			
M3	22/7/2023	Mid-Flood	Sunny	Low	9:31	1	Middle	0.50	1	0.0885	91	7.55	7.56	2.3	2.3	30	30.00	45.6	45.60	3.45	3.45	30.2	30.35	93	92
M3	22/7/2023	Mid-Flood	Sunny	Low	9:31	1	Middle	0.50	2			7.56		2.3		30		45.6		3.45		30.5			
M1	22/7/2023	Mid-Ebb	Sunny	Low	16:33	1.3	Middle	0.65	1	0.07	297	7.36	7.36	4.32	4.315	29.70	29.70	44.5	46.85	3.11	3.275	44.1	43.695	53	52
M1	22/7/2023	Mid-Ebb	Sunny	Low	16:35	1.3	Middle	0.65	2			7.36		4.31		29.70		49.2		3.44		43.29			
M2	22/7/2023	Mid-Ebb	Sunny	Low	16:05	0.75	Middle	0.38	1	0.067	301	7.44	7.44	3.72	3.72	29.50	29.50	48.9	48.85	3.42	3.415	45.81	44.975	22	23
M2	22/7/2023	Mid-Ebb	Sunny	Low	16:06	0.75	Middle	0.38	2			7.44		3.72		29.50		48.8		3.41		44.14			
M3	22/7/2023	Mid-Ebb	Sunny	Low	16:01	1	Middle	0.50	1	0.076	282	7.5	7.54	3	3	28.9	28.90	43.9	43.40	3.31	3.315	40.3	40.3	24	25
M3	22/7/2023	Mid-Ebb	Sunny	Low	16:01	1	Middle	0.50	2			7.57		3		28.9		42.9		3.32		40.3			

Remark

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- Red and Bold: Limit Level Exceedance (For Impact Station Only)
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- Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
- Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.
- 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	52.4	91	112
M3(Impact Station)	3.28	3.14	74.3	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	51.2	55.4	59	68

Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	25/7/2023	Mid-Flood	Sunny	Low	11:25	1.1	Middle	0.55	1	0.078	189	7.34	7.34	2.27	2.275	29.90	29.90	34.5	34.10	2.41	2.385	25.27	24.615	39	38
M1	25/7/2023	Mid-Flood	Sunny	Low	11:26	1.1	Middle	0.55	2			7.33		2.28		29.90		33.7		2.36		23.96			
M2	25/7/2023	Mid-Flood	Sunny	Low	11:49	0.85	Middle	0.43	1	0.0925	179	7.36	7.37	1.18	1.18	30.50	30.50	50.9	50.95	3.56	3.565	14.98	14.975	22	23
M2	25/7/2023	Mid-Flood	Sunny	Low	11:50	0.85	Middle	0.43	2			7.37		1.18		30.50		51		3.57		14.97			
M3	25/7/2023	Mid-Flood	Sunny	Low	11:58	1.1	Middle	0.55	1	0.0875	84	7.45	7.50	1.2	1.2	29	29.00	42.2	42.35	4.82	4.865	25	25	34	31
M3	25/7/2023	Mid-Flood	Sunny	Low	11:58	1.1	Middle	0.55	2			7.55		1.2		29		42.5		4.91		25			
M1	25/7/2023	Mid-Ebb	Sunny	Low	17:59	1.3	Middle	0.65	1	0.072	275	7.22	7.22	2.42	2.39	29.30	29.30	39	38.75	2.73	2.71	23.99	24.195	20	21
M1	25/7/2023	Mid-Ebb	Sunny	Low	18:01	1.3	Middle	0.65	2			7.22		2.36		29.30		38.5		2.69		24.4			
M2	25/7/2023	Mid-Ebb	Sunny	Low	17:36	0.75	Middle	0.38	1	0.0655	287	7.28	7.28	1.66	1.665	29.40	29.40	43.9	44.10	3.07	3.085	24.88	24.43	23	22
M2	25/7/2023	Mid-Ebb	Sunny	Low	17:37	0.75	Middle	0.38	2			7.27		1.67		29.40		44.3		3.1		23.98			
M3	25/7/2023	Mid-Ebb	Sunny	Low	17:25	0.9	Middle	0.45	1	0.067	259	7.3	7.32	1	1	30	30.00	35.3	35.40	3.81	3.825	34	34.45	22	22
M3	25/7/2023	Mid-Ebb	Sunny	Low	19:25	0.9	Middle	0.45	2			7.34		1		30		35.5		3.84		34.9			

Remark

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- 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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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

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	27/7/2023	Mid-Flood	Sunny	Low	14:40	0.85	Middle	0.43	1	0.0835	180	7.25	7.26	2.42	2.43	29.90	29.90	40.3	40.40	2.82	2.825	25.63	25.815	19	19
M1	27/7/2023	Mid-Flood	Sunny	Low	14:41	0.85	Middle	0.43	2			7.26		2.44		29.90		40.5		2.83		26			
M2	27/7/2023	Mid-Flood	Sunny	Low	15:04	1.1	Middle	0.55	1	0.0905	166	7.18	7.19	1.94	1.915	30.10	30.10	46	46.05	3.22	3.225	33.67	33.81	28	30
M2	27/7/2023	Mid-Flood	Sunny	Low	15:05	1.1	Middle	0.55	2			7.2		1.89		30.10		46.1		3.23		33.95			
M3	27/7/2023	Mid-Flood	Sunny	Low	15:18	1	Middle	0.50	1	0.0875	92	7.34	7.34	1.1	1.1	29	29.00	43.9	43.55	4.26	4.245	30.9	30.85	20	21
M3	27/7/2023	Mid-Flood	Sunny	Low	15:18	1	Middle	0.50	2			7.34		1.1		29		43.2		4.23		30.8			
M1	27/7/2023	Mid-Ebb	Sunny	Low	8:26	1	Middle	0.50	1	0.08	307	7.34	7.35	2.44	2.405	29.90	29.90	43	43.10	3.01	3.015	25.87	25.57	25	26
M1	27/7/2023	Mid-Ebb	Sunny	Low	8:26	1	Middle	0.50	2			7.35		2.37		29.90		43.2		3.02		25.27			
M2	27/7/2023	Mid-Ebb	Sunny	Low	8:08	1.05	Middle	0.53	1	0.0855	283	7.39	7.39	2.08	2.035	30.10	30.10	42.5	42.55	2.97	2.975	34.44	34.16	45	44
M2	27/7/2023	Mid-Ebb	Sunny	Low	8:10	1.05	Middle	0.53	2			7.38		1.99		30.10		42.6		2.98		33.88			
M3	27/7/2023	Mid-Ebb	Sunny	Low	8:02	1	Middle	0.50	1	0.077	283	7.4	7.40	0.9	0.9	30.2	30.20	43.4	43.45	4.23	4.235	29.9	29.9	34	32
M3	27/7/2023	Mid-Ebb	Sunny	Low	8:01	1	Middle	0.50	2			7.4		0.9		30.2		43.5		4.24		29.9			

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	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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

**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	29/7/2023	Mid-Flood	Cloudy	Low	17:49	1.2	Middle	0.60	1	0.0935	200	7.33	7.34	2.36	2.375	29.20	29.20	53.9	54.00	3.77	3.775	38.96	39.07	99	98
M1	29/7/2023	Mid-Flood	Cloudy	Low	17:49	1.2	Middle	0.60	2			7.34		2.39		29.20		54.1		3.78		39.18		96	
M2	29/7/2023	Mid-Flood	Cloudy	Low	18:05	1.35	Middle	0.68	1	0.0945	175	7.26	7.26	2.33	2.335	29.40	29.40	49.9	50.05	3.49	3.5	40.11	40.17	72	71
M2	29/7/2023	Mid-Flood	Cloudy	Low	18:06	1.35	Middle	0.68	2			7.26		2.34		29.40		50.2		3.51		40.23		70	
M3	29/7/2023	Mid-Flood	Cloudy	Low	18:15	1.3	Middle	0.65	1	0.65	76	7.34	7.36	1.1	1.15	28.4	28.35	56.4	56.70	4.43	4.42	45.9	45.45	56	55
M3	29/7/2023	Mid-Flood	Cloudy	Low	18:16	1.3	Middle	0.65	2			7.38		1.2		28.3		57		4.41		45		54	
M1	29/7/2023	Mid-Ebb	Cloudy	Low	10:29	1.2	Middle	0.60	1	0.0765	296	7.32	7.32	2.49	2.485	28.60	28.60	52.8	52.45	3.69	3.665	40.4	40.505	58	57
M1	29/7/2023	Mid-Ebb	Cloudy	Low	10:30	1.2	Middle	0.60	2			7.32		2.48		28.60		52.1		3.64		40.61		55	
M2	29/7/2023	Mid-Ebb	Cloudy	Low	10:03	1.4	Middle	0.70	1	0.0745	309	7.25	7.26	1.98	2	28.90	28.90	49.8	50.00	3.48	3.495	36.99	37.01	26	27
M2	29/7/2023	Mid-Ebb	Cloudy	Low	10:04	1.4	Middle	0.70	2			7.26		2.02		28.90		50.2		3.51		37.03		28	
M3	29/7/2023	Mid-Ebb	Cloudy	Low	9:50	1.4	Middle	0.70	1	0.6	69	7.66	7.68	1.6	1.7	27.3	27.30	55.4	55.85	3.9	4.15	50.5	50.25	34	35
M3	29/7/2023	Mid-Ebb	Cloudy	Low	9:50	1.5	Middle	0.75	2			7.7		1.8		27.3		56.3		4.4		50		35	

Remark

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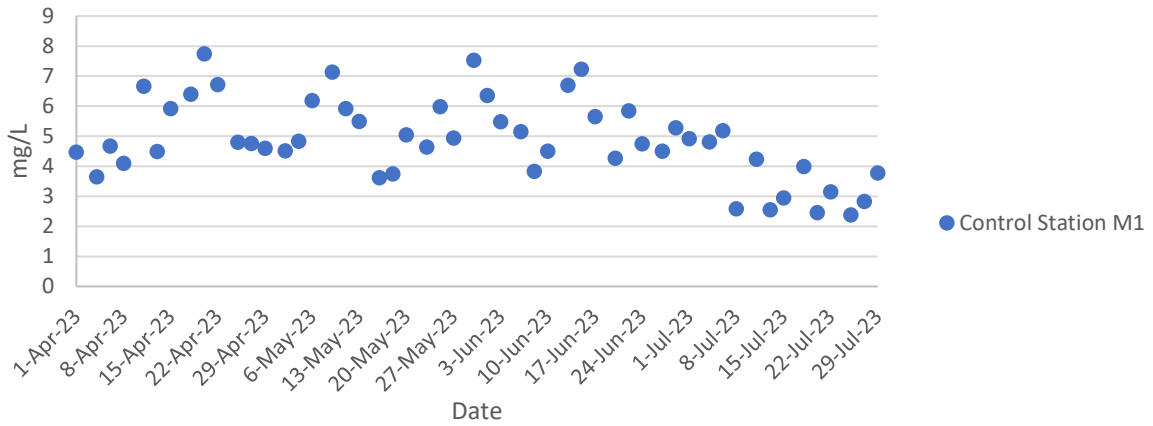
For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	46.9	52.4	117	127
M3(Impact Station)	3.28	3.14	74.3	78	117	167

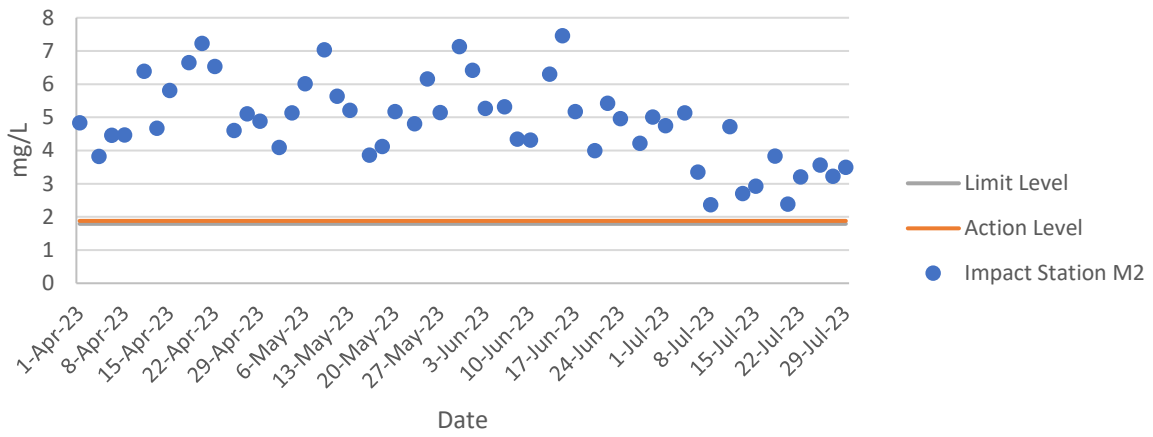
For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	52.4	56.7	59	68

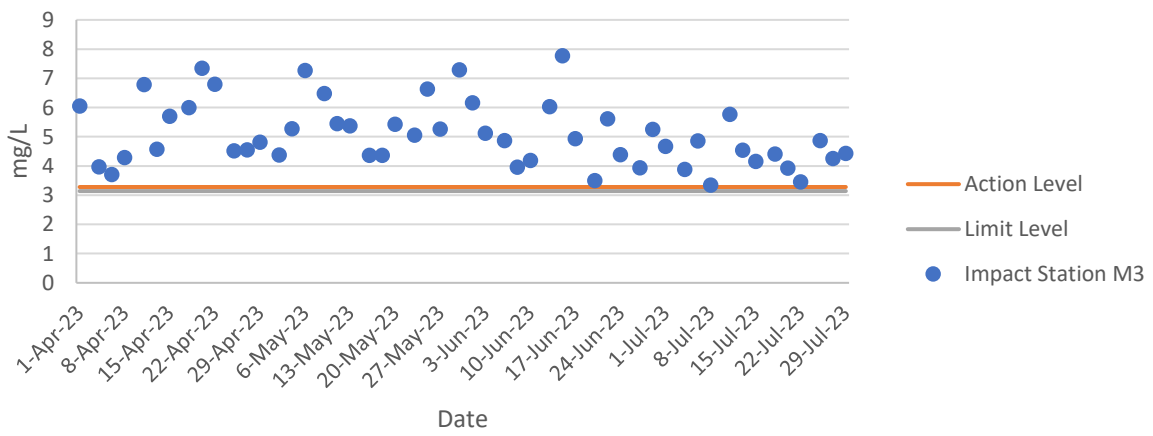
### Dissolved Oxygen at Mid-Flood Tide



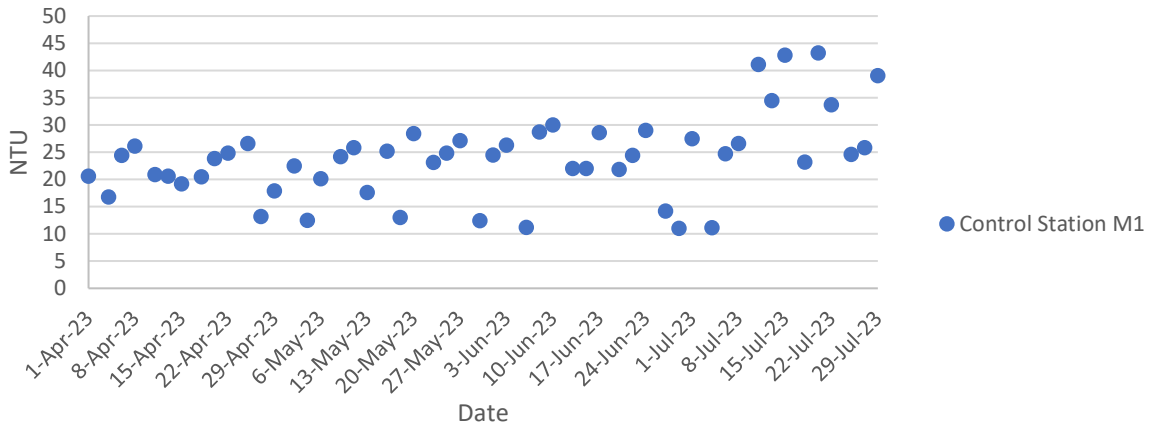
### Dissolved Oxygen at Mid-Flood Tide



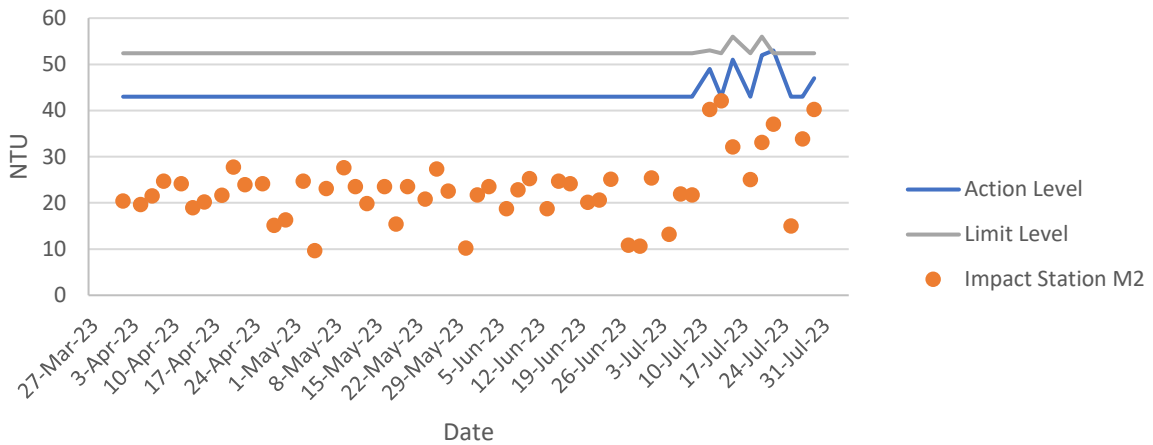
### Dissolved Oxygen at Mid-Flood Tide



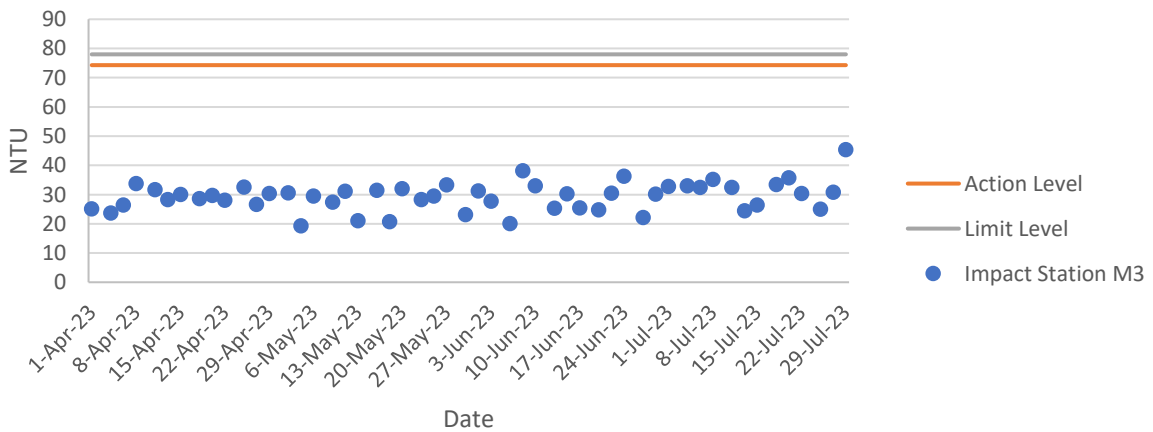
### Turbidity at Mid-Flood Tide



### Turbidity at Mid-Flood Tide

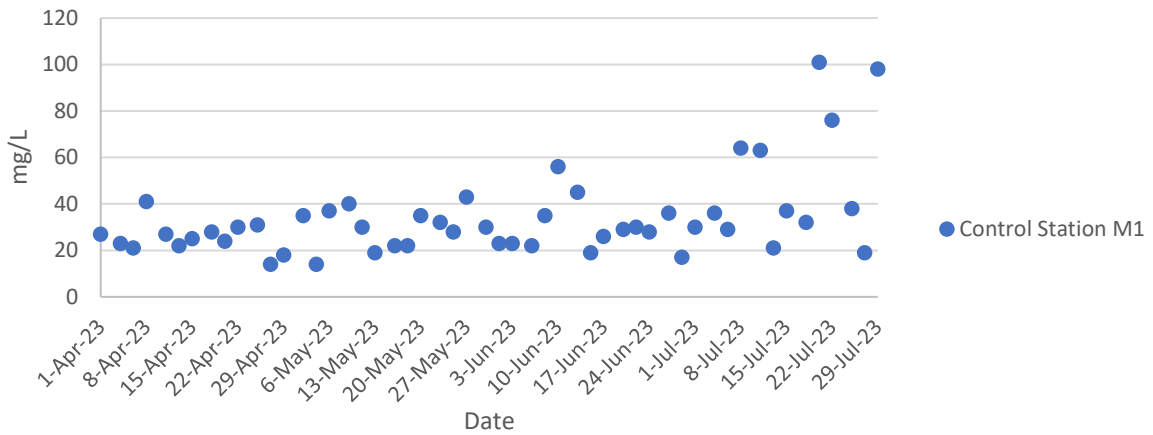


### Turbidity at Mid-Flood Tide

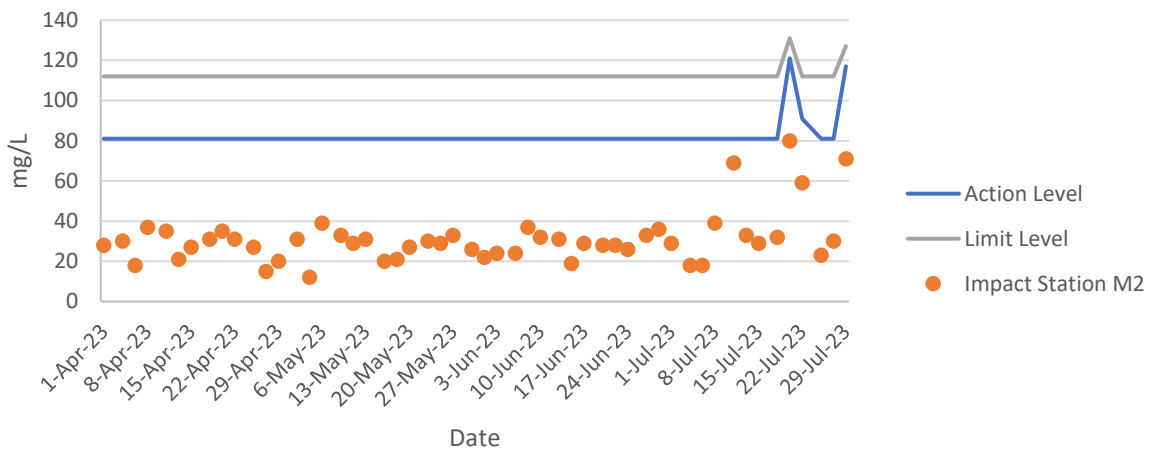




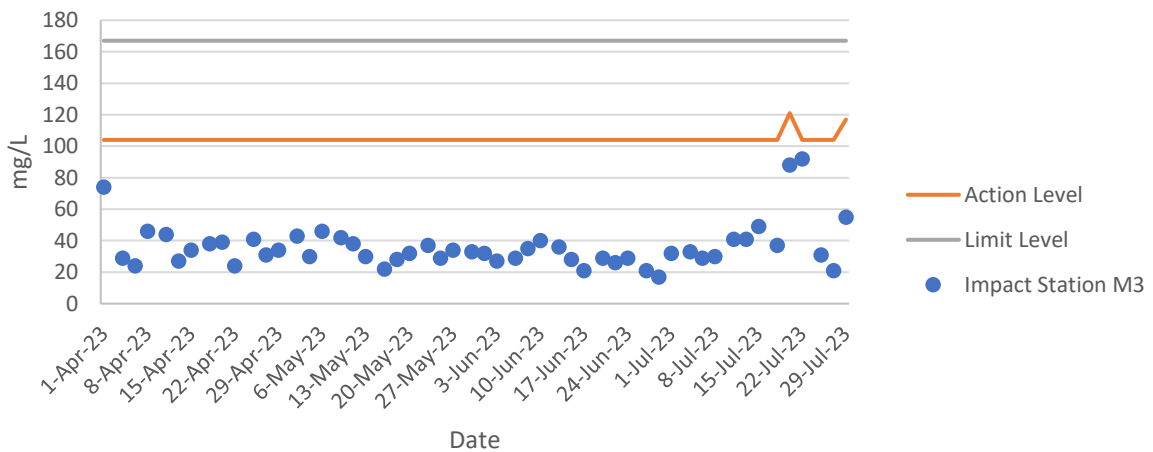
### Total Suspended Solids at Mid-Flood Tide



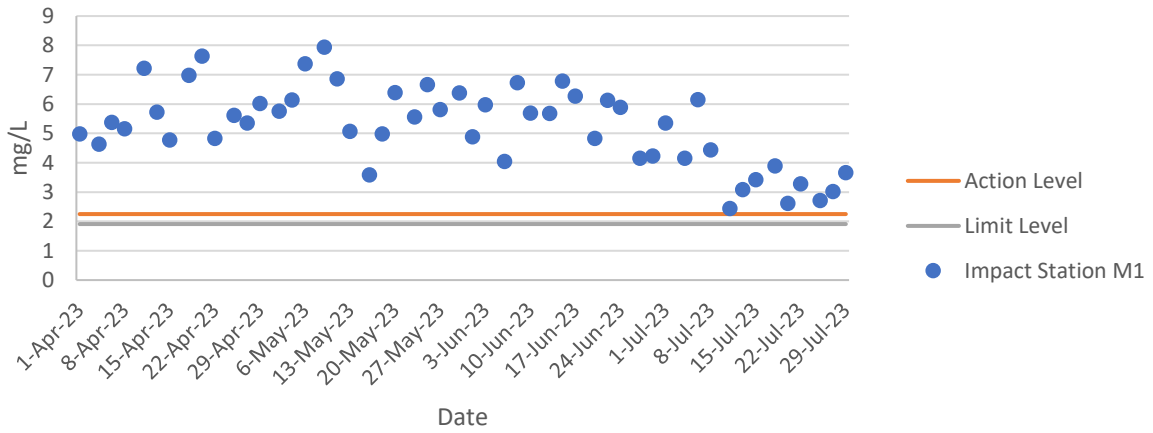
### Total Suspended Solids at Mid-Flood Tide



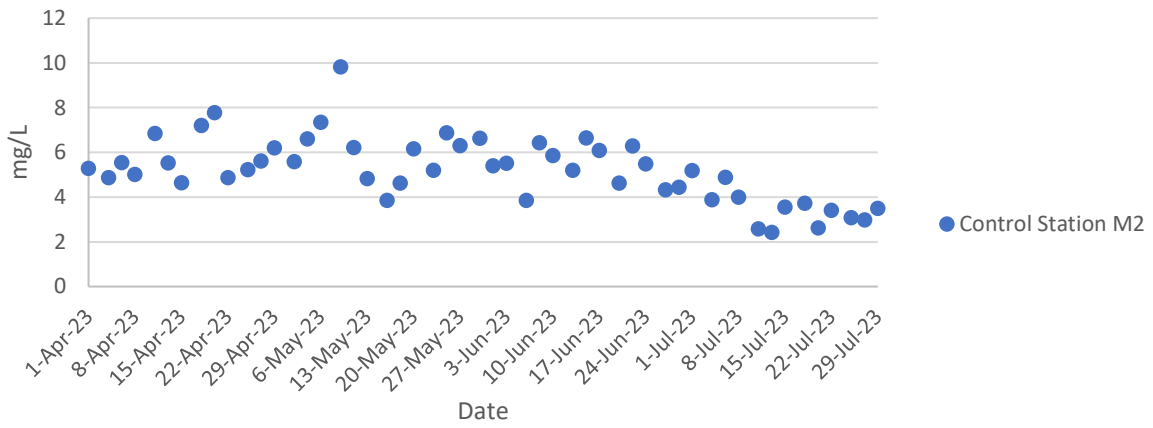
### Total Suspended Solids at Mid-Flood Tide



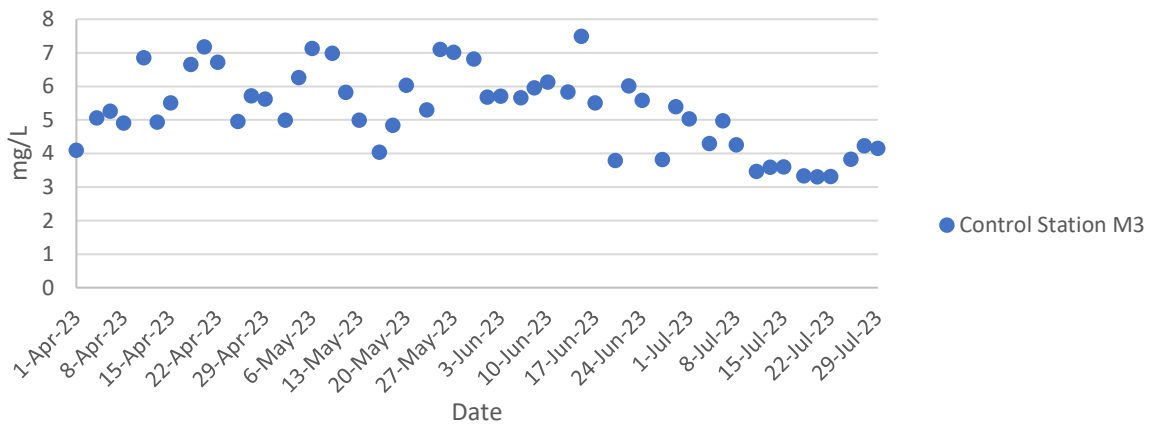
### Dissolved Oxygen at Mid-Ebb Tide



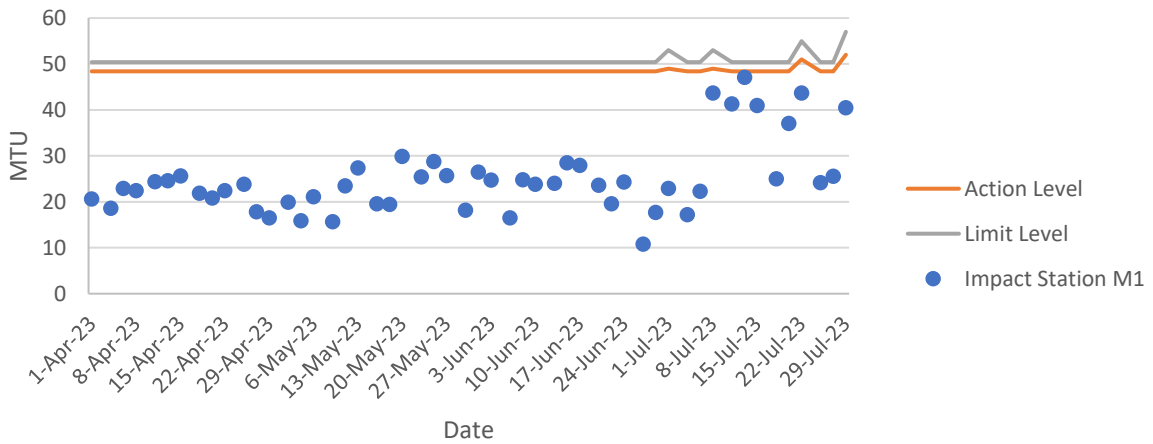
### Dissolved Oxygen at Mid-Ebb Tide



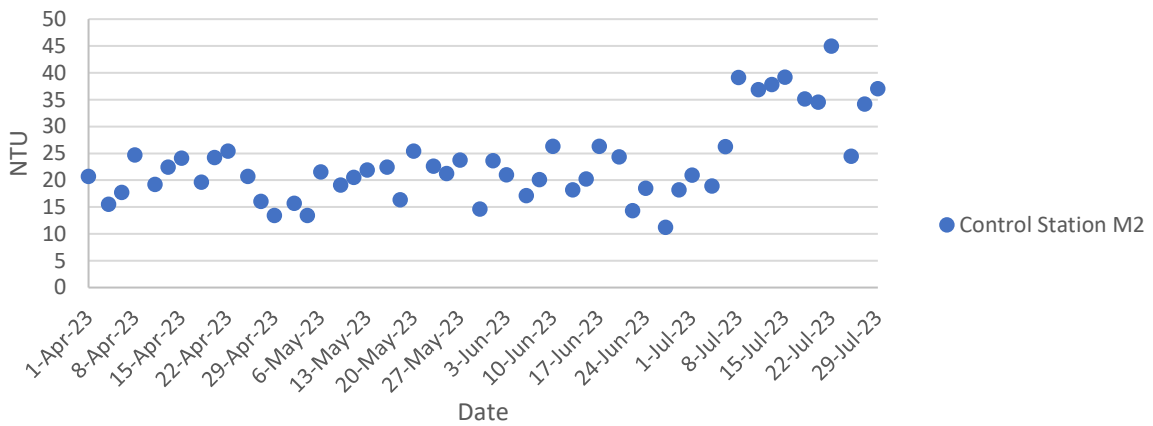
### Dissolved Oxygen at Mid-Ebb Tide



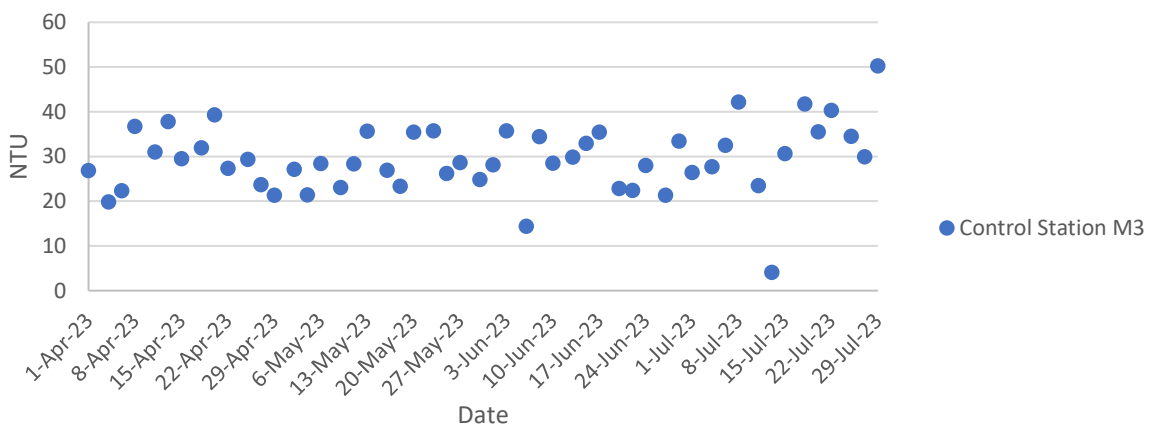
### Turbidity at Mid-Ebb Tide



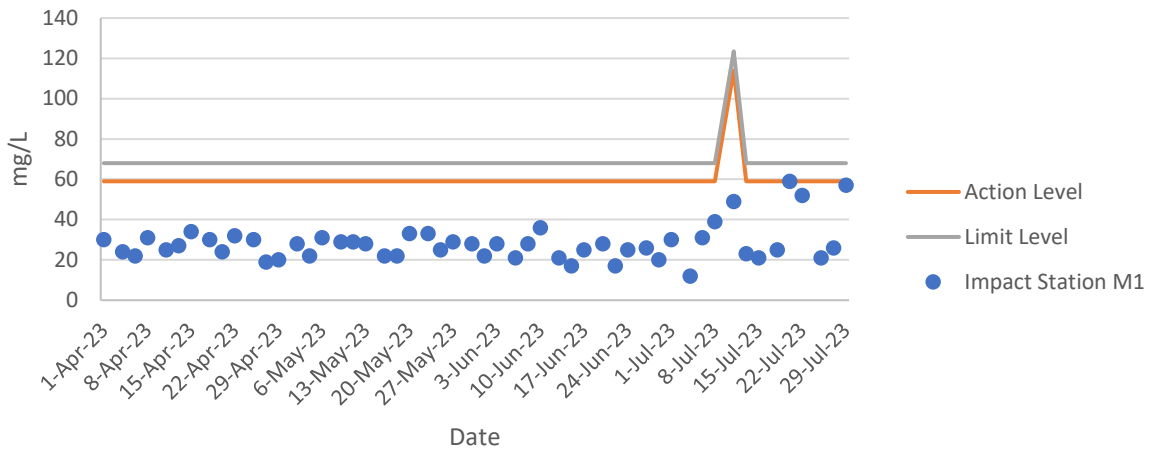
### Turbidity at Mid-Ebb Tide



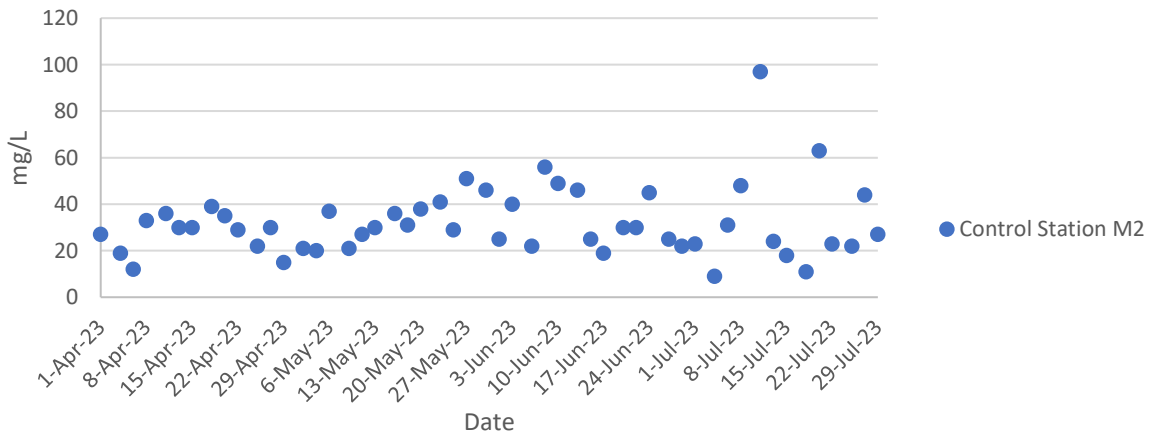
### Turbidity at Mid-Ebb Tide



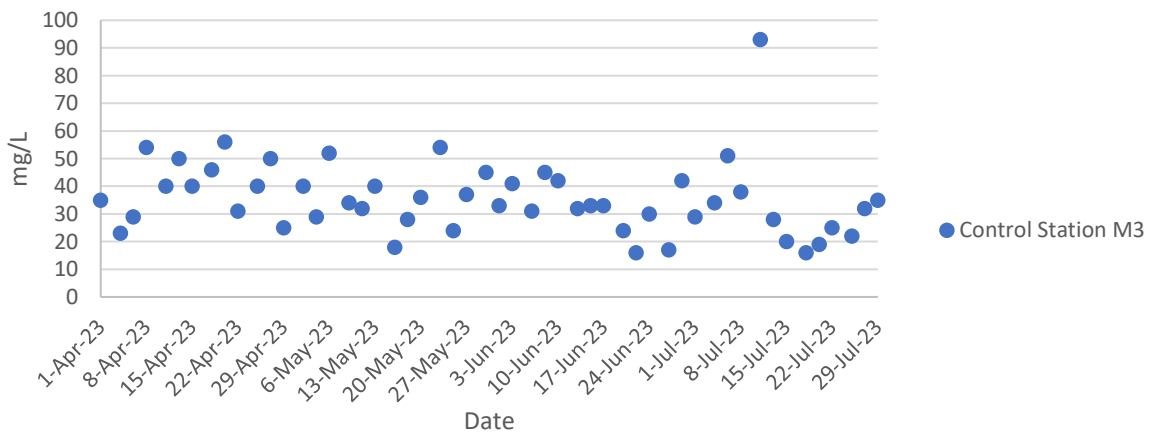
### Total Suspended Solids at Mid-Ebb Tide



### 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 July 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 <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>10</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	2	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R		Class II	Vulnerable	LC	LC	Y	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	4	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	6	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Barn Swallow	<i>Hirundo rustica</i>	1	Abundant	PM, SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Greater Coucal	<i>Centropus sinensis</i>	2	Common	R		Class II	Vulnerable	LC	LC	Y	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Swinhoe's white-eye	<i>Zosterops simplex</i>	5	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Yellow-Bellied Prinia	<i>Prinia flaviventris</i>	2	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Masked laughingthrush	<i>Pterorhinus perspicillatus</i>	4	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Plain Prinia	<i>Prinia flaviventris</i>	3	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Pond-NSW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove-NSW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Transect	NSW	Mangrove-NSW	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)			LC	LC	Y	Y

## Appendix F.1 Ecological Bird Monitoring Result (25 July 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 <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>10</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/07/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Swinhoe's white-eye	<i>Zosterops simplex</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Yellow-Bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	7	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Pond-NSW	Yellow-Bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Plain Prinia	<i>Prinia flaviventris</i>	4	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Swinhoe's white-eye	<i>Zosterops simplex</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Pond-NSW	Masked laughingthrush	<i>Pterorhinus perspicillatus</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R				LC	LC	N	Y
25/07/2023	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
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Barn Swallow	<i>Hirundo rustica</i>	2	Abundant	PM, SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R		Class II	Vulnerable	LC	LC	Y	N
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Mangrove-NSW	Plain Prinia	<i>Prinia flaviventris</i>	2	Common	R				LC	LC	N	N



## Appendix F.1 Ecological Bird Monitoring Result (25 July 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 <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>10</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	7	Abundant	PM, SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R		Class II	Vulnerable	LC	LC	Y	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Yellow-Bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Plain Prinia	<i>Prinia flaviventris</i>	5	Common	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	10	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Black-winged Stilt	<i>Himantopus himantopus</i>	5	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Little Ringed Plover	<i>Charadrius dubius</i>	1	Common	WV, PM				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Common Redshank	<i>Tringa totanus</i>	6	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Black-winged Stilt	<i>Himantopus himantopus</i>	5	Common	PM	RC			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Little Ringed Plover	<i>Charadrius dubius</i>	3	Common	WV, PM				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM, SV				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R				LC	LC	N	N



## Appendix F.1 Ecological Bird Monitoring Result (25 July 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 <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>10</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	2	Common	R				LC	LC	N	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	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
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Nighttime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Greater Coucal	<i>Centropus sinensis</i>	2	Common	R		Class II	Vulnerable	LC	LC	Y	N
25/07/2023	Nighttime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Yellow-Bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R				LC	LC	N	N
25/07/2023	Nighttime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R				LC	LC	N	N
25/07/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)			LC	LC	Y	Y
25/07/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Large-billed Crow Waterhen	<i>Corvus macrorhynchos</i>	1	Common	R				LC	LC	N	N
25/07/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Nighttime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)			LC	LC	Y	Y
25/07/2023	Nighttime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	White-breasted Waterhen	<i>Amauromis phoenicurus</i>	1	Common	R				LC	LC	N	Y
25/07/2023	Nighttime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)			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): 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 July 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Halcyon smyrnensis</i>	3	0.027027027	-3.610917913	-0.09759238	0.352398059
<i>Spilopelia chinensis</i>	5	0.045045045	-3.100092289	-0.1396438	0.432908658
<i>Amauornis phoenicurus</i>	7	0.063063063	-2.763620052	-0.17428235	0.481650185
<i>Egretta garzetta</i>	9	0.081081081	-2.512305624	-0.20370046	0.511757801
<i>Hirundo rustica</i>	6	0.054054054	-2.917770732	-0.15771734	0.460183029
<i>Ardeola bacchus</i>	17	0.153153153	-1.876316857	-0.28736384	0.539185623
<i>Centropus sinensis</i>	2	0.018018018	-4.016383021	-0.07236726	0.290654641
<i>Ardea alba</i>	1	0.009009009	-4.709530201	-0.0424282	0.199816889
<i>Zosterops simplex</i>	2	0.018018018	-4.016383021	-0.07236726	0.290654641
<i>Prinia flaviventris</i>	2	0.018018018	-4.016383021	-0.07236726	0.290654641
<i>Pterorhinus perspicillatus</i>	2	0.018018018	-4.016383021	-0.07236726	0.290654641
<i>Pycnonotus sinensis</i>	7	0.063063063	-2.763620052	-0.17428235	0.481650185
<i>Motacilla alba</i>	2	0.018018018	-4.016383021	-0.07236726	0.290654641
<i>Prinia flaviventris</i>	13	0.117117117	-2.144580844	-0.25116713	0.538648207
<i>Copsychus saularis</i>	5	0.045045045	-3.100092289	-0.1396438	0.432908658
<i>Tringa totanus</i>	10	0.09009009	-2.406945108	-0.2168419	0.521926554
<i>Himantopus himantopus</i>	10	0.09009009	-2.406945108	-0.2168419	0.521926554
<i>Charadrius dubius</i>	4	0.036036036	-3.32323584	-0.11975625	0.39797825
<i>Corvus macrorhynchos</i>	1	0.009009009	-4.709530201	-0.0424282	0.199816889
<i>Acridotheres cristatellus</i>	1	0.009009009	-4.709530201	-0.0424282	0.199816889
<i>Dicrurus macrocercus</i>	1	0.009009009	-4.709530201	-0.0424282	0.199816889
<i>Gallinula chloropus</i>	1	0.045454545	-3.091042453	-0.14050193	0.434297429
Total	111	1.036445536	-74.93752107	-2.85088451	8.359959955
Richness	22				
SS	8.360				
SQ	8.128				
H	2.851				
S <sup>2</sup> H	0.003				

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

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Egretta garzetta</i>	9	0.1836735	-1.6945957	-0.3112523	0.5274468
<i>Ardeola bacchus</i>	17	0.3469388	-1.058607	-0.3672718	0.3887965
<i>Centropus sinensis</i>	2	0.0408163	-3.1986731	-0.1305581	0.4176126
<i>Ardea alba</i>	1	0.0204082	-3.8918203	-0.0794249	0.3091075
<i>Tringa totanus</i>	10	0.2040816	-1.5892352	-0.3243337	0.5154426
<i>Himantopus himantopus</i>	10	0.2040816	-1.5892352	-0.3243337	0.5154426
Total	49	1	-13.022167	-1.5371745	2.6738485
Richness	6				
SS	2.674				
SQ	2.363				
H	1.54				
S <sup>2</sup> H	0.007				

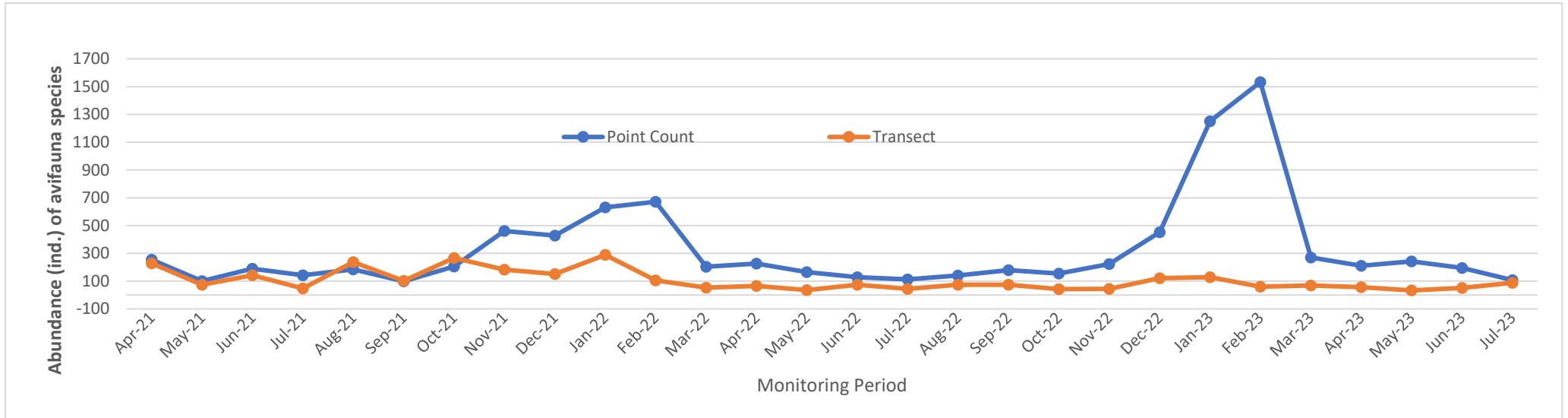
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (25 July 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Spilopelia chinensis</i>	9	0.1011236	-2.2914118	-0.2317158	0.53095631
<i>Acridotheres cristatellus</i>	1	0.01123596	-4.4886364	-0.05043412	0.22638041
<i>Amaurornis phoenicurus</i>	4	0.04494382	-3.102342	-0.1394311	0.43256296
<i>Egretta garzetta</i>	2	0.02247191	-3.7954892	-0.08529189	0.32372445
<i>Hirundo rustica</i>	8	0.08988764	-2.4091948	-0.21655684	0.52172762
<i>Ardeola bacchus</i>	2	0.02247191	-3.7954892	-0.08529189	0.32372445
<i>Centropus sinensis</i>	6	0.06741573	-2.6968769	-0.18181193	0.49032438
<i>Ardea alba</i>	1	0.01123596	-4.4886364	-0.05043412	0.22638041
<i>Zosterops simplex</i>	5	0.05617978	-2.8791985	-0.16175272	0.46571819
<i>Gracupica nigricollis</i>	3	0.03370787	-3.3900241	-0.11427047	0.38737966
<i>Prinia flaviventris</i>	4	0.04494382	-3.102342	-0.1394311	0.43256296
<i>Dicrurus macrocercus</i>	1	0.01123596	-4.4886364	-0.05043412	0.22638041
<i>Pterorhinus perspicillatus</i>	4	0.04494382	-3.102342	-0.1394311	0.43256296
<i>Pycnonotus sinensis</i>	6	0.06741573	-2.6968769	-0.18181193	0.49032438
<i>Motacilla alba</i>	3	0.03370787	-3.3900241	-0.11427047	0.38737966
<i>Prinia flaviventris</i>	12	0.13483146	-2.0037297	-0.2701658	0.54133925
<i>Gallinula chloropus</i>	1	0.01123596	-4.4886364	-0.05043412	0.22638041
<i>Copsychus saularis</i>	5	0.05617978	-2.8791985	-0.16175272	0.46571819
<i>Tringa totanus</i>	2	0.02247191	-3.7954892	-0.08529189	0.32372445
<i>Passer montanus</i>	10	0.11235955	-2.1860513	-0.24562374	0.53694609
Total	89	1	-65.470626	-2.75563787	7.99219763
Richness	20				
SS	7.992				
SQ	7.594				
H	2.76				
S <sup>2</sup> H	0.006				

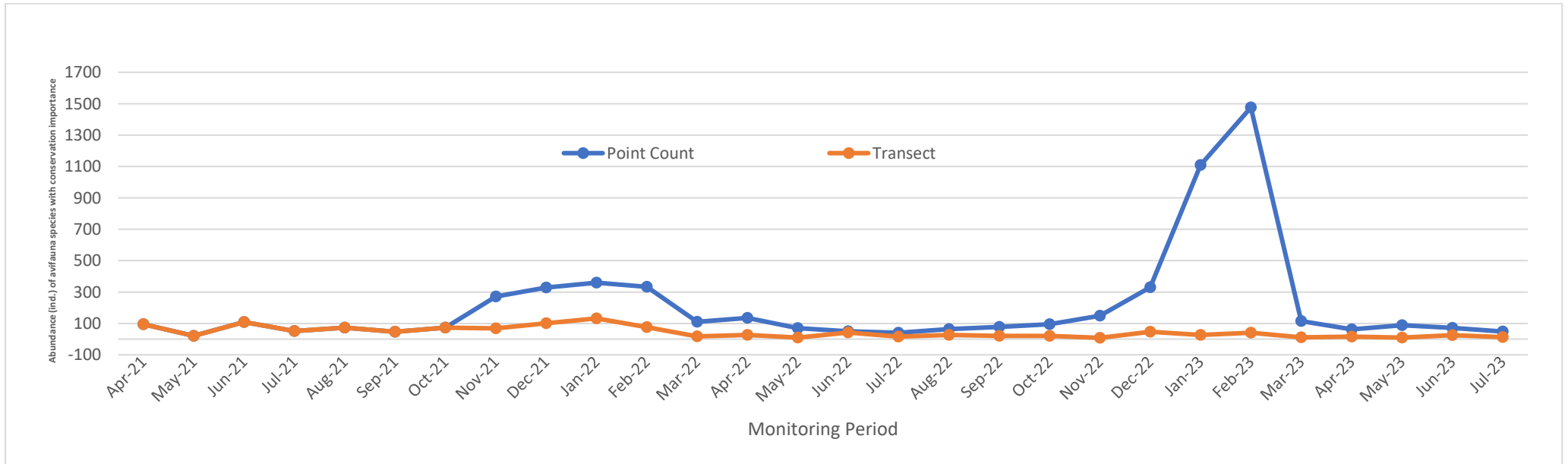
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (25 July 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
<i>Egretta garzetta</i>	2	0.1538462	-1.871802	-0.2879696	0.5390221
<i>Ardeola bacchus</i>	2	0.1538462	-1.871802	-0.2879696	0.5390221
<i>Centropus sinensis</i>	6	0.4615385	-0.77319	-0.3568569	0.2759181
<i>Ardea alba</i>	1	0.0769231	-2.564949	-0.1973038	0.5060742
<i>Tringa totanus</i>	2	0.1538462	-1.871802	-0.2879696	0.5390221
Total	13	1	-8.953546	-1.4180694	2.3990586
Richness	5				
SS	2.399				
SQ	2.011				
H	1.42				
S <sup>2</sup> H	0.042				

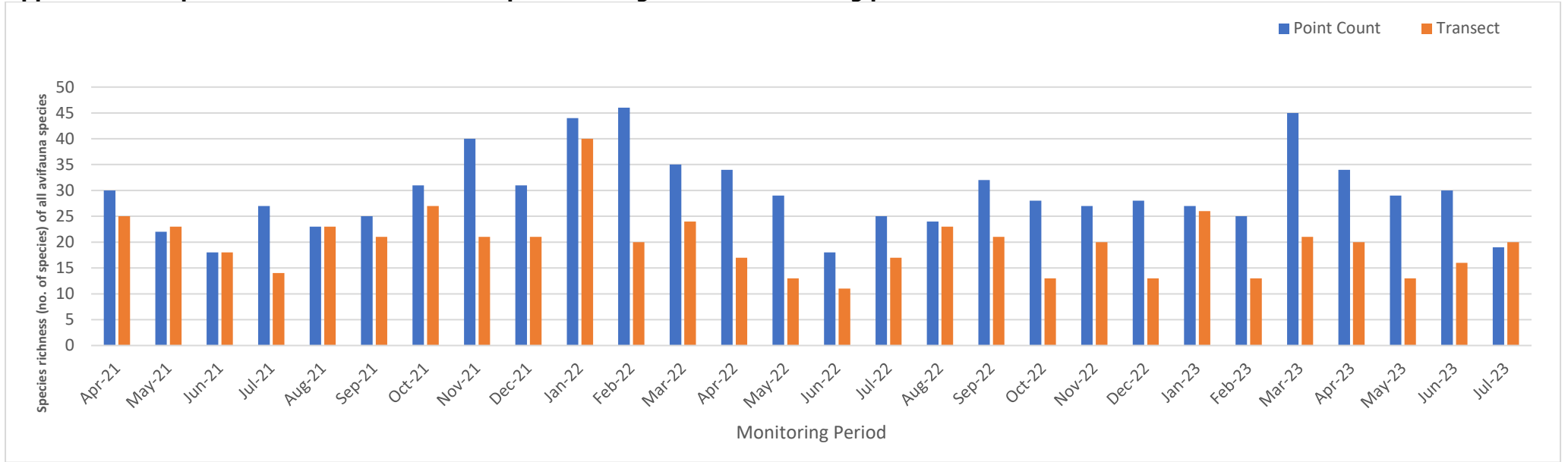
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



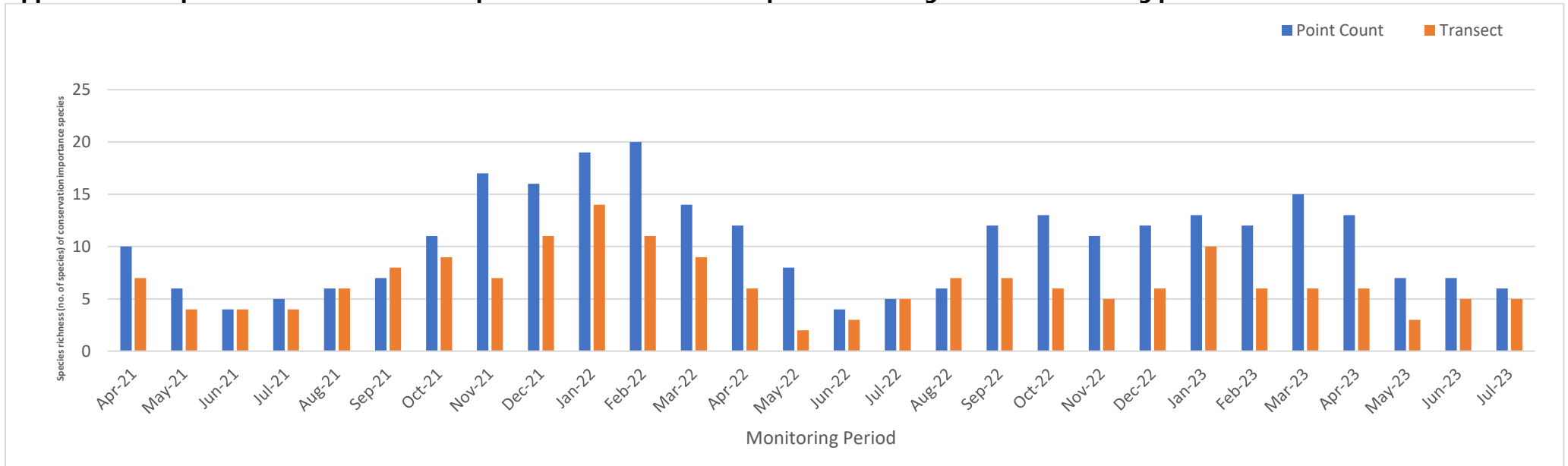
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



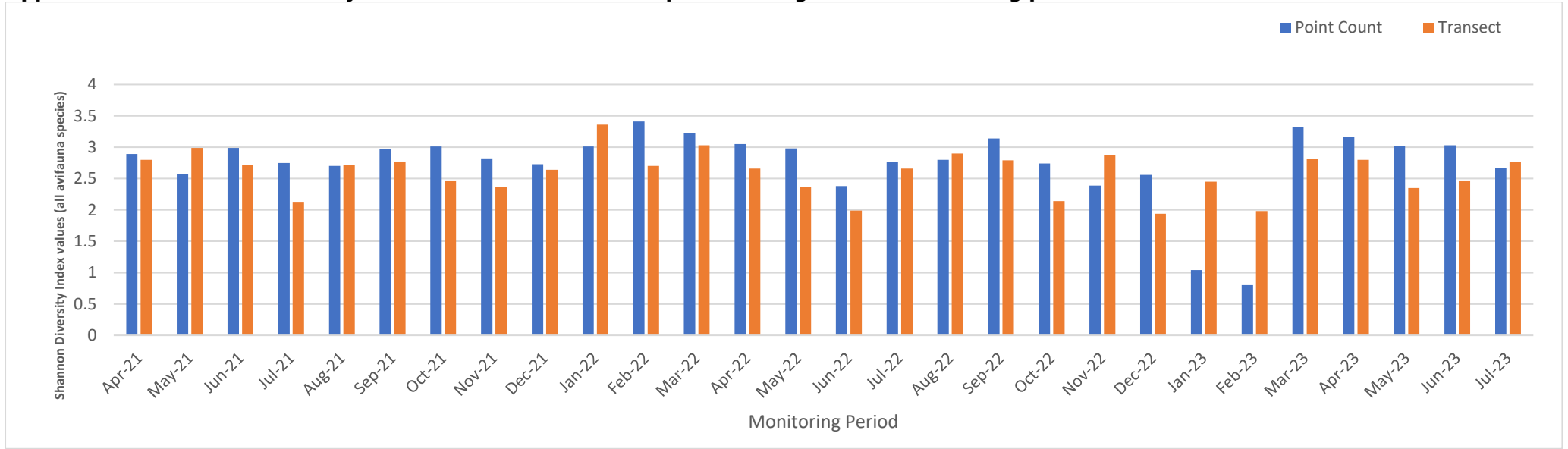
### Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



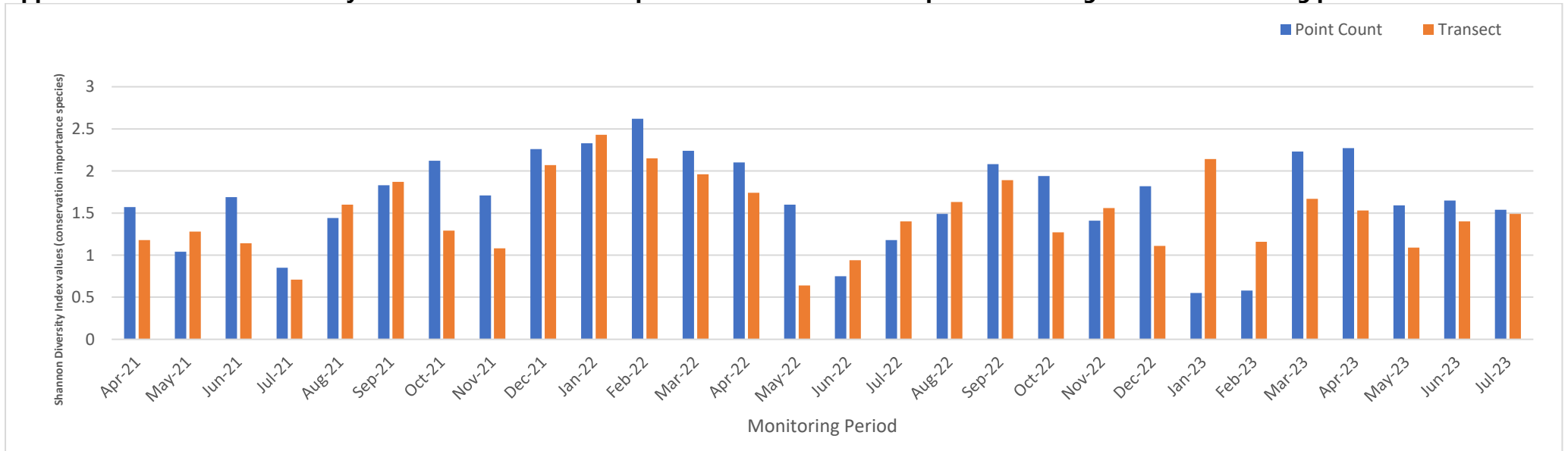
### Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



### 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	July2023
Total	172	111
Richness	29	22
H	2.99	2.85
S <sup>2</sup> <sub>H</sub>	0.004	0.003
t	1.661	
df	281.440	
Crit	1.968	
p	0.098	
CI	0.126	0.110

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

Months	July 2017	July 2023
Total	36	89
Richness	18	20
H	0.93	2.76
S <sup>2</sup> <sub>H</sub>	0.060	0.006
t	7.123	
df	43.385	
Crit	2.017	
p	0.000	
CI	0.490	0.155

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

Months	July 2017	July 2023
Total	80	49
Richness	5	6
H	1.36	1.54
$S^2_H$	0.004	0.007
t	1.716	
df	100.833	
Crit	1.984	
p	0.089	
CI	0.126	0.167

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

Months	July 2017	July2023
Total	8	13
Richness	3	5
H	0.90	1.42
$S^2_H$	0.060	0.042
t	1.628	
df	17.764	
Crit	2.110	
p	0.122	
CI	0.490	0.410