

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 (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
5/09/2023	sunny	09:33	61	66	63	291	500
11/09/2023	sunny	11:04	67	70	68		
16/09/2023	sunny	10:53	62	68	64		
22/09/2023	sunny	13:26	68	72	63		
28/09/2023	sunny	14:41	67	69	70		
		Min	61				
		Max	72				
		Average	67				

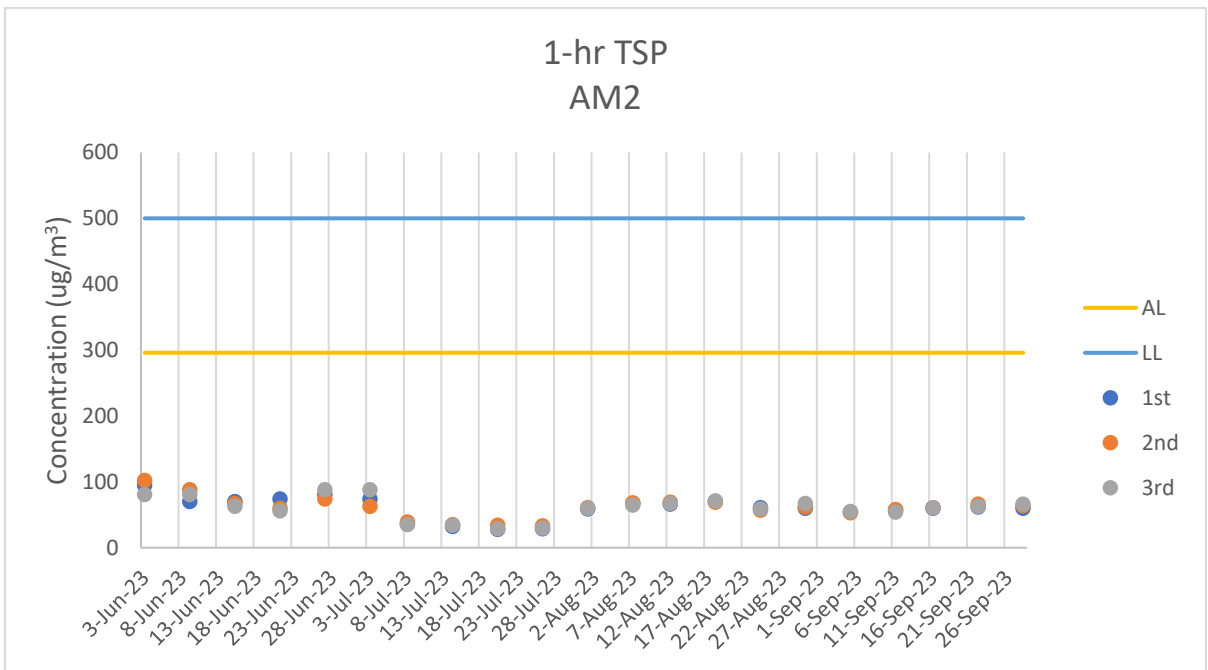
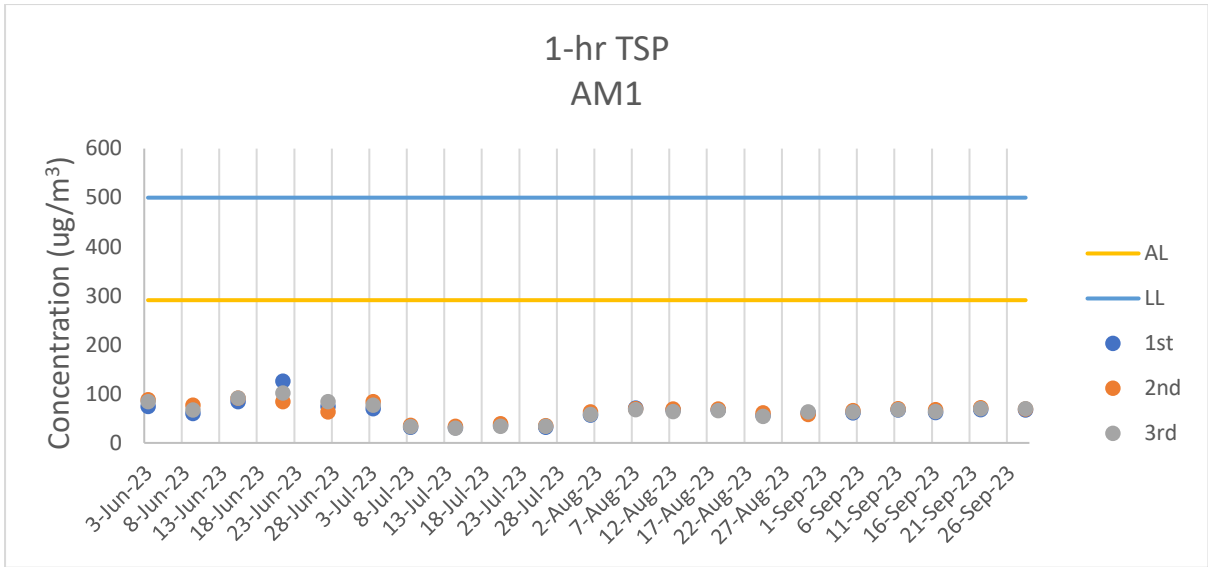
AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
5/09/2023	sunny	12:52	54	53	55	296	500
11/09/2023	sunny	07:44	57	58	54		
16/09/2023	sunny	14:16	60	61	61		
22/09/2023	sunny	09:43	62	66	63		
28/09/2023	sunny	10:39	60	64	66		
		Min	53				
		Max	66				
		Average	60				

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 _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/09/2023	15:24	65	66	54	1.7	sunny	75
11/09/2023	9:52	67	68	58	1	sunny	75
22/09/2023	9:16	61	63	61	1.4	sunny	75
28/09/2023	10:49	67	69	64	2	sunny	75
	Max	67					
	Min	61					

CM2 - Squatter house to the west of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/09/2023	11:29	63	65	59	1.9	sunny	75
11/09/2023	11:23	65	67	62	1.8	sunny	75
22/09/2023	10:31	65	68	62	1.67	sunny	75
28/09/2023	12:06	64	68	63	1.56	sunny	75
	Max	65					
	Min	63					

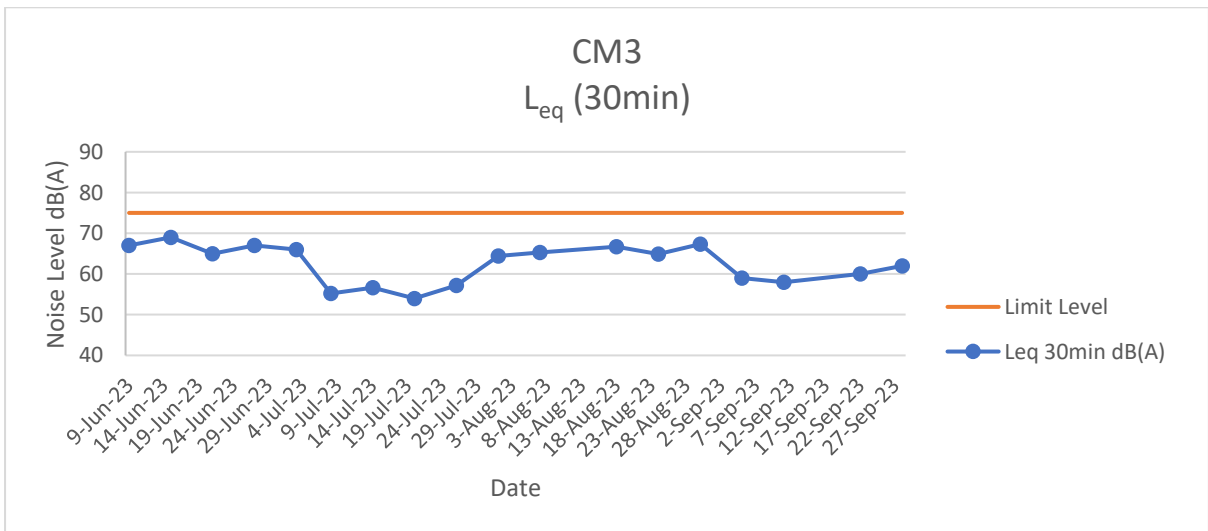
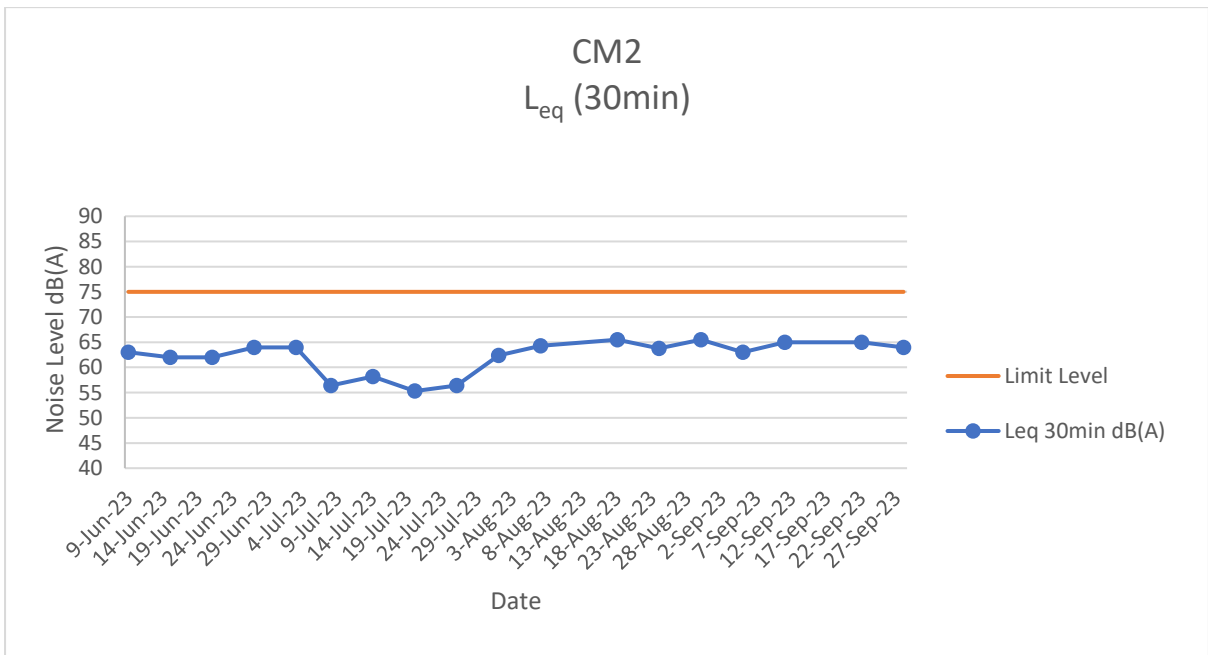
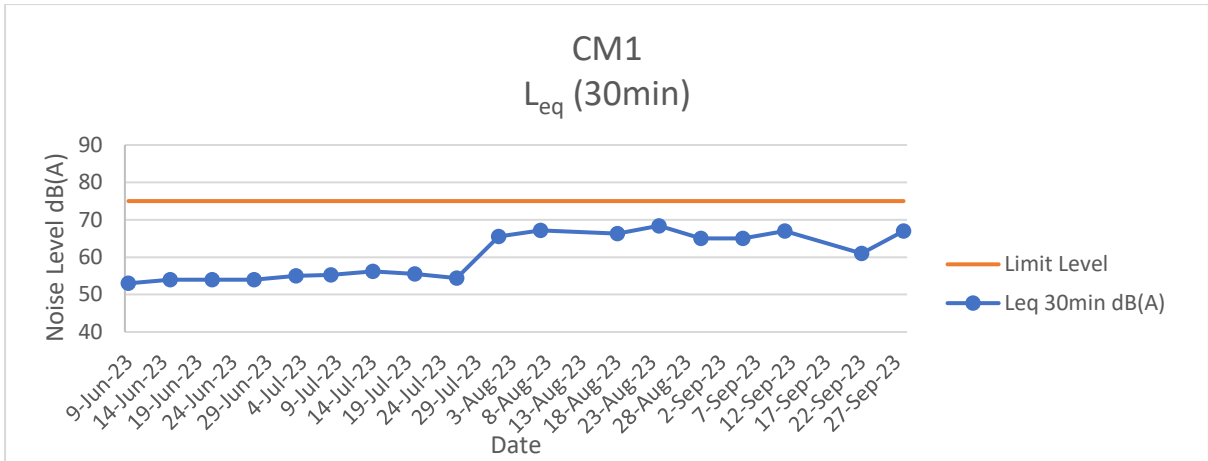
CM3 - Squatter house to the east of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
5/09/2023	13:53	59	64	57	2	sunny	75
11/09/2023	12:13	58	67	57	1.8	sunny	75
22/09/2023	11:42	60	65	58	2.4	sunny	75
28/09/2023	12:54	62	65	63	2.1	sunny	75
	Max	62					
	Min	58					

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	4/9/2023	Mid-Flood	Cloudy	Low	9:56	2.6	M	1.30	1	0.08	179.325	7.22	7.22	2.49	2.46	28.5	28.50	38.3	38.84	2.88	2.92	37.48	37.385	28	29
M1	4/9/2023	Mid-Flood	Cloudy	Low	9:56	2.6	M	1.30	2			7.21		2.42		28.5		39.4		2.96		37.29			
M2	4/9/2023	Mid-Flood	Cloudy	Low	10:15	2.4	M	1.20	1	0.085	169.624	7.18	7.19	2.66	2.68	28.5	28.50	37.1	36.31	2.79	2.73	38.71	38.505	22	23
M2	4/9/2023	Mid-Flood	Cloudy	Low	10:15	2.4	M	1.20	2			7.2		2.69		28.5		35.5		2.67		38.3			
M3	4/9/2023	Mid-Flood	Cloudy	Low	10:50	1.9	M	0.95	1	0.088	266.847	7.6	7.65	4.9	4.85	28.9	28.90	77.9	78.30	5.94	5.95	26	26.4	25	26
M3	4/9/2023	Mid-Flood	Cloudy	Low	10:51	1.9	M	0.95	2			7.7		4.8		28.9		78.7		5.95		26.8		27	
M1	4/9/2023	Mid-Ebb	Cloudy	Low	16:11	2.2	M	1.10	1	0.059	323.417	7.2	7.19	2.54	2.56	28.7	28.75	35.0	35.58	2.63	2.68	38.98	38.815	23	23
M1	4/9/2023	Mid-Ebb	Cloudy	Low	16:12	2.2	M	1.10	2			7.18		2.58		28.8		36.2		2.72		38.65			
M2	4/9/2023	Mid-Ebb	Cloudy	Low	15:56	2.1	M	1.05	1	0.064	322.533	7.18	7.18	2.69	2.68	28.7	28.75	34.8	34.05	2.62	2.56	37.66	37.495	30	29
M2	4/9/2023	Mid-Ebb	Cloudy	Low	15:56	2.1	M	1.05	2			7.18		2.67		28.8		33.3		2.5		37.33			
M3	4/9/2023	Mid-Ebb	Cloudy	Low	15:09	2	M	1.00	1	0.07	79.114	7.19	7.19	5.4	5.45	29.8	29.80	61.8	61.85	4.93	4.94	34.3	34.45	29	28
M3	4/9/2023	Mid-Ebb	Cloudy	Low	15:10	2	M	1.00	2			7.19		5.5		29.8		61.9		4.94		34.6		27	

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	44.9	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	6/9/2023	Mid-Flood	Cloudy	Low	11:43	2.9	M	1.45	1	0.086	186.46	7.26	7.26	2.88	2.87	28.1	28.15	35.4	34.71	2.66	2.61	38.28	38.36	24	25
M1	6/9/2023	Mid-Flood	Cloudy	Low	11:43	2.9	M	1.45	2			7.26		2.86		28.2		34.0		2.56		38.44		25	
M2	6/9/2023	Mid-Flood	Cloudy	Low	11:59	2.8	M	1.40	1	0.079	171.948	7.27	7.27	2.97	2.95	28.0	28.00	37.0	36.11	2.78	2.715	39.11	38.99	28	27
M2	6/9/2023	Mid-Flood	Cloudy	Low	12:00	2.8	M	1.40	2			7.27		2.92		28		35.2		2.65		38.87		26	
M3	6/9/2023	Mid-Flood	Cloudy	Low	12:39	2.1	M	1.05	1	0.071	262.664	7.5	7.52	3.01	3.01	28.7	28.35	69	68.95	5.47	5.48	22.3	22.45	30	30
M3	6/9/2023	Mid-Flood	Cloudy	Low	12:35	2.1	M	1.05	2			7.53		3.01		28		68.9		5.49		22.6		29	
M1	6/9/2023	Mid-Ebb	Cloudy	Low	17:33	2.7	M	1.35	1	0.08	307.705	7.3	7.29	3.04	3.07	27.8	27.80	33.9	34.51	2.55	2.595	39.51	39.355	23	24
M1	6/9/2023	Mid-Ebb	Cloudy	Low	17:34	2.7	M	1.35	2			7.28		3.09		27.8		35.1		2.64		39.2		24	
M2	6/9/2023	Mid-Ebb	Cloudy	Low	17:11	2.8	M	1.40	1	0.076	329.744	7.35	7.36	3.07	3.08	27.6	27.65	35.1	34.78	2.64	2.615	40.61	40.445	51	51
M2	6/9/2023	Mid-Ebb	Cloudy	Low	17:11	2.8	M	1.40	2			7.37		3.09		27.7		34.4		2.59		40.28		50	
M3	6/9/2023	Mid-Ebb	Cloudy	Low	16:22	2.2	M	1.10	1	0.068	77.134	7.45	7.45	3.04	3.05	27.9	27.90	53.1	53.05	4.27	4.28	39	39.4	18	19
M3	6/9/2023	Mid-Ebb	Cloudy	Low	16:20	2.2	M	1.10	2			7.44		3.05		27.9		53		4.29		39.8		20	

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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	46.0	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	51.9	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	11/9/2023	Mid-Flood	Sunny	Low	16:08	2.2	M	1.10	1	0.082	170.81	7.11	7.11	2.99	2.95	28.9	28.90	41.4	40.57	3.11	3.05	26.77	26.74	46	45
M1	11/9/2023	Mid-Flood	Sunny	Low	16:08	2.2	M	1.10	2			7.1	7.13	2.91	2.845	28.9	28.95	39.8	39.8	2.99	3.05	26.71	26.74	44	45
M2	11/9/2023	Mid-Flood	Sunny	Low	16:29	2.1	M	1.05	1	0.093	177.26	7.13	7.13	2.89	2.845	28.9	28.95	43.1	43.56	3.24	3.275	27.50	27.415	45	44
M2	11/9/2023	Mid-Flood	Sunny	Low	16:29	2.1	M	1.05	2			7.13	7.13	2.8	2.845	29	29.9	44.0	43.56	3.31	3.275	27.33	27.415	43	44
M3	11/9/2023	Mid-Flood	Sunny	Low	17:00	1.6	M	0.80	1	0.098	266.784	7.16	7.16	3.2	3.2	29.9	29.85	61.7	61.80	5.13	5.145	19.5	19.55	40	42
M3	11/9/2023	Mid-Flood	Sunny	Low	17:01	1.7	M	0.85	2			7.16	7.16	3.2	3.2	29.8	29.85	61.9	61.80	5.16	5.145	19.6	19.55	43	42
M1	11/9/2023	Mid-Ebb	Sunny	Low	11:04	1.8	M	0.90	1	0.077	303.455	7.15	7.15	2.67	2.64	29.1	29.15	39.8	40.43	2.99	3.04	28.44	28.235	41	43
M1	11/9/2023	Mid-Ebb	Sunny	Low	11:05	1.8	M	0.90	2			7.15	7.15	2.61	2.64	29.2	29.15	41.1	40.43	3.09	3.04	28.03	28.235	44	43
M2	11/9/2023	Mid-Ebb	Sunny	Low	11:29	1.9	M	0.95	1	0.08	310.692	7.18	7.18	2.73	2.69	29.2	29.25	42.4	43.09	3.19	3.24	28.59	28.575	15	15
M2	11/9/2023	Mid-Ebb	Sunny	Low	11:30	1.9	M	0.95	2			7.18	7.18	2.65	2.69	29.3	29.25	43.8	43.09	3.29	3.24	28.56	28.575	15	15
M3	11/9/2023	Mid-Ebb	Sunny	Low	12:00	1.6	M	0.80	1	0.087	79.657	7.19	7.20	2.65	2.65	29.4	29.45	54.5	55.60	4.23	4.27	29.6	29.7	19	18
M3	11/9/2023	Mid-Ebb	Sunny	Low	12:01	1.6	M	0.80	2			7.2	7.20	2.65	2.65	29.5	29.45	56.7	55.60	4.31	4.27	29.8	29.7	17	18

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	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	13/9/2023	Mid-Flood	Cloudy	Low	17:21	2.5	M	1.25	1	0.079	189.64	6.95	1.22	1.195	27.5	27.55	35.0	35.58	2.63	2.675	38.41	38.54	83	82	
M1	13/9/2023	Mid-Flood	Cloudy	Low	17:21	2.5	M	1.25	2			6.94	6.95		1.17	1.195	27.6	27.55	36.2	35.58	2.72	2.675	38.67	38.54	80
M2	13/9/2023	Mid-Flood	Cloudy	Low	17:48	2.4	M	1.20	1	0.081	162.874	6.98	1.36	1.4	27.5	27.50	36.6	36.44	2.75	2.74	38.82	38.83	64	63	
M2	13/9/2023	Mid-Flood	Cloudy	Low	17:49	2.4	M	1.20	2			6.99	6.99		1.44	1.4	27.5	27.50	36.3	36.44	2.73	2.74	38.84	38.83	62
M3	13/9/2023	Mid-Flood	Cloudy	Low	18:10	2	M	1.00	1	0.086	263.587	7.12	1.33	1.33	28.3	28.45	79.3	78.90	6.09	6.085	24.5	25.1	69	71	
M3	13/9/2023	Mid-Flood	Cloudy	Low	18:12	2	M	1.00	2			7.14	7.13		1.33	1.33	28.6	28.45	78.5	78.90	6.08	6.085	25.7	25.1	73
M1	13/9/2023	Mid-Ebb	Cloudy	Low	12:27	2.1	M	1.05	1	0.077	306.331	6.84	6.84	1.44	1.44	27.8	27.80	36.3	36.18	2.73	2.72	38.27	38.06	57	57
M1	13/9/2023	Mid-Ebb	Cloudy	Low	12:27	2.5	M	1.25	2			6.84	6.84	1.44	1.44	27.8	27.80	36.0	36.18	2.71	2.72	37.85	38.06	56	57
M2	13/9/2023	Mid-Ebb	Cloudy	Low	12:53	2.4	M	1.20	1	0.063	338.302	6.88	6.89	1.55	1.525	27.8	27.85	34.3	34.31	2.58	2.58	37.55	37.715	17	19
M2	13/9/2023	Mid-Ebb	Cloudy	Low	12:53	2.4	M	1.20	2			6.89	6.89	1.5	1.525	27.9	27.85	34.3	34.31	2.58	2.58	37.88	37.715	20	19
M3	13/9/2023	Mid-Ebb	Cloudy	Low	13:20	2.2	M	1.10	1	0.057	82.664	7	7.12	1.67	1.635	27.4	27.70	54.6	54.26	4.38	4.415	40.3	40.65	28	28
M3	13/9/2023	Mid-Ebb	Cloudy	Low	13:23	2	M	1.00	2			7.23	7.12	1.6	1.635	28	27.70	53.928	54.26	4.45	4.415	41	40.65	27	28

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.

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	46.2	52.4	98	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	50.9	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	15/9/2023	Mid-Flood	Cloudy	Low	8:50	2.7	M	1.35	1	0.079	170.641	6.8	6.81	1.27	1.245	27.5	27.55	39.0	37.97	2.93	2.855	34.49	34.39	31	32
M1	15/9/2023	Mid-Flood	Cloudy	Low	8:50	2.7	M	1.35	2			6.82		1.22		27.6		37.0		2.78		34.29		32	
M2	15/9/2023	Mid-Flood	Cloudy	Low	9:22	2.6	M	1.30	1	0.077	166.837	6.79	6.79	1.33	1.32	27.5	27.55	38.3	39.04	2.88	2.935	32.42	32.33	31	30
M2	15/9/2023	Mid-Flood	Cloudy	Low	9:22	2.6	M	1.30	2			6.78		1.31		27.6		39.8		2.99		32.24		29	
M3	15/9/2023	Mid-Flood	Cloudy	Low	9:30	2.1	M	1.05	1	0.071	258.66	7.1	7.11	1.22	1.225	27.2	27.15	56.5	56.70	4.22	4.225	21.22	21.23	27	28
M3	15/9/2023	Mid-Flood	Cloudy	Low	9:31	2.1	M	1.05	2			7.11		1.23		27.1		56.9		4.23		21.24		28	
M1	15/9/2023	Mid-Ebb	Cloudy	Low	13:59	2.6	M	1.30	1	0.079	313.919	6.9	6.90	1.40	1.365	27.6	27.65	37.4	37.77	2.81	2.84	34.80	34.95	26	26
M1	15/9/2023	Mid-Ebb	Cloudy	Low	14:01	2.6	M	1.30	2			6.89		1.33		27.7		38.2		2.87		35.1		25	
M2	15/9/2023	Mid-Ebb	Cloudy	Low	13:33	2.4	M	1.20	1	0.076	344.078	6.88	6.88	1.48	1.525	27.6	27.60	33.8	33.92	2.54	2.55	35.75	35.77	9	9
M2	15/9/2023	Mid-Ebb	Cloudy	Low	13:33	2.4	M	1.20	2			6.88		1.57		27.6		34.0		2.56		35.79		8	
M3	15/9/2023	Mid-Ebb	Cloudy	Low	12:30	2.1	M	1.05	1	0.069	77.39	7.09	7.11	1.6	1.61	27.7	27.65	54.5	54.65	4.03	4.065	36.2	36.5	11	11
M3	15/9/2023	Mid-Ebb	Cloudy	Low	12:31	2.1	M	1.05	2			7.12		1.62		27.6		54.8		4.1		36.8		10	

Remark

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/9/2023	Mid-Flood	Cloudy	Low	8:51	2.5	M	1.25	1	0.084	166.859	6.7	6.70	0.65	0.615	28.2	28.20	37.1	37.37	2.79	2.81	15.15	15.205	29	28
M1	18/9/2023	Mid-Flood	Cloudy	Low	8:51	2.5	M	1.25	2			6.69		0.58		28.2		37.6		2.83		15.26			
M2	18/9/2023	Mid-Flood	Cloudy	Low	9:22	2.3	M	1.15	1	0.081	163.12	6.9	6.89	0.77	0.81	28.2	28.20	33.9	33.45	2.55	2.515	16.01	15.915	27	28
M2	18/9/2023	Mid-Flood	Cloudy	Low	9:22	2.3	M	1.15	2			6.88		0.85		28.2		33.0		2.48		15.82			
M3	18/9/2023	Mid-Flood	Cloudy	Low	9:45	2	M	1.00	1	0.074	266.34	7.34	7.37	0.99	0.985	34.3	34.55	56.6	56.75	4.5	4.53	14.5	14.8	23	23
M3	18/9/2023	Mid-Flood	Cloudy	Low	9:46	2	M	1.00	2			7.39		0.98		34.8		56.9		4.56		15.1			
M1	18/9/2023	Mid-Ebb	Cloudy	Low	15:21	2.1	M	1.05	1	0.068	316.325	6.8	6.79	0.79	0.745	28.3	28.35	35.6	34.85	2.68	2.62	15.49	15.62	31	31
M1	18/9/2023	Mid-Ebb	Cloudy	Low	15:21	2.1	M	1.05	2			6.78		0.7		28.4		34.0		2.56		15.75			
M2	18/9/2023	Mid-Ebb	Cloudy	Low	14:58	1.9	M	0.95	1	0.076	311.765	6.71	6.71	0.89	0.935	28.3	28.30	36.8	37.57	2.77	2.825	17.17	17.185	37	37
M2	18/9/2023	Mid-Ebb	Cloudy	Low	14:59	1.9	M	0.95	2			6.7		0.98		28.3		38.3		2.88		17.2			
M3	18/9/2023	Mid-Ebb	Cloudy	Low	14:44	1.9	M	0.95	1	0.084	80.36	7.02	7.05	0.97	0.96	29	29.20	69.4	68.80	5.75	5.7	24.6	24.8	33	34
M3	18/9/2023	Mid-Ebb	Cloudy	Low	14:45	1.9	M	0.95	2			7.08		0.95		29.4		68.2		5.65		25			

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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	20/9/2023	Mid-Flood	Sunny	Low	10:11	2.5	M	1.25	1	0.095	163.3	7.44	7.45	0.85	0.895	29.5	29.50	37.9	38.50	2.85	2.895	40.39	40.31	57	51
M1	20/9/2023	Mid-Flood	Sunny	Low	10:11	2.5	M	1.25	2			7.46		0.94		29.5		39.1		2.94		40.23		45	
M2	20/9/2023	Mid-Flood	Sunny	Low	10:48	2.3	M	1.15	1	0.094	190.318	7.32	7.33	0.99	1	29.5	29.50	40.0	39.30	3.01	2.955	41.26	41.4	48	43
M2	20/9/2023	Mid-Flood	Sunny	Low	10:49	2.3	M	1.15	2			7.33		1.01		29.5		38.6		2.9		41.54		38	
M3	20/9/2023	Mid-Flood	Sunny	Low	11:08	2	M	1.00	1	0.085	79.64	7.93	7.94	0.98	0.985	30.2	30.60	53.6	53.90	4.52	4.54	25.7	26	67	63
M3	20/9/2023	Mid-Flood	Sunny	Low	11:09	2	M	1.00	2			7.95		0.99		31		54.2		4.56		26.3		59	
M1	20/9/2023	Mid-Ebb	Sunny	Low	16:30	2.5	M	1.25	1	0.062	316.922	7.27	7.27	1.08	1.095	29.6	29.65	37.5	37.31	2.82	2.805	35.41	35.33	56	56
M1	20/9/2023	Mid-Ebb	Sunny	Low	16:31	2.5	M	1.25	2			7.26		1.11		29.7		37.1		2.79		35.25		55	
M2	20/9/2023	Mid-Ebb	Sunny	Low	15:54	2.4	M	1.20	1	0.07	340.75	7.2	7.21	1.21	1.24	29.6	29.65	39.8	39.83	2.99	2.995	38.95	38.79	24	24
M2	20/9/2023	Mid-Ebb	Sunny	Low	15:54	2.4	M	1.20	2			7.21		1.27		29.7		39.9		3		38.63		24	
M3	20/9/2023	Mid-Ebb	Sunny	Low	15:22	1.8	M	0.90	1	0.079	268.21	7.84	7.87	1.12	1.13	29.5	29.60	72.7	72.90	5.45	5.465	37.68	37.695	35	31
M3	20/9/2023	Mid-Ebb	Sunny	Low	15:23	1.8	M	0.90	2			7.9		1.14		29.7		73.1		5.48		37.71		27	

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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	48.4	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/9/2023	Mid-Flood	Sunny	Low	13:09	2.8	M	1.40	1	0.086	162.988	7.21	7.20	0.86	0.905	29.6	29.65	39.5	38.57	2.97	2.9	35.41	35.24	25	25
M1	22/9/2023	Mid-Flood	Sunny	Low	13:09	2.8	M	1.40	2			7.19		0.95		29.7		37.6		2.83		35.07			
M2	22/9/2023	Mid-Flood	Sunny	Low	13:48	2.6	M	1.30	1	0.087	173.245	7.2	7.19	0.90	0.94	29.6	29.60	41.6	40.83	3.13	3.07	35.88	35.74	28	32
M2	22/9/2023	Mid-Flood	Sunny	Low	13:49	2.6	M	1.30	2			7.18		0.98		29.6		40.0		3.01		35.6			
M3	22/9/2023	Mid-Flood	Sunny	Low	14:00	2	M	1.00	1	0.093	258.259	7.34	7.40	0.96	0.965	29.7	29.75	52.8	52.35	4.46	4.42	34.54	34.875	34	36
M3	22/9/2023	Mid-Flood	Sunny	Low	14:02	2	M	1.00	2			7.45		0.97		29.8		51.9		4.38		35.21			
M1	22/9/2023	Mid-Ebb	Sunny	Low	17:58	2.5	M	1.25	1	0.076	303.99	7.12	7.13	0.93	0.92	29.3	29.35	42.0	42.69	3.16	3.21	36.18	36.11	25	26
M1	22/9/2023	Mid-Ebb	Sunny	Low	17:58	2.5	M	1.25	2			7.14		0.91		29.4		43.4		3.26		36.04			
M2	22/9/2023	Mid-Ebb	Sunny	Low	17:31	2.4	M	1.20	1	0.065	321.415	7.15	7.14	0.87	0.855	29.3	29.30	44.3	43.69	3.33	3.285	36.32	36.26	10	11
M2	22/9/2023	Mid-Ebb	Sunny	Low	17:31	2.4	M	1.20	2			7.13		0.84		29.3		43.1		3.24		36.2			
M3	22/9/2023	Mid-Ebb	Sunny	Low	16:45	2.1	M	1.05	1	0.069	84.164	7.65	7.68	0.92	0.93	29.5	29.45	56.4	56.75	4.47	4.5	39.45	39.47	24	25
M3	22/9/2023	Mid-Ebb	Sunny	Low	16:46	2.1	M	1.05	2			7.7		0.94		29.4		57.1		4.53		39.49			

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For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis			
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/9/2023	Mid-Flood	Sunny	Low	17:25	2.7	M	1.35	1	0.085	170.38	7.38	7.37	1.60	1.61	29.6	29.65	35.8	35.25	2.69	2.65	25.74	25.675	44	41
M1	25/9/2023	Mid-Flood	Sunny	Low	17:25	2.7	M	1.35	2			7.36		1.62		29.7		34.7		2.61		25.61		37	
M2	25/9/2023	Mid-Flood	Sunny	Low	17:49	2.2	M	1.10	1	0.084	173.633	7.34	7.35	1.57	1.56	29.6	29.60	36.3	36.18	2.73	2.72	24.53	24.49	53	55
M2	25/9/2023	Mid-Flood	Sunny	Low	17:50	2.2	M	1.10	2			7.35		1.55		29.6		36.0		2.71		24.45		56	
M3	25/9/2023	Mid-Flood	Sunny	Low	18:17	1.9	M	0.95	1	0.075	255.326	7.44	7.47	1.66	1.655	29.7	29.70	57	57.05	4.86	4.875	24.6	24.9	48	46
M3	25/9/2023	Mid-Flood	Sunny	Low	18:18	1.8	M	0.90	2			7.5		1.65		29.7		57.1		4.89		25.2		43	
M1	25/9/2023	Mid-Ebb	Sunny	Low	9:45	2	M	1.00	1	0.069	341.803	7.4	7.40	1.57	1.59	29.2	29.25	38.0	37.11	2.86	2.79	25.93	25.9	30	36
M1	25/9/2023	Mid-Ebb	Sunny	Low	9:45	2	M	1.00	2			7.4		1.61		29.3		36.2		2.72		25.87		42	
M2	25/9/2023	Mid-Ebb	Sunny	Low	9:16	1.8	M	0.90	1	0.074	318.989	7.2	7.21	1.64	1.625	29.1	29.10	37.1	37.04	2.79	2.785	26.47	26.495	42	35
M2	25/9/2023	Mid-Ebb	Sunny	Low	9:16	1.8	M	0.90	2			7.21		1.61		29.1		37.0		2.78		26.52		27	
M3	25/9/2023	Mid-Ebb	Sunny	Low	8:32	1.7	M	0.85	1	0.082	77.476	7.81	7.86	1.63	1.645	29.6	29.65	69.6	69.60	5.97	5.965	40.5	40.75	24	26
M3	25/9/2023	Mid-Ebb	Sunny	Low	8:33	1.7	M	0.85	2			7.9		1.66		29.7		69.6		5.96		41		28	

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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	27/9/2023	Mid-Flood	Sunny	Low	15:46	2.8	M	1.40	1	0.073	180.719	7.35	7.35	3.67	3.7	29.3	29.35	37.5	37.64	2.82	2.83	13.01	13.15	13	14
M1	27/9/2023	Mid-Flood	Sunny	Low	15:47	2.8	M	1.40	2			7.34		3.73		29.4		37.8		2.84		13.29			
M2	27/9/2023	Mid-Flood	Sunny	Low	16:18	2.6	M	1.30	1	0.074	178.198	7.28	7.29	3.73	3.725	29.4	29.45	36.3	36.24	2.73	2.725	13.17	13.25	17	16
M2	27/9/2023	Mid-Flood	Sunny	Low	16:18	2.6	M	1.30	2			7.3		3.72		29.5		36.2		2.72		13.33			
M3	27/9/2023	Mid-Flood	Sunny	Low	16:30	2	M	1.00	1	0.087	266.851	7.87	7.88	3.66	3.665	30.1	30.30	49.7	49.75	4.17	4.175	5.31	10.225	14	15
M3	27/9/2023	Mid-Flood	Sunny	Low	16:31	2	M	1.00	2			7.89		3.67		30.5		49.8		4.18		10.22			
M1	27/9/2023	Mid-Ebb	Sunny	Low	9:55	2.5	M	1.25	1	0.058	343.466	7.32	7.32	3.80	3.845	29.4	29.45	44.2	44.22	3.32	3.325	12.29	12.19	9	12
M1	27/9/2023	Mid-Ebb	Sunny	Low	9:56	2.5	M	1.25	2			7.31		3.89		29.5		44.3		3.33		12.09			
M2	27/9/2023	Mid-Ebb	Sunny	Low	9:23	2.4	M	1.20	1	0.08	318.173	7.35	7.35	3.83	3.855	29.1	29.10	45.9	45.42	3.45	3.415	13.29	13.295	20	21
M2	27/9/2023	Mid-Ebb	Sunny	Low	9:24	2.4	M	1.20	2			7.35		3.88		29.1		45.0		3.38		13.3			
M3	27/9/2023	Mid-Ebb	Sunny	Low	8:40	2.1	M	1.05	1	0.095	82.145	7.76	7.77	3.88	3.925	29.7	29.65	60.1	59.65	4.7	4.665	23.34	23.39	24	22
M3	27/9/2023	Mid-Ebb	Sunny	Low	8:42	2.1	M	1.05	2			7.77		3.97		29.6		59.2		4.63		23.44			

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	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	29/9/2023	Mid-Flood	Cloudy	Low	8:27	2.4	M	1.20	1	0.094	185.578	7.38	7.38	4.34	4.36	29.4	29.40	50.8	50.07	3.82	3.765	13.00	12.99	32	35
M1	29/9/2023	Mid-Flood	Cloudy	Low	8:28	2.4	M	1.20	2			7.37		4.38		29.4		49.3		3.71		12.98			
M2	29/9/2023	Mid-Flood	Cloudy	Low	8:57	2.1	M	1.05	1	0.087	179.584	7.32	7.32	4.45	4.41	29.2	29.25	53.1	53.40	3.99	4.015	12.06	11.945	25	33
M2	29/9/2023	Mid-Flood	Cloudy	Low	8:58	2.1	M	1.05	2			7.31		4.37		29.3		53.7		4.04		11.83			
M3	29/9/2023	Mid-Flood	Cloudy	Low	9:20	2	M	1.00	1	0.066	261.354	7.67	7.68	4.33	4.335	29	28.85	56	55.80	4.59	4.585	9.45	9.475	51	62
M3	29/9/2023	Mid-Flood	Cloudy	Low	9:23	2	M	1.00	2			7.68		4.34		28.7		55.6		4.58		9.5			
M1	29/9/2023	Mid-Ebb	Cloudy	Low	13:41	1.9	M	0.95	1	0.078	315.082	7.38	7.39	4.72	4.715	28.9	28.90	59.5	60.05	4.47	4.515	12.38	12.305	30	35
M1	29/9/2023	Mid-Ebb	Cloudy	Low	13:42	1.9	M	0.95	2			7.4		4.71		28.9		60.6		4.56		12.23			
M2	29/9/2023	Mid-Ebb	Cloudy	Low	13:08	1.7	M	0.85	1	0.078	322.289	7.33	7.33	4.26	4.23	28.9	28.90	45.2	45.29	3.4	3.405	12.40	12.185	24	19
M2	29/9/2023	Mid-Ebb	Cloudy	Low	13:08	1.7	M	0.85	2			7.32		4.2		28.9		45.4		3.41		11.97			
M3	29/9/2023	Mid-Ebb	Cloudy	Low	12:32	1.4	M	0.70	1	0.12	78.364	7.66	7.68	4	4.1	28.5	28.55	66.6	66.55	5.44	5.465	15.6	15.8	17	17
M3	29/9/2023	Mid-Ebb	Cloudy	Low	12:34	1.5	M	0.75	2			7.7		4.2		28.6		66.5		5.49		16			

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.

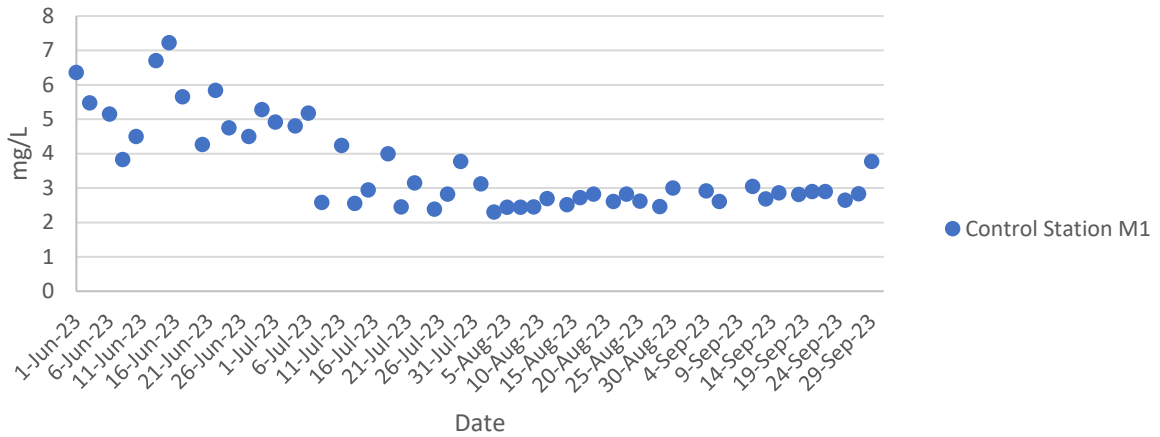
For Flood Tide

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

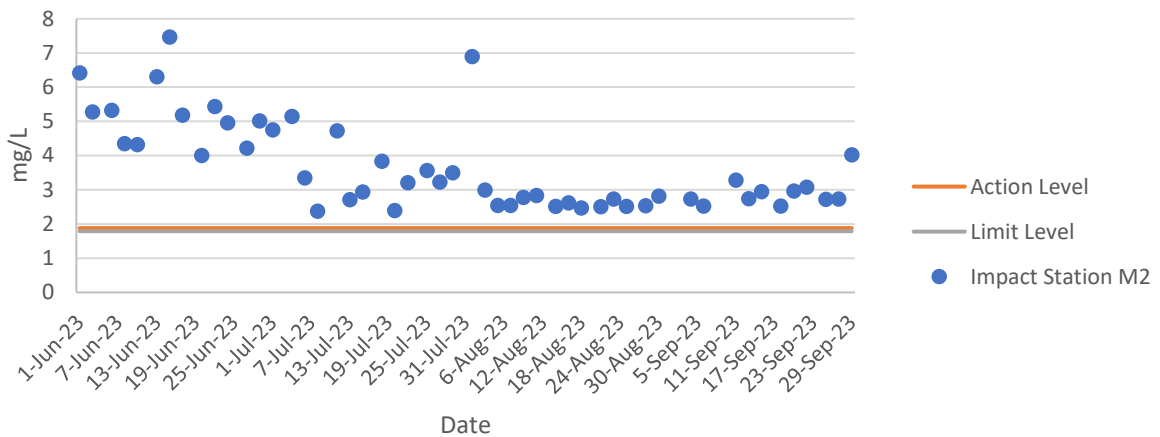
For Ebb Tide

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

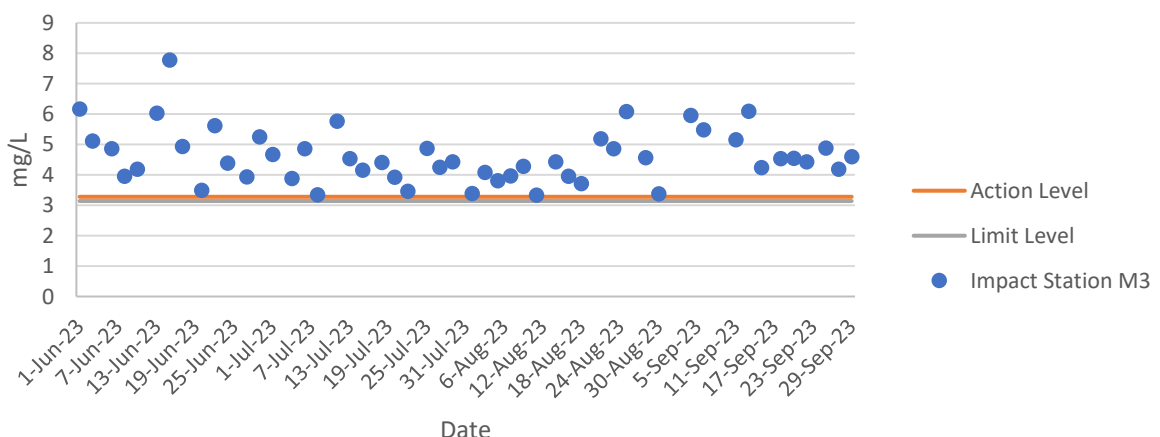
Dissolved Oxygen at Mid-Flood Tide



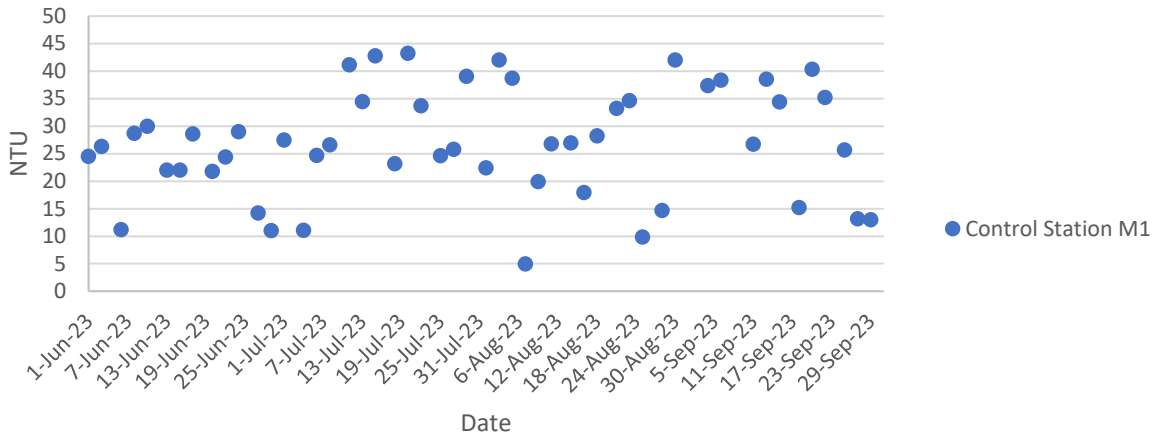
Dissolved Oxygen at Mid-Flood Tide



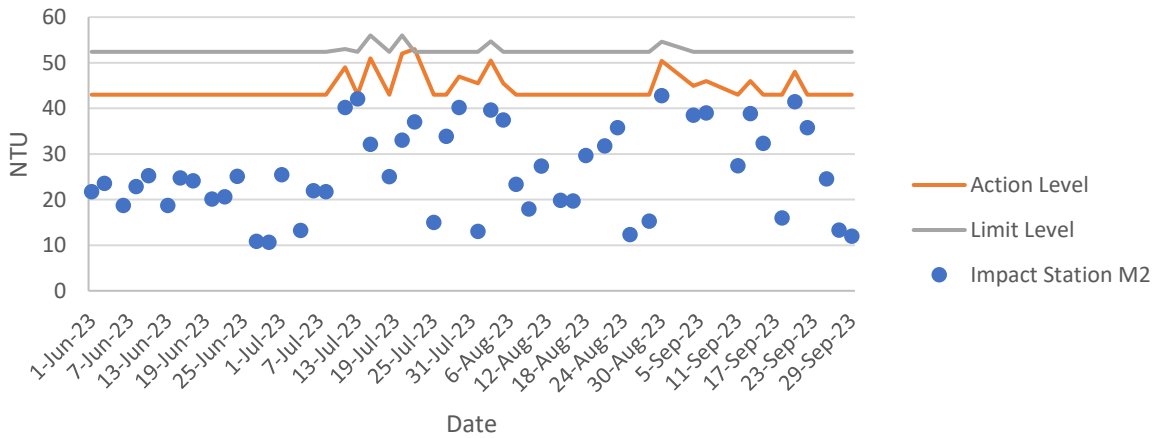
Dissolved Oxygen at Mid-Flood Tide



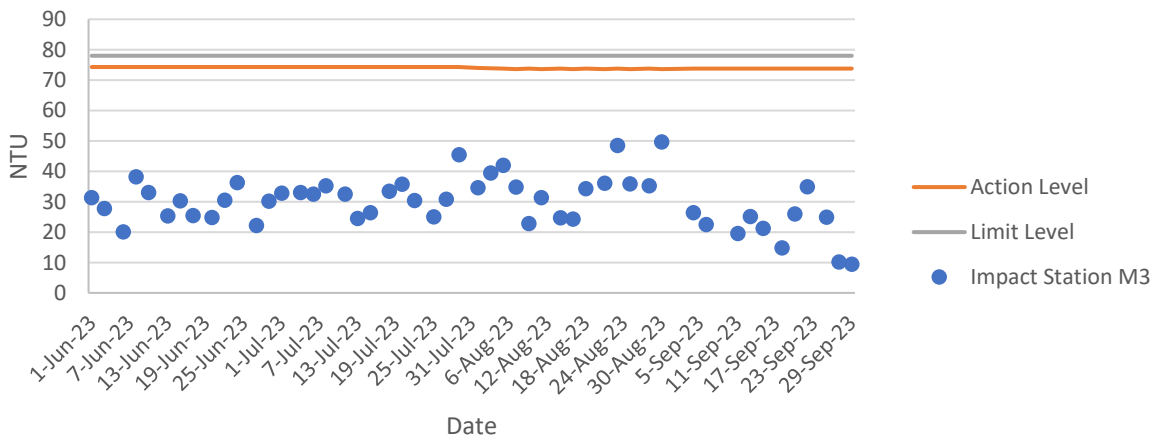
Turbidity at Mid-Flood Tide



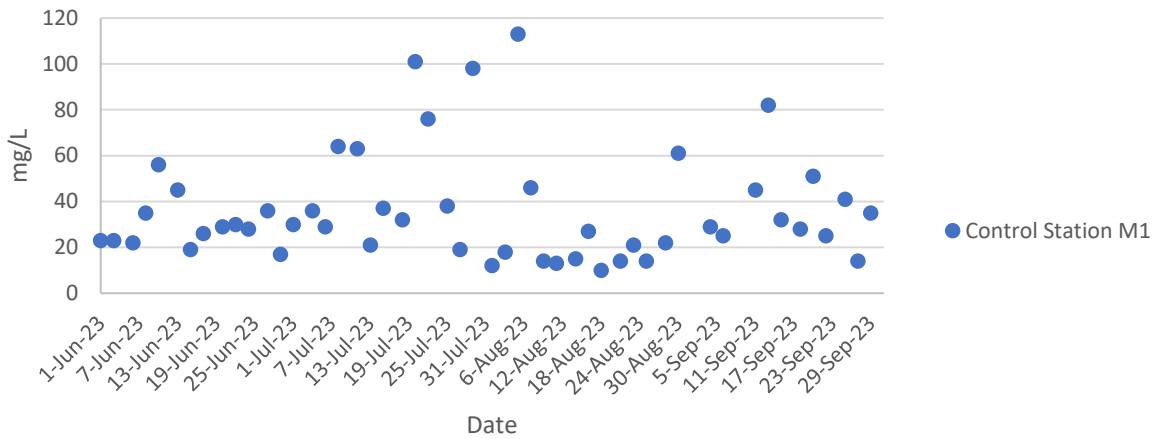
Turbidity at Mid-Flood Tide



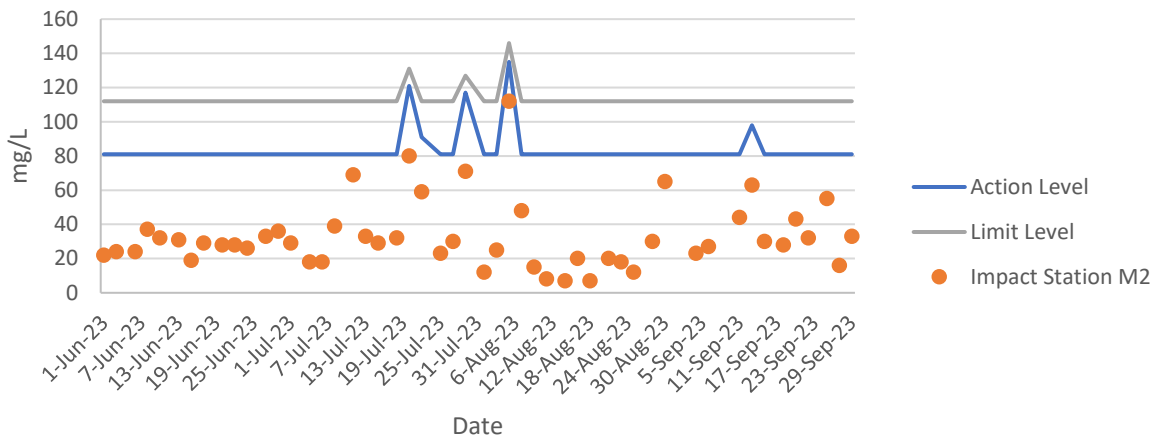
Turbidity at Mid-Flood Tide



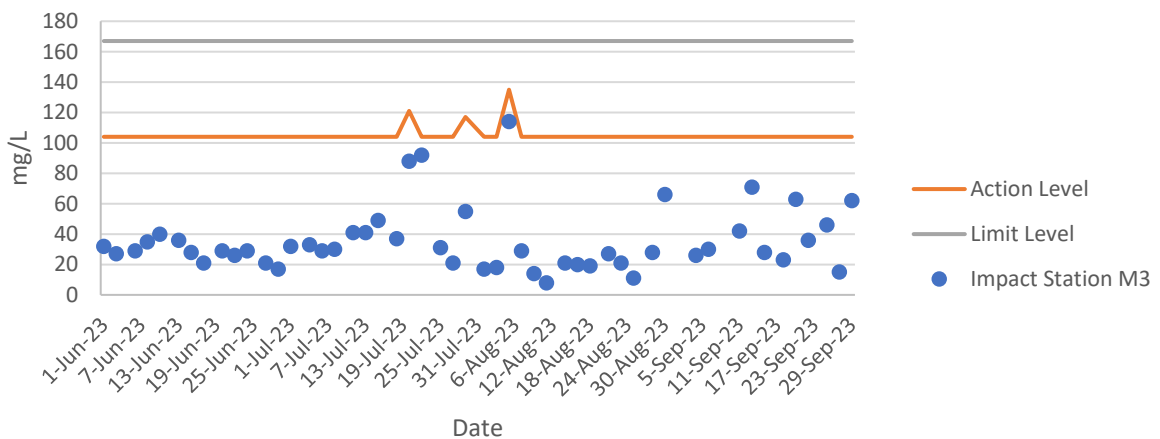
Total Suspended Solids at Mid-Flood Tide



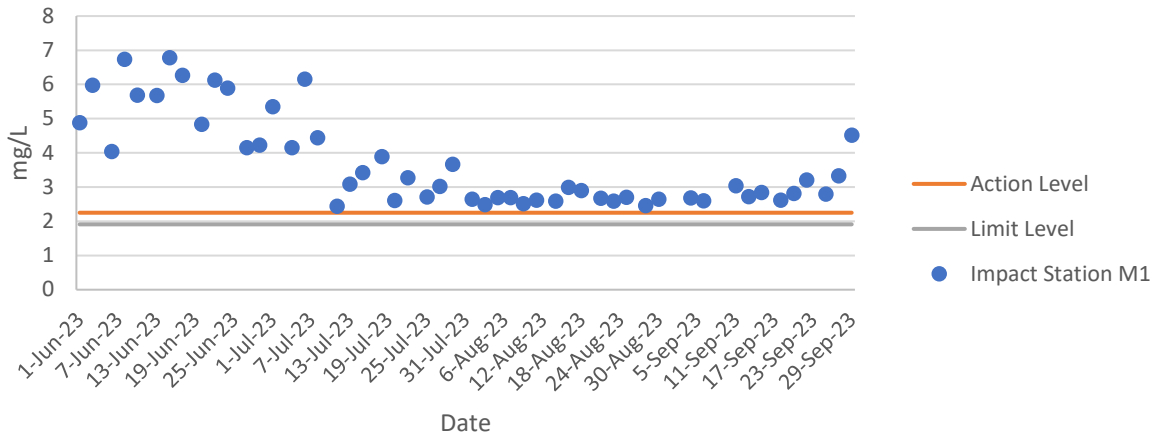
Total Suspended Solids at Mid-Flood Tide



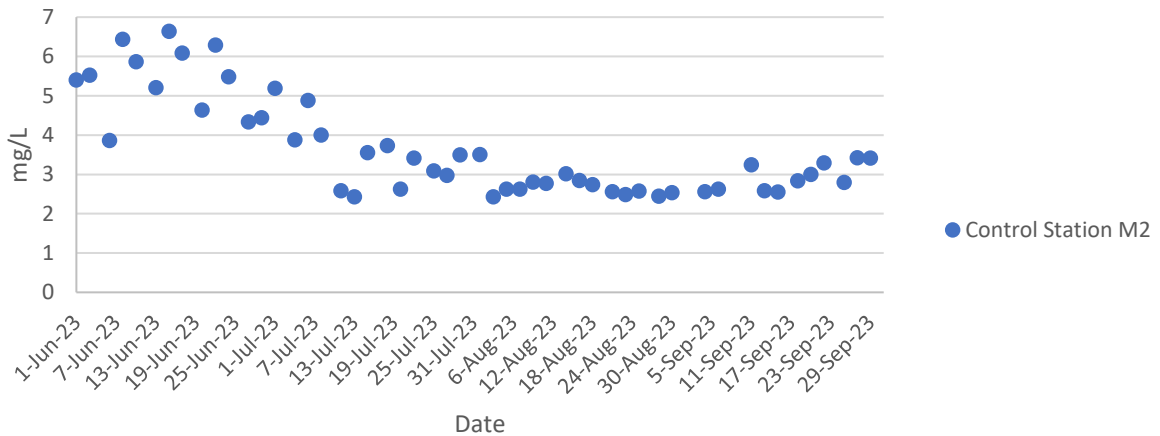
Total Suspended Solids at Mid-Flood Tide



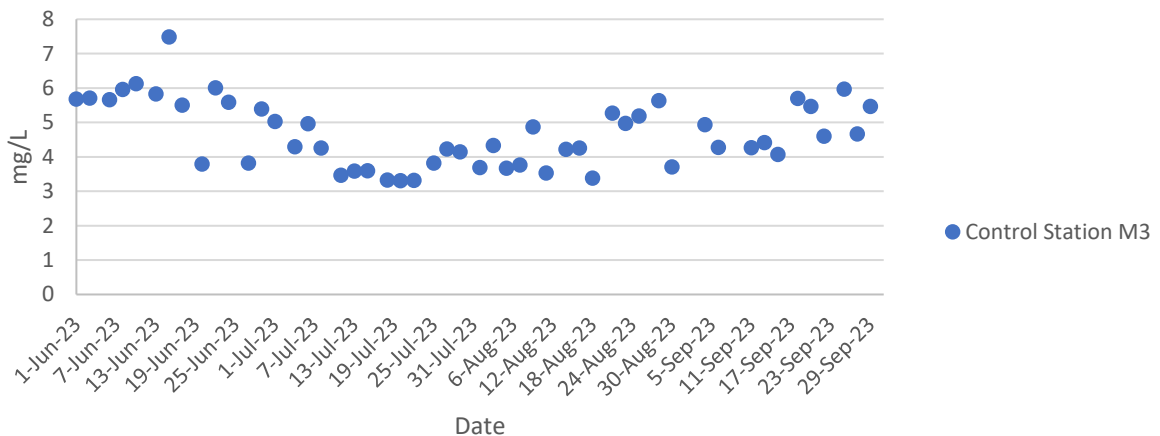
Dissolved Oxygen at Mid-Ebb Tide

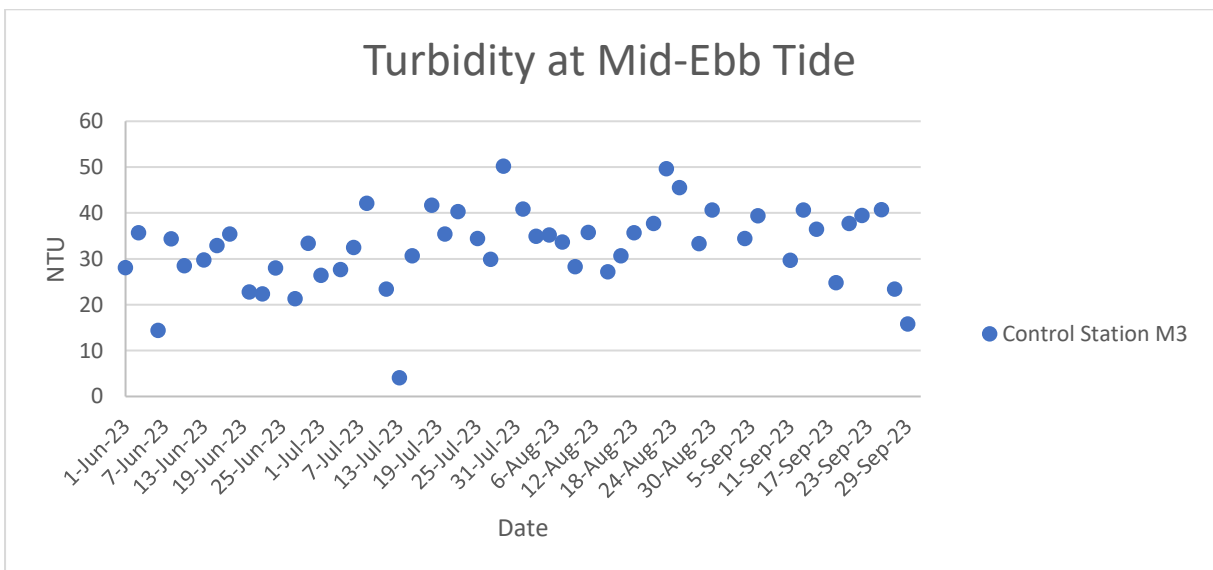
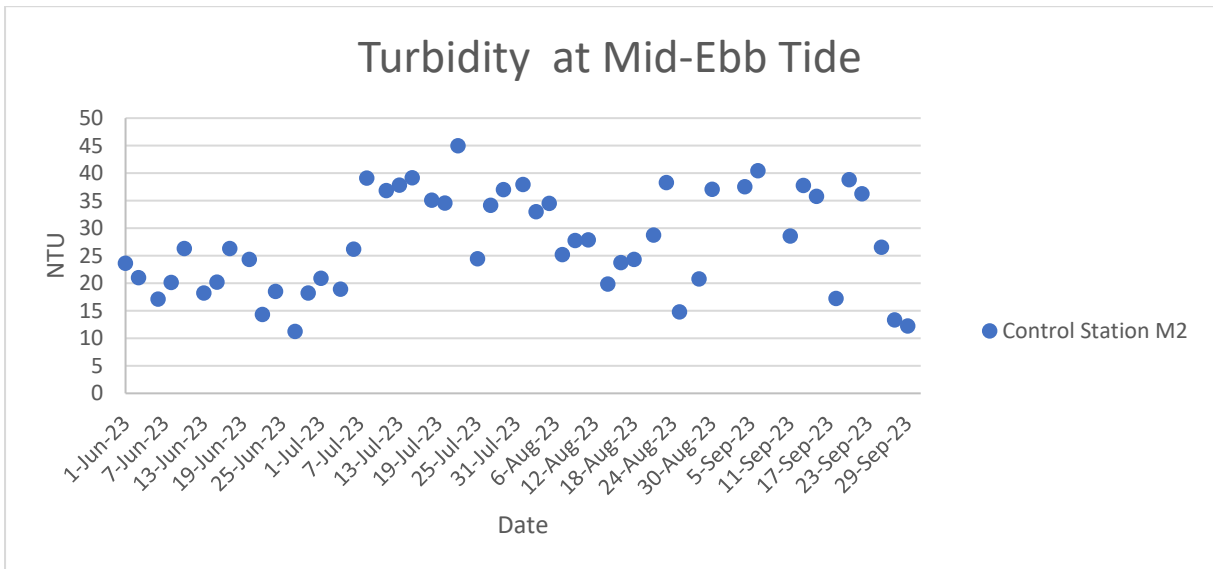
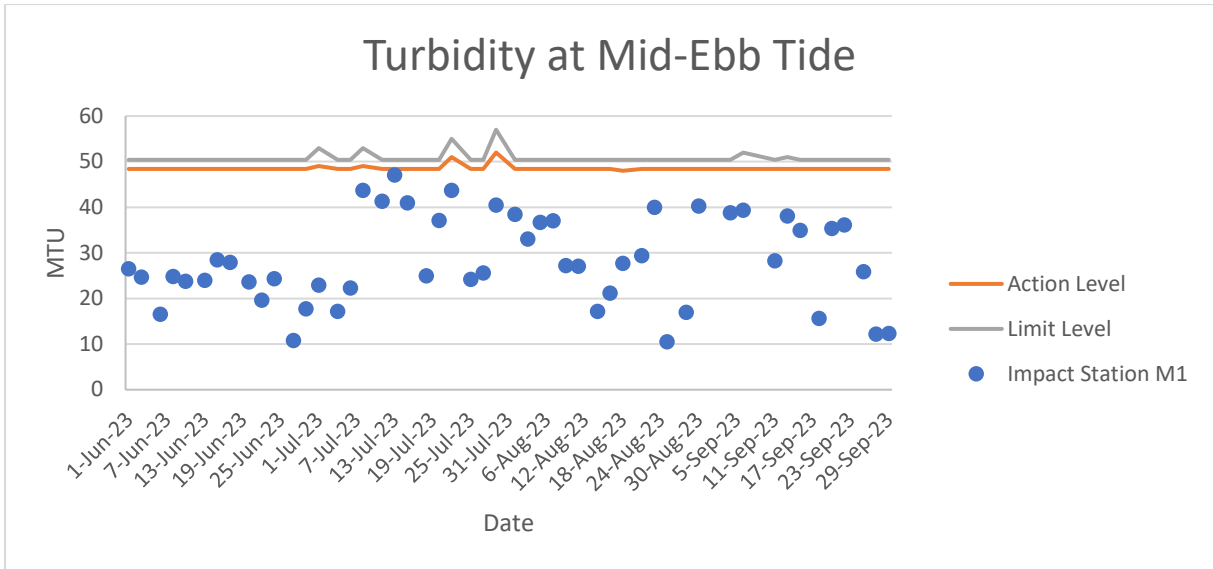


Dissolved Oxygen at Mid-Ebb Tide



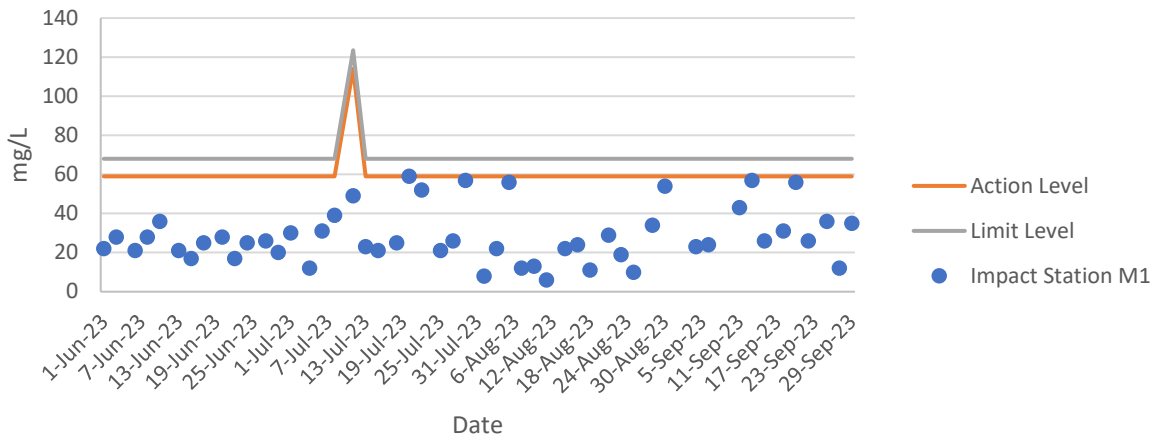
Dissolved Oxygen at Mid-Ebb Tide



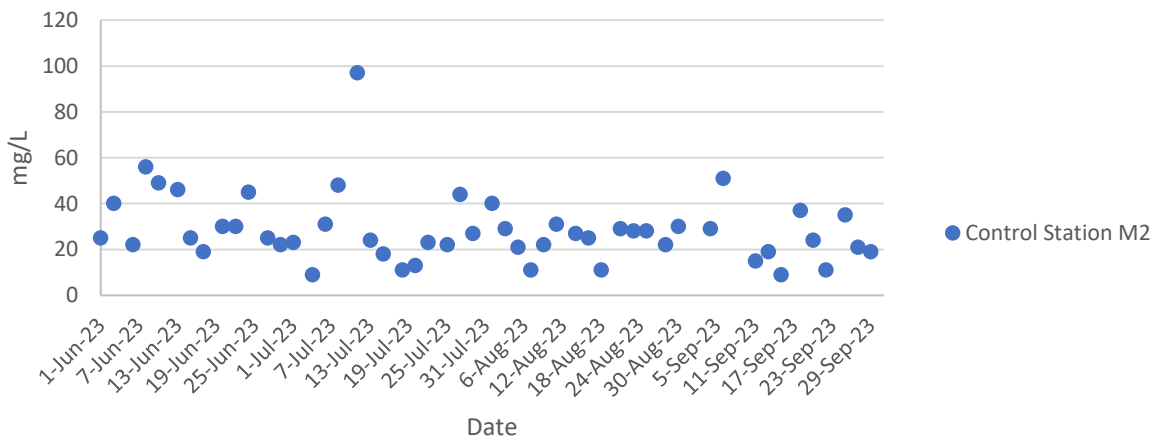


Water Quality Monitoring Results

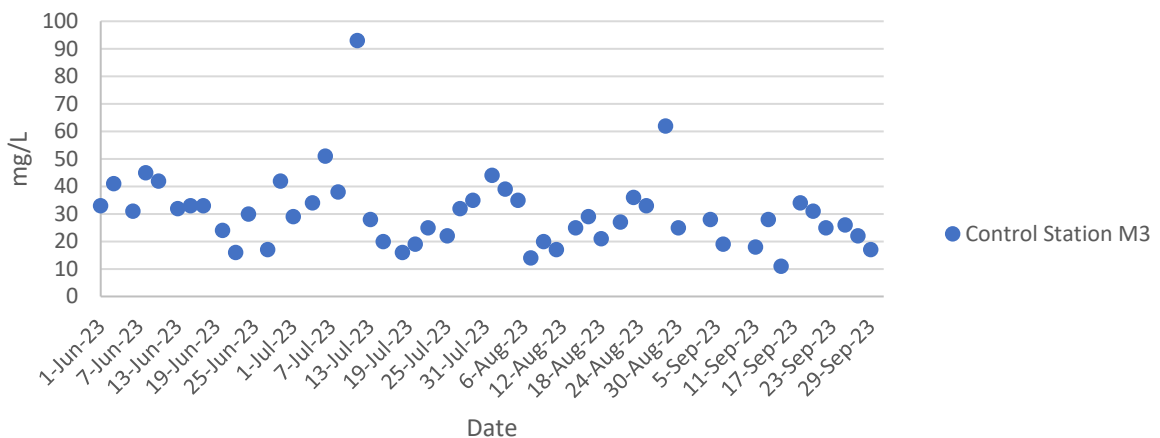
Total Suspended Solids at Mid-Ebb Tide



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 (21 September 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Crested Myna	<i>Acridotheres crisatellus</i>	12	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Common Myna	<i>Acridotheres tristis</i>	1	Uncommon	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Siberian Stonechat	<i>Saxicola maurus</i>	2	Common	W, M	-	-	-	-	-	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Red Whiskered Bulbul	<i>Pycnonotus jocosus</i>	3	Abundant	R	-	-	-	LC	-	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Black Drongo	<i>Dicrurus macrocerus</i>	1	Common	M, Su	-	-	-	LC	-	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Yellow Bittern	<i>Ixobrychus sinensis</i>	1	Uncommon	PM,SV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	26	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Whiskered tern	<i>Chlidonias hybrida</i>	17	Uncommon	PM	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	White-shouldered Starling	<i>Sturnia sinensis</i>	1	Common	PM	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	White-winged Tern	<i>Chlidonias leucopterus</i>	2	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Transect	FLW	Oriental magpie robin	<i>Copsychus sauralis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Barn Swallow	<i>Hirundo rustica</i>	1	Abundant	PM, SV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Black Kite	<i>Milvus migran</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Red Whiskered Bulbul	<i>Pycnonotus jocosus</i>	3	Abundant	R	-	-	-	LC	-	N	N
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Yellow Bittern	<i>Ixobrychus sinensis</i>	1	Uncommon	PM,SV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Transect	NSW	Cinereous Tit	<i>Parus cinereus</i>	2	Common	R	-	-	-	-	-	N	N
21/09/2023	Nighttime	Wet Season	NSW	Transect	NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	16	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (21 September 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Little Egret	<i>Egretta garzetta</i>	29	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	Whiskered Tern	<i>Chlidonias hybrida</i>	8	Uncommon	PM	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW1	White-winged Tern	<i>Chlidonias leucopterus</i>	2	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Nighttime	Wet Season	FLW	Point Count	FLW1	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Large-billed Crow	<i>Corvus macrorhynchos</i>	2	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Black Kite	<i>Milvus migran</i>	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW2	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Black-collared Starling	<i>Gracupica nigricollis</i>	4	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW3	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW3	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW3	White Wagtail	<i>Motacilla alba</i>	2	Common	PM, WV	-	-	-	LC	LC	N	N
21/09/2023	Nighttime	Wet Season	FLW	Point Count	FLW3	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	3	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	10	Abundant	R	-	-	-	LC	-	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Black-headed Gull	<i>Chroicocephalus ridibundu</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW4	Barn Swallow	<i>Hirundo rustica</i>	1	Abundant	PM, SV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Black-collared Starling	<i>Gracupica nigricollis</i>	6	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Green Sandpiper	<i>Tringa ochropus</i>	1	Uncommon	PM, WV	-	-	-	LC	LC	N	Y

Appendix F.1 Ecological Bird Monitoring Result (21 September 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Whiskered Tern	<i>Chlidonias hybrida</i>	3	Uncommon	PM	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	White-winged Tern	<i>Chlidonias leucopterus</i>	16	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW5	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW6	Black-collared Starling	<i>Gracupica nigricollis</i>	20	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	3	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Black-collared Starling	<i>Gracupica nigricollis</i>	22	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Crested Myna	<i>Acridotheres crisatellus</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	White Wagtail	<i>Motacilla alba</i>	1	Common	PM, WV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	FLW	Point Count	FLW7	Asian Azure- winged Magpie	<i>Cyanopica cyanus</i>	7	Common	R	-	-	-	-	-	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	5	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Crested Myna	<i>Acridotheres crisatellus</i>	5	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (21 September 2023)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Barn Swallow	<i>Hirundo rustica</i>	3	Abundant	PM, SV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	White Wagtail	<i>Motacilla alba</i>	2	Common	PM, WV	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	NSW1	Black Kite	<i>Milvus migran</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Black-winged Stilt	<i>Himantopus himantopus</i>	11	Common	PM	RC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	-	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Wood Sandpiper	<i>Tringa glareola</i>	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW1	Common Redshank	<i>Tringa totanus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Chinese Pond Heron	<i>Ardeola bacchus</i>	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Black-winged Stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	-	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Plain Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y

Appendix F.1 Ecological Bird Monitoring Result (21 September 2023)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect Impact	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Great Egret	<i>Ardea alba</i>	1	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Green Sandpiper	<i>Tringa ochropus</i>	3	Uncommon	PM, WV	-	-	-	LC	LC	N	Y
21/09/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW2	Masked laughingthrush	<i>Pterorhinus perspicillatus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Great Egret	<i>Ardea alba</i>	2	Common	R, WV	PRC (RC)	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Black-winged Stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
21/09/2023	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Common greenshank	<i>Tringa nebularia</i>	1	Abundant	PM, WV	RC	-	-	LC	LC	Y	Y
21/09/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW3	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
21/09/2023	Nighttime	Wet Season	NSW	Point Count	SP/NSW3	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	4	Common	R,WV	-	-	-	LC	LC	N	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 (21 September 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardeola bacchus</i>	40	0.138889	-1.97408	-0.27418	0.541249
<i>Egretta garzetta</i>	41	0.142361	-1.94939	-0.27752	0.540989
<i>Motacilla alba</i>	6	0.020833	-3.8712	-0.08065	0.312212
<i>Ardea cinerea</i>	8	0.027778	-3.58352	-0.09954	0.356711
<i>Chlidonias hybrida</i>	11	0.038194	-3.26507	-0.12471	0.407178
<i>Chlidonias leucopterus</i>	18	0.0625	-2.77259	-0.17329	0.480453
<i>Nycticorax nycticorax</i>	8	0.027778	-3.58352	-0.09954	0.356711
<i>Spilopelia chinensis</i>	3	0.010417	-4.56435	-0.04755	0.217013
<i>Corvus macrorhynchos</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Milvus migran</i>	3	0.010417	-4.56435	-0.04755	0.217013
<i>Acridotheres cristatellus</i>	9	0.03125	-3.46574	-0.1083	0.375354
<i>Gracupica nigricollis</i>	54	0.1875	-1.67398	-0.31387	0.525412
<i>Amauornis phoenicurus</i>	3	0.010417	-4.56435	-0.04755	0.217013
<i>Prinia flaviventris</i>	4	0.013889	-4.27667	-0.0594	0.254026
<i>Pycnonotus jocosus</i>	10	0.034722	-3.36038	-0.11668	0.392088
<i>Chroicocephalus ridibundu</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Hirundo rustica</i>	4	0.013889	-4.27667	-0.0594	0.254026
<i>Streptopelia decaocto</i>	9	0.03125	-3.46574	-0.1083	0.375354
<i>Tringa ochropus</i>	4	0.013889	-4.27667	-0.0594	0.254026
<i>Ardea alba</i>	5	0.017361	-4.05352	-0.07037	0.285261
<i>Alcedo atthis</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Phalacrocorax carbo</i>	1	0.003472	-5.66296	-0.01966	0.111351
<i>Cyanopica cyanus</i>	7	0.024306	-3.71705	-0.09034	0.335817
<i>Pterorhinus perspicillatus</i>	4	0.013889	-4.27667	-0.0594	0.254026
<i>Himantopus himantopus</i>	16	0.055556	-2.89037	-0.16058	0.464125
<i>Actitis hypoleucos</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Tringa stagnatilis</i>	4	0.013889	-4.27667	-0.0594	0.254026
<i>Tringa glareola</i>	1	0.003472	-5.66296	-0.01966	0.111351
<i>Tringa totanus</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Pycnonotus sinensis</i>	2	0.006944	-4.96981	-0.03451	0.171521
<i>Prinia flaviventris</i>	1	0.003472	-5.66296	-0.01966	0.111351
<i>Gallinula chloropus</i>	1	0.003472	-5.66296	-0.01966	0.111351
<i>Tringa nebularia</i>	1	0.003472	-5.66296	-0.01966	0.111351
Total	288	1	-136.836	-2.84289	9.255966
Richness	33				
SS	9.256				
SQ	8.082				
H	2.843				
S ² H	0.004				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (21 September 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardeola bacchus</i>	40	0.322581	-1.1314	-0.36497	0.412926
<i>Egretta garzetta</i>	41	0.330645	-1.10671	-0.36593	0.404976
<i>Ardea cinerea</i>	8	0.064516	-2.74084	-0.17683	0.484658
<i>Milvus migran</i>	3	0.024194	-3.72167	-0.09004	0.335101
<i>Chroicocephalus ridibundu</i>	2	0.016129	-4.12713	-0.06657	0.27473
<i>Ardea alba</i>	5	0.040323	-3.21084	-0.12947	0.415706
<i>Phalacrocorax carbo</i>	1	0.008065	-4.82028	-0.03887	0.18738
<i>Himantopus himantopus</i>	16	0.129032	-2.04769	-0.26422	0.541038
<i>Tringa stagnatilis</i>	4	0.032258	-3.43399	-0.11077	0.380396
<i>Tringa glareola</i>	1	0.008065	-4.82028	-0.03887	0.18738
<i>Tringa totanus</i>	2	0.016129	-4.12713	-0.06657	0.27473
<i>Tringa nebularia</i>	1	0.008065	-4.82028	-0.03887	0.18738
Total	124	1	-40.1083	-1.75198	4.0864
Richness	12				
SS	4.086				
SQ	3.069				
H	1.752				
S ² H	0.009				

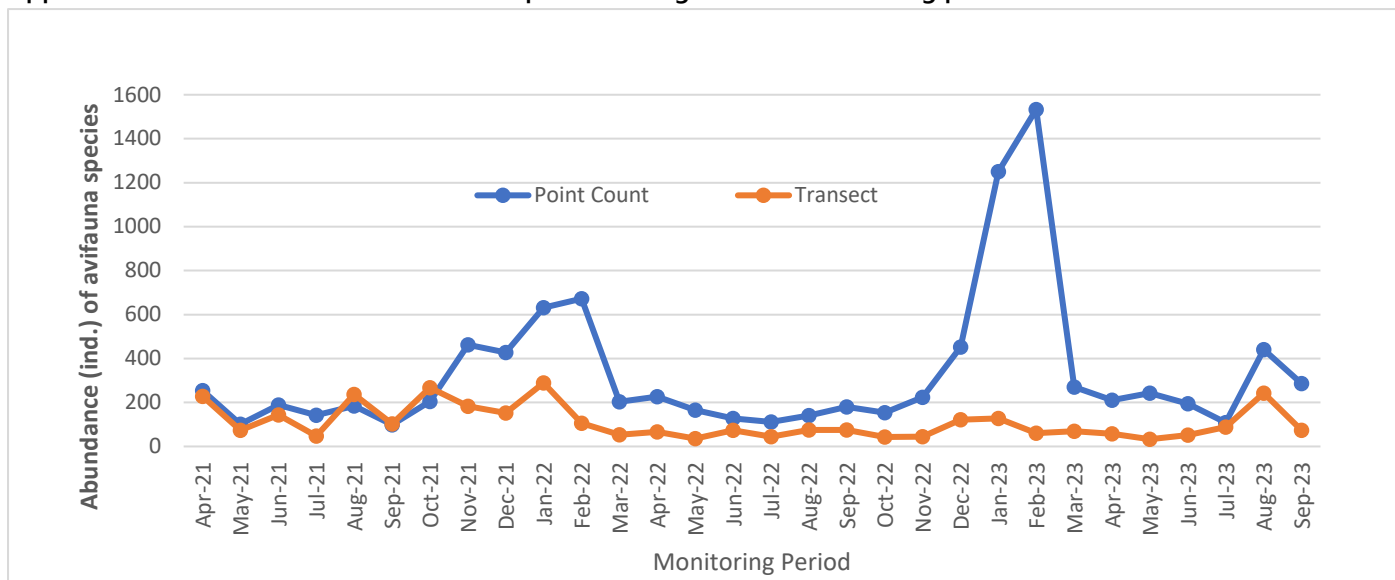
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (21 September 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	12	0.136364	-1.99243	-0.2717	0.541333
<i>Acridotheres tristis</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Saxicola maurus</i>	2	0.022727	-3.78419	-0.086	0.325457
<i>Pycnonotus jocosus</i>	6	0.068182	-2.68558	-0.18311	0.491749
<i>Lanius schach</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Dicrurus macrocercus</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Streptopelia decaocto</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Ixobrychus sinensis</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Gracupica nigricollis</i>	26	0.295455	-1.21924	-0.36023	0.439207
<i>Ardeola bacchus</i>	4	0.045455	-3.09104	-0.1405	0.434297
<i>Chlidonias hybrida</i>	17	0.193182	-1.64412	-0.31761	0.522198
<i>Sturnia sinensis</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Chlidonias leucopterus</i>	2	0.022727	-3.78419	-0.086	0.325457
<i>Amaurornis phoenicurus</i>	2	0.022727	-3.78419	-0.086	0.325457
<i>Copsychus saularis</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Hirundo rustica</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Milvus migran</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Pterorhinus perspicillatus</i>	4	0.045455	-3.09104	-0.1405	0.434297
<i>Ixobrychus sinensis</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Egretta garzetta</i>	1	0.011364	-4.47734	-0.05088	0.227802
<i>Parus cinereus</i>	2	0.022727	-3.78419	-0.086	0.325457
Total	88	1	-78.1109	-2.31734	6.670727
Richness	21				
SS	6.671				
SQ	5.37				
H	2.317				
S ² H	0.016				

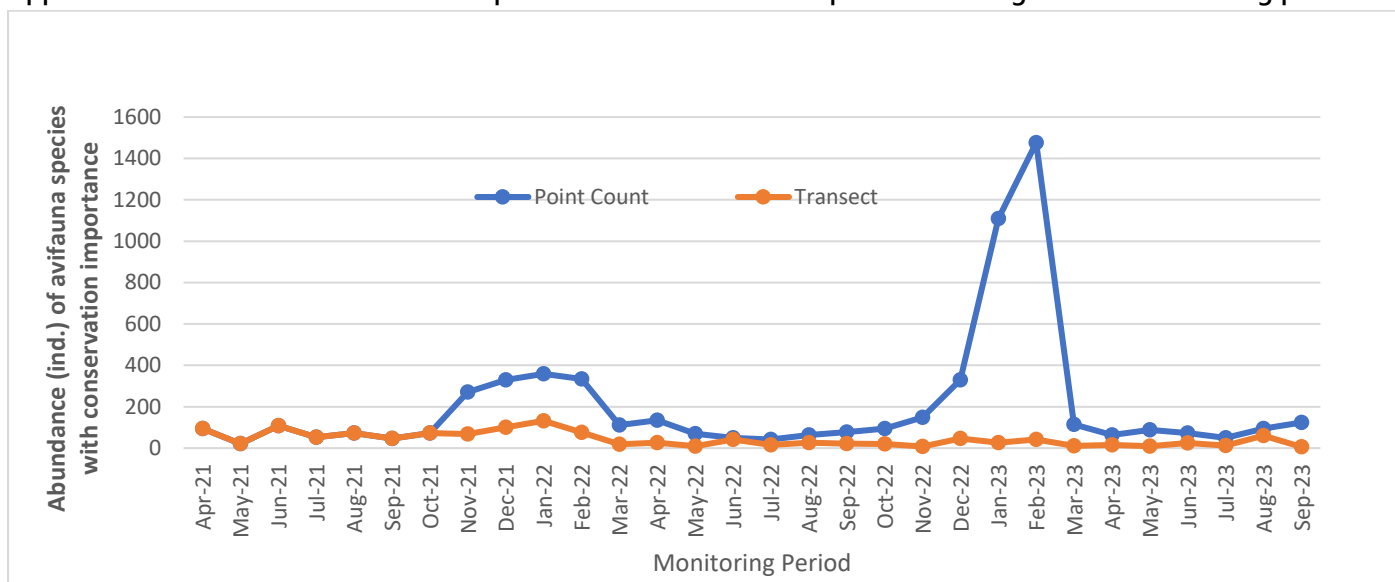
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (21 September 2023)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardeola bacchus</i>	4	0.666667	-0.40547	-0.27031	0.109601
<i>Milvus migran</i>	1	0.166667	-1.79176	-0.29863	0.535067
<i>Egretta garzetta</i>	1	0.166667	-1.79176	-0.29863	0.535067
Total	6	1	-3.98898	-0.86756	1.179735
Richness	3				
SS	1.180				
SQ	0.753				
H	0.868				
S ² H	0.099				

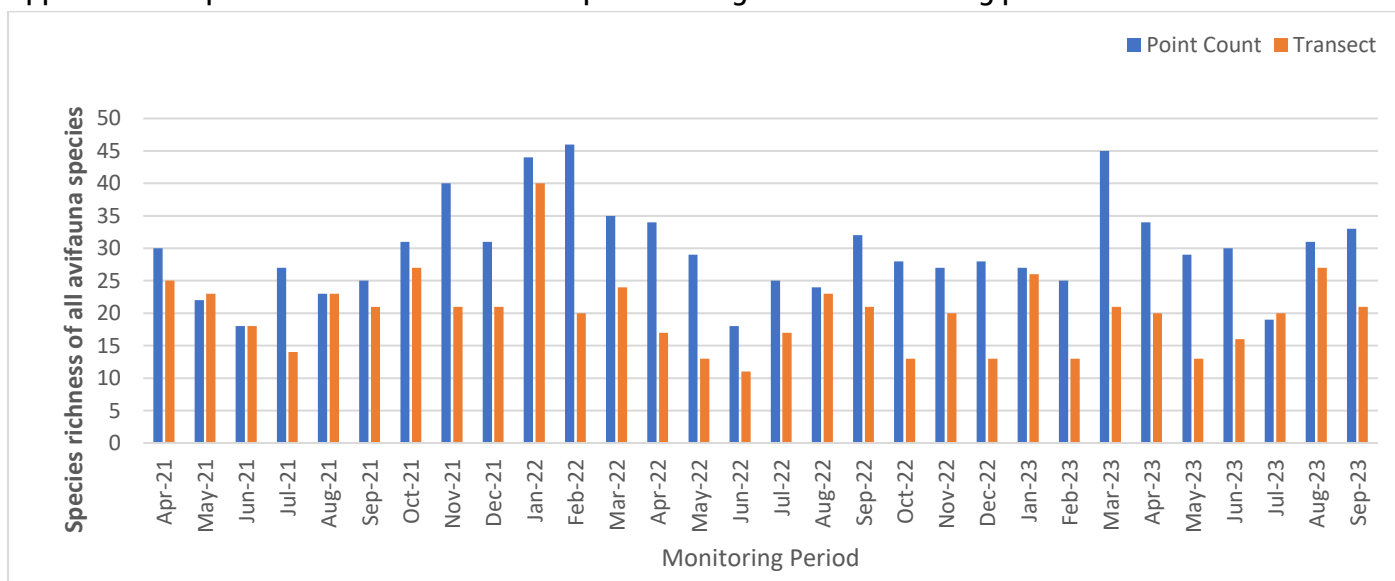
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



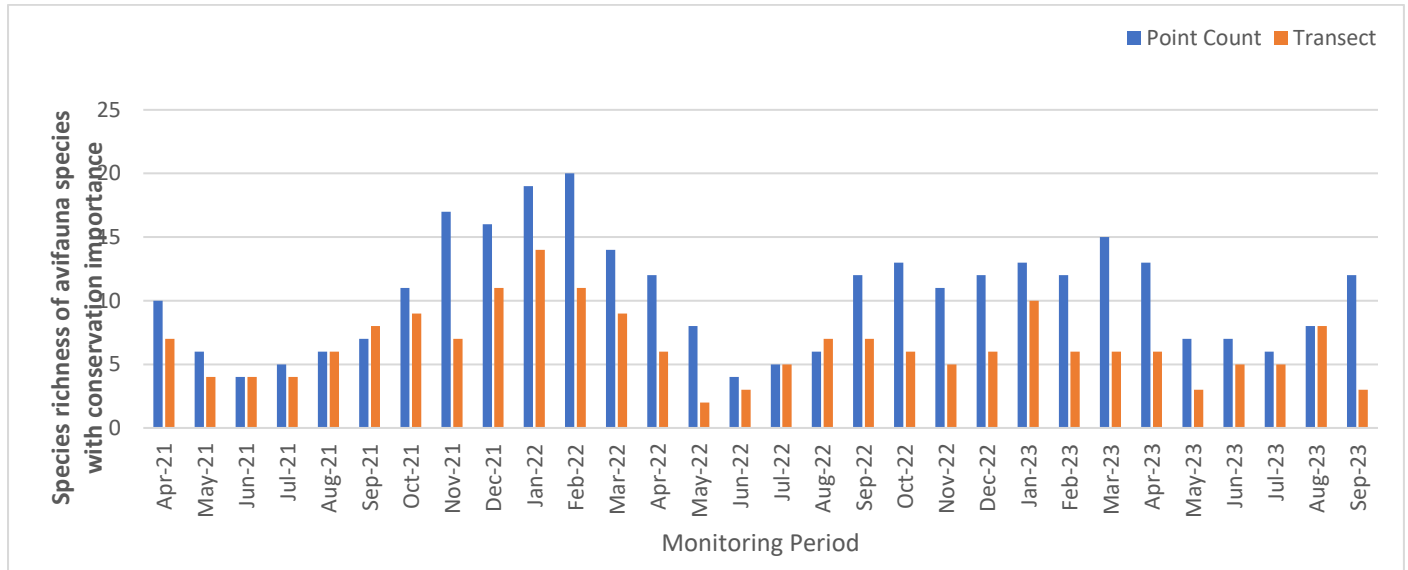
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



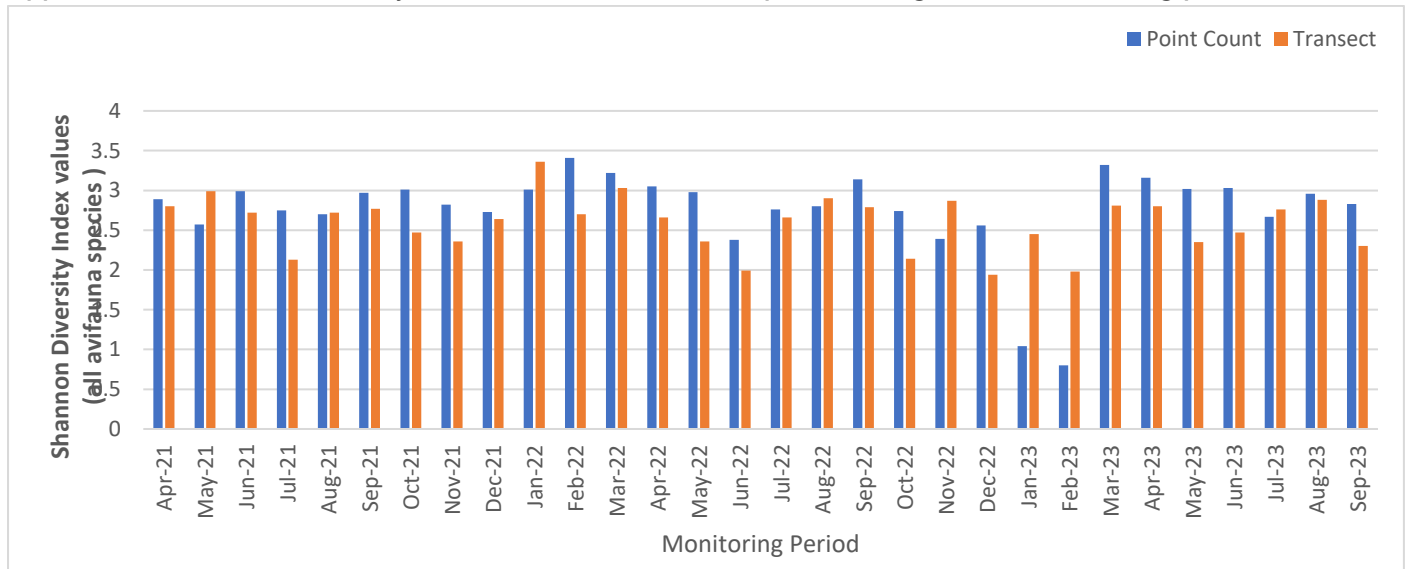
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



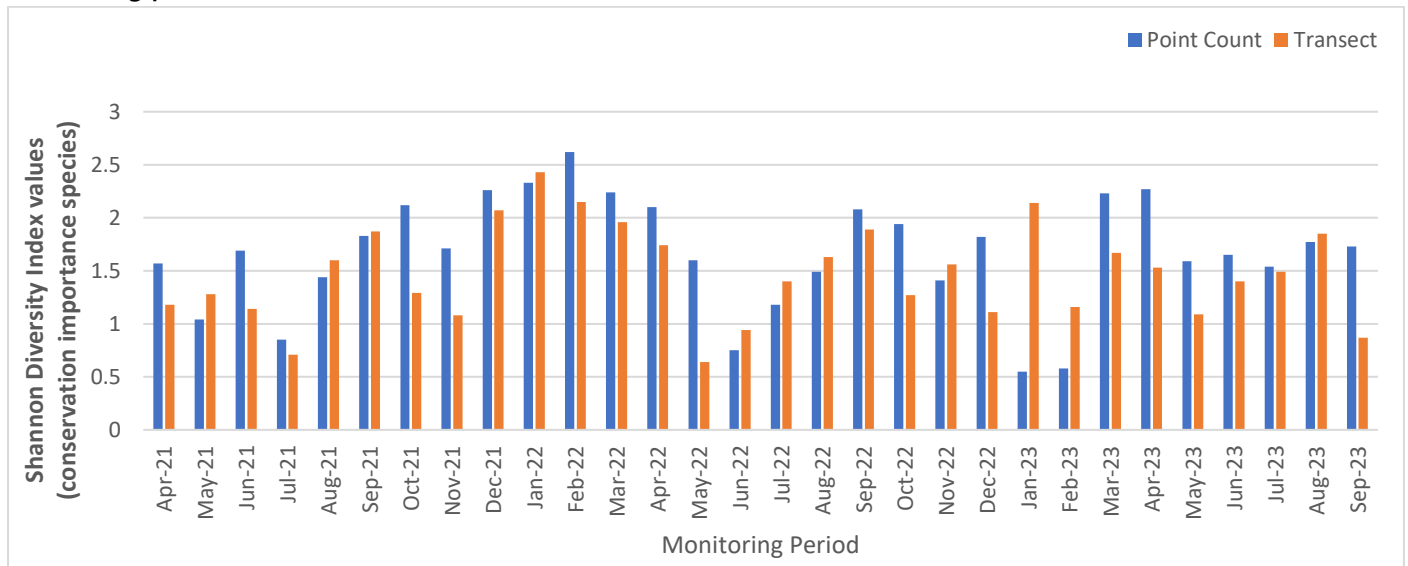
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	September 2016	September 2023
Total	222	288
Richness	34	33
H	3.011	2.843
S ² _H	0.004	0.004
t	1.878	
df	501	
Crit	1.965	
p	0.061	
CI	0.126	0.126

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

Months	September 2016	September 2023
Total	111	88
Richness	24	21
H	2.853	2.317
S ² _H	0.006	0.016
t	3.614	
df	150	
Crit	1.976	
p	0.0004	
CI	0.155	0.253

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

Months	September 2016	September 2023
Total	119	124
Richness	12	12
H	2.044	1.752
S^2_H	0.006	0.009
t	2.384	
df	235	
Crit	1.97	
p	0.018	
CI	0.155	0.19

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

Months	September 2016	September 2023
Total	37	6
Richness	6	3
H	1.456	0.868
S^2_H	0.0143	0.099
t	1.747	
df	8	
Crit	2.365	
p	0.124	
CI	0.239	0.629