
Air Quality Monitoring Results

Air Quality Monitoring Results for

Contract No. SPW 07/2020

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		
1-Nov-22	Cloudy	8:32	60	74	81	291	500
7-Nov-22	Cloudy	8:30	63	67	49		
12-Nov-22	Cloudy	8:39	81	70	98		
18-Nov-22	Fine	8:32	91	74	84		
24-Nov-22	Cloudy	8:31	46	67	49		
30-Nov-22	Cloudy	8:33	95	77	102		
		Min	46				
		Max	102				
		Average	74				

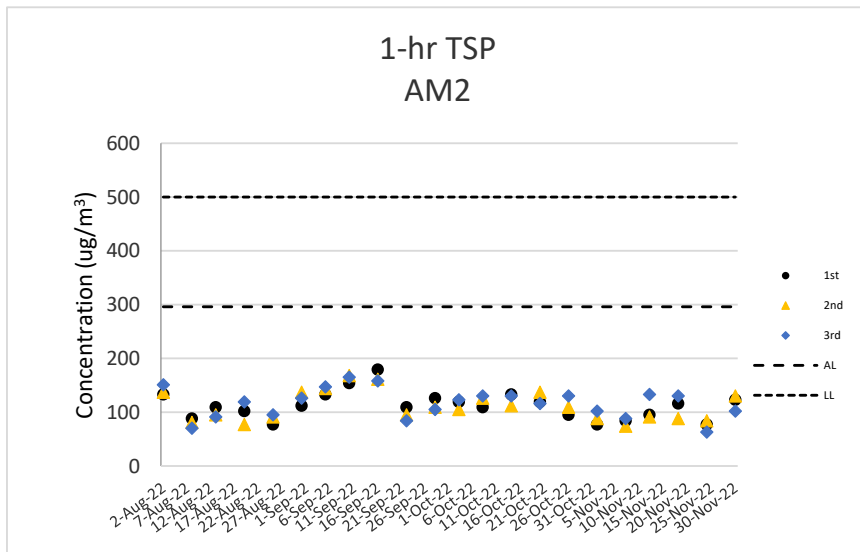
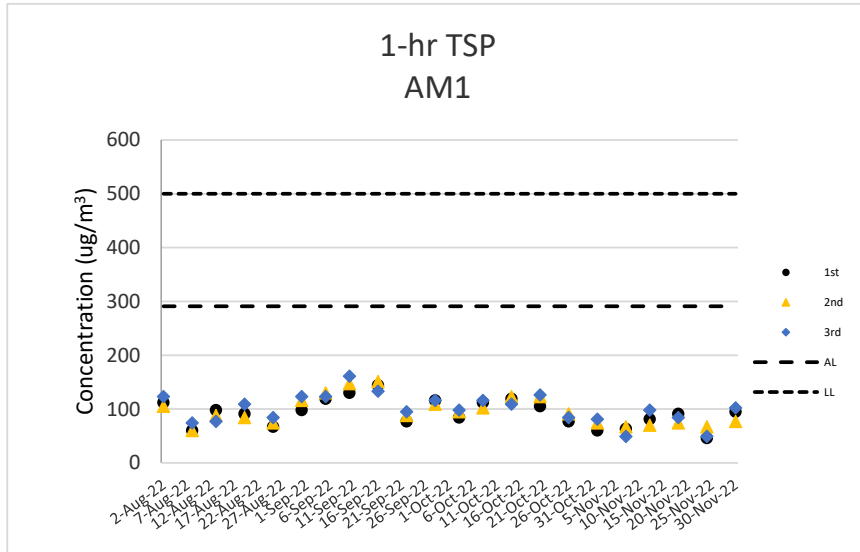
AM2 - Squatter house at the west of Yuen Long STW

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		
1-Nov-22	Cloudy	8:43	77	88	102	296	500
7-Nov-22	Cloudy	8:42	84	74	88		
12-Nov-22	Cloudy	8:53	95	91	133		
18-Nov-22	Fine	8:41	116	88	130		
24-Nov-22	Cloudy	9:00	77	84	63		
30-Nov-22	Cloudy	8:44	123	130	102		
		Min	63				
		Max	133				
		Average	97				

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



Air Quality Monitoring Results

Noise Monitoring Results

**Noise Monitoring Results for
Contract No. SPW 07/2020
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)
1-Nov-22	10:07	57	61	52	0.3	Cloudy	75
7-Nov-22	10:03	58	62	51	0.1	Cloudy	75
18-Nov-22	10:03	56	59	51	0.2	Fine	75
24-Nov-22	10:28	55	58	51	0.1	Cloudy	75
30-Nov-22	10:07	55	57	50	0.2	Cloudy	75
	Max	58					
	Min	55					

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)
1-Nov-22	8:49	66	69	58	0.4	Cloudy	75
7-Nov-22	8:47	66	69	58	0.3	Cloudy	75
18-Nov-22	8:46	65	69	57	0.3	Fine	75
24-Nov-22	9:06	66	70	58	0.3	Cloudy	75
30-Nov-22	8:50	67	70	58	0.3	Cloudy	75
	Max	67					
	Min	65					

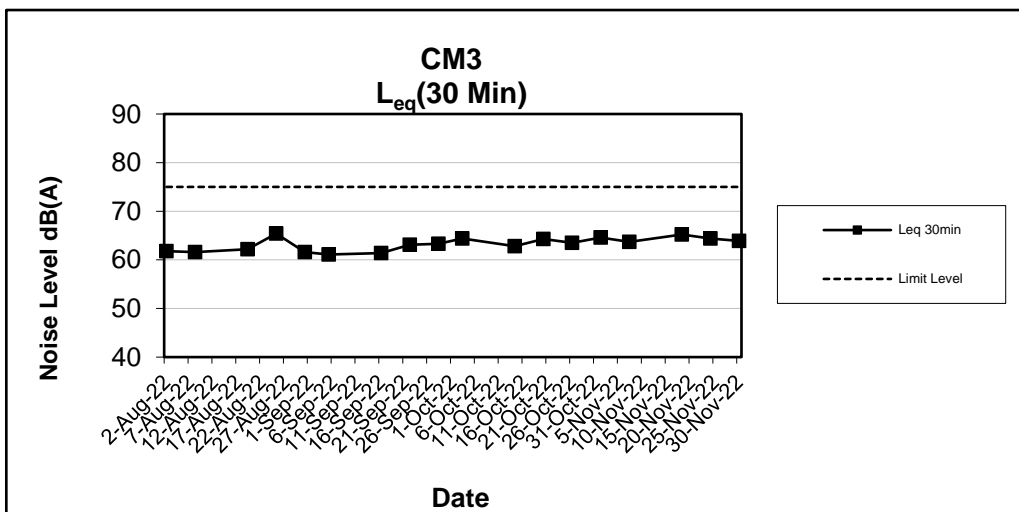
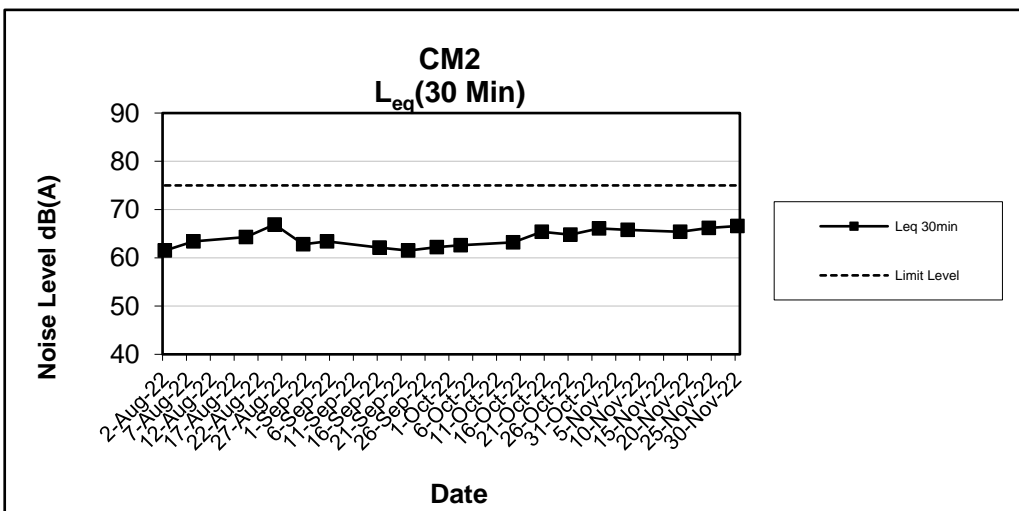
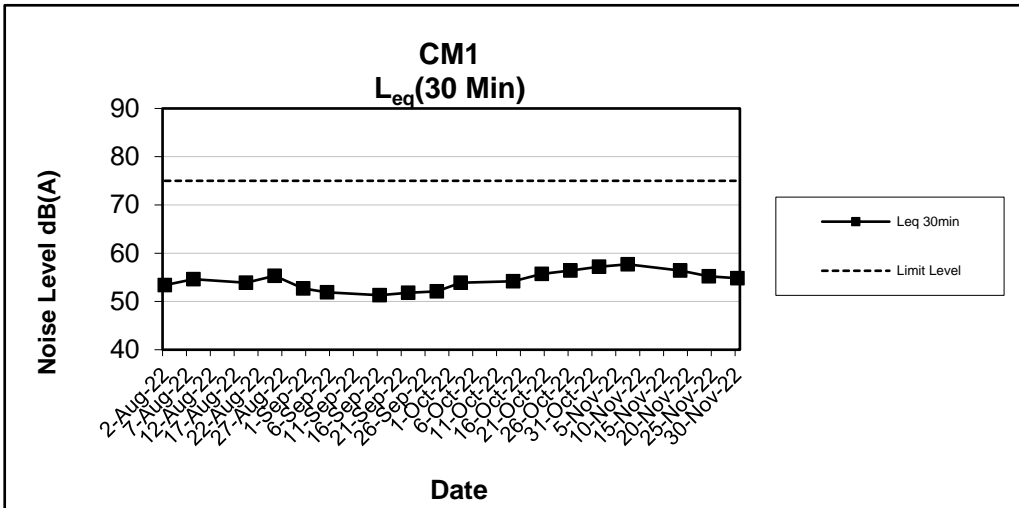
CM3 - Squatter house to the east of YLSTW

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)
1-Nov-22	11:28	65	68	58	0.4	Cloudy	75
7-Nov-22	11:22	64	67	57	0.2	Cloudy	75
18-Nov-22	11:22	65	69	58	0.2	Fine	75
24-Nov-22	13:01	64	68	57	0.2	Cloudy	75
30-Nov-22	11:27	64	67	57	0.3	Cloudy	75
	Max	65					
	Min	64					

Note:

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

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



Noise Monitoring Results

Water Quality Monitoring Results

Contract No. SPW 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	3/11/2022	Mid-Flood	Fine	Moderate	17:23	1	M	0.5	1	0.123	344	7.84	7.84	4.27	4.27	22.37	22.38	74.1	74.0	6.40	6.39	22.5	22.5	26	28
M1	3/11/2022	Mid-Flood	Fine	Moderate	17:23	1	M	0.5	2			7.83		4.26		22.38		73.9		6.38		22.5		30	
M2	3/11/2022	Mid-Flood	Fine	Moderate	17:08	0.9	M	0.45	1	0.105	309	7.92	7.93	3.59	3.59	21.82	21.83	76.6	76.5	6.59	6.59	22.0	22.1	32	34
M2	3/11/2022	Mid-Flood	Fine	Moderate	17:08	0.9	M	0.45	2			7.93		3.58		21.83		76.4		6.58		22.1		35	
M3	3/11/2022	Mid-Flood	Cloudy	Smooth	17:01	0.6	M	0.3	1	0.325	78	7.73	7.72	7.84	7.85	23.27	23.27	67.1	66.7	5.69	5.66	35.2	35.7	42	43
M3	3/11/2022	Mid-Flood	Cloudy	Smooth	17:01	0.6	M	0.3	2			7.71		7.85		23.26		66.3		5.63		36.1		44	
M1	3/11/2022	Mid-Ebb	Fine	Moderate	9:12	0.9	M	0.45	1	0.046	92	7.80	7.81	7.34	7.35	22.22	22.23	54.6	54.9	4.72	4.77	27.7	27.7	37	37
M1	3/11/2022	Mid-Ebb	Fine	Moderate	9:12	0.9	M	0.45	2			7.81		7.35		22.24		55.2		4.81		27.7		37	
M2	3/11/2022	Mid-Ebb	Fine	Moderate	9:36	0.8	M	0.4	1	0.084	114	7.90	7.91	7.64	7.65	22.37	22.38	55.8	56.0	4.83	4.85	26.4	26.5	32	32
M2	3/11/2022	Mid-Ebb	Fine	Moderate	9:36	0.8	M	0.4	2			7.91		7.65		22.39		56.1		4.87		26.5		31	
M3	3/11/2022	Mid-Ebb	Cloudy	Smooth	9:13	0.8	M	0.4	1	0.317	260	7.42	7.43	5.37	5.37	20.17	20.18	45.1	45.5	3.73	3.76	40.0	39.6	37	39
M3	3/11/2022	Mid-Ebb	Cloudy	Smooth	9:13	0.8	M	0.4	2			7.44		5.36		20.18		45.8		3.78		39.2		41	

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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	5/11/2022	Mid-Flood	Fine	Moderate	18:31	1.3	M	0.65	1	0.077	247	7.82	7.83	5.44	5.46	22.07	22.06	63.4	63.6	5.28	5.29	10.1	10.1	12	12
M1	5/11/2022	Mid-Flood	Fine	Moderate	18:31	1.3	M	0.65	2			7.83		5.47		22.04		63.8		5.29		10.1		12	
M2	5/11/2022	Mid-Flood	Fine	Moderate	18:13	1.1	M	0.55	1	0.084	209	7.64	7.64	5.39	5.37	22.19	22.24	59.1	59.4	4.93	4.97	10.2	10.2	19	18
M2	5/11/2022	Mid-Flood	Fine	Moderate	18:13	1.1	M	0.55	2			7.63		5.34		22.28		59.7		5.01		10.2		17	
M3	5/11/2022	Mid-Flood	Cloudy	Smooth	18:13	0.8	M	0.4	1	0.351	84	7.76	7.75	8.01	8.02	22.83	22.83	54.1	54.5	4.54	4.57	12.6	12.8	15	16
M3	5/11/2022	Mid-Flood	Cloudy	Smooth	18:13	0.8	M	0.4	2			7.74		8.02		22.82		54.8		4.59		13.0		16	
M1	5/11/2022	Mid-Ebb	Fine	Moderate	11:28	1.1	M	0.55	1	0.081	20	7.66	7.65	6.67	6.68	22.39	22.27	45.7	46.0	4.62	4.64	10.7	10.7	13	14
M1	5/11/2022	Mid-Ebb	Fine	Moderate	11:28	1.1	M	0.55	2			7.64		6.69		22.14		46.2		4.65		10.7		14	
M2	5/11/2022	Mid-Ebb	Fine	Moderate	11:42	0.9	M	0.45	1	0.063	88	7.59	7.59	6.92	6.93	21.94	21.97	50.3	50.2	4.92	4.91	10.4	10.4	13	12
M2	5/11/2022	Mid-Ebb	Fine	Moderate	11:42	0.9	M	0.45	2			7.58		6.94		21.99		50.1		4.89		10.4		11	
M3	5/11/2022	Mid-Ebb	Cloudy	Smooth	11:22	0.6	M	0.3	1	0.332	274	7.48	7.49	3.94	3.95	20.43	20.44	67.8	67.5	5.79	5.77	21.6	21.2	28	28
M3	5/11/2022	Mid-Ebb	Cloudy	Smooth	11:22	0.6	M	0.3	2			7.49		3.96		20.44		67.1		5.75		20.9		27	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	8/11/2022	Mid-Flood	Fine	Moderate	19:37	1	M	0.5	1	0.049	198	7.82	7.83	4.06	4.07	21.94	21.93	58.7	58.7	5.13	5.12	26.1	26.1	25	25
M1	8/11/2022	Mid-Flood	Fine	Moderate	19:37	1	M	0.5	2			7.83		4.07		21.92		58.6		5.11		26.0		26.1	
M2	8/11/2022	Mid-Flood	Fine	Moderate	19:19	1.2	M	0.6	1	0.084	142	7.77	7.73	3.73	3.74	22.06	22.08	56.1	56.4	4.93	4.95	24.3	24.2	43	43
M2	8/11/2022	Mid-Flood	Fine	Moderate	19:19	1.2	M	0.6	2			7.69		3.74		22.09		56.7		4.97		24.2		24.2	
M3	8/11/2022	Mid-Flood	Cloudy	Calm	19:13	0.8	M	0.4	1	0.319	83	7.91	7.92	5.16	5.17	22.17	22.16	61.8	62.4	5.22	5.27	27.5	27.9	37	37
M3	8/11/2022	Mid-Flood	Cloudy	Calm	19:13	0.8	M	0.4	2			7.92		5.17		22.15		62.9		5.31		28.3		28.3	
M1	8/11/2022	Mid-Ebb	Fine	Moderate	13:25	1	M	0.5	1	0.073	93	7.65	7.66	4.12	4.13	22.81	22.83	49.2	49.3	4.37	4.38	28.2	28.2	37	38
M1	8/11/2022	Mid-Ebb	Fine	Moderate	13:25	1	M	0.5	2			7.66		4.14		22.84		49.4		4.39		28.2		28.2	
M2	8/11/2022	Mid-Ebb	Fine	Moderate	13:43	0.9	M	0.45	1	0.129	313	7.61	7.62	4.92	4.93	22.94	22.95	53.7	53.6	4.51	4.50	27.3	27.3	27	27
M2	8/11/2022	Mid-Ebb	Fine	Moderate	13:43	0.9	M	0.45	2			7.62		4.93		22.96		53.4		4.48		27.3		27.3	
M3	8/11/2022	Mid-Ebb	Cloudy	Calm	13:28	0.6	M	0.3	1	0.303	266	7.65	7.65	3.29	3.28	22.91	22.92	69.1	68.7	5.89	5.86	25.9	25.5	28	29
M3	8/11/2022	Mid-Ebb	Cloudy	Calm	13:28	0.6	M	0.3	2			7.64		3.27		22.92		68.2		5.83		25.1		25.1	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	10/11/2022	Mid-Flood	Fine	Moderate	20:03	1.3	M	0.65	1	0.086	96	7.82	7.83	5.37	5.37	25.12	25.13	63.4	63.7	5.48	5.49	27.4	27.4	17	17
M1	10/11/2022	Mid-Flood	Fine	Moderate	20:03	1.3	M	0.65	2			7.83		5.36		25.14		63.9		5.49		27.4		17	
M2	10/11/2022	Mid-Flood	Fine	Moderate	19:45	1	M	0.5	1	0.106	75	7.78	7.79	5.29	5.29	24.11	24.14	58.7	58.7	5.11	5.11	28.5	28.5	39	40
M2	10/11/2022	Mid-Flood	Fine	Moderate	19:45	1	M	0.5	2			7.79		5.28		24.17		58.6		5.10		28.4		41	
M3	10/11/2022	Mid-Flood	Fine	Calm	19:46	0.8	M	0.4	1	0.341	95	7.90	7.89	5.35	5.36	26.04	26.05	63.8	64.1	5.09	5.11	33.0	32.3	41	43
M3	10/11/2022	Mid-Flood	Fine	Calm	19:46	0.8	M	0.4	2			7.88		5.37		26.05		64.4		5.13		31.7		44	
M1	10/11/2022	Mid-Ebb	Fine	Moderate	14:35	0.9	M	0.45	1	0.063	175	7.92	7.93	4.49	4.49	23.94	23.93	50.8	50.8	4.46	4.46	26.6	26.6	34	35
M1	10/11/2022	Mid-Ebb	Fine	Moderate	14:35	0.9	M	0.45	2			7.93		4.48		23.92		50.7		4.45		26.6		36	
M2	10/11/2022	Mid-Ebb	Fine	Moderate	14:51	0.8	M	0.4	1	0.086	98	7.84	7.85	4.81	4.82	24.56	24.57	54.2	54.5	4.67	4.68	25.9	25.9	33	32
M2	10/11/2022	Mid-Ebb	Fine	Moderate	14:51	0.8	M	0.4	2			7.86		4.82		24.57		54.8		4.69		25.9		30	
M3	10/11/2022	Mid-Ebb	Fine	Calm	14:37	0.6	M	0.3	1	0.302	262	7.56	7.57	2.89	2.89	27.54	27.55	73.2	72.8	5.91	5.88	41.8	41.5	43	44
M3	10/11/2022	Mid-Ebb	Fine	Calm	14:37	0.6	M	0.3	2			7.57		2.88		27.56		72.4		5.85		41.3		44	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	12/11/2022	Mid-Flood	Fine	Moderate	20:54	1.3	M	0.65	1	0.056	99	7.23	7.24	4.34	4.33	24.11	24.14	68.4	68.7	5.30	5.32	14.6	14.6	18	19
M1	12/11/2022	Mid-Flood	Fine	Moderate	20:54	1.3	M	0.65	2			7.24		4.31		24.16		68.9		5.34		14.6		19	
M2	12/11/2022	Mid-Flood	Fine	Moderate	20:37	1	M	0.5	1	0.07	73	7.46	7.45	4.11	4.13	24.73	24.79	67.2	67.3	5.11	5.13	14.2	14.2	21	22
M2	12/11/2022	Mid-Flood	Fine	Moderate	20:37	1	M	0.5	2			7.44		4.14		24.85		67.4		5.14		14.3		22	
M3	12/11/2022	Mid-Flood	Cloudy	Calm	20:28	1	M	0.5	1	0.347	92	7.94	7.94	5.27	5.27	25.31	25.31	67.8	67.6	5.46	5.45	16.6	16.3	24	24
M3	12/11/2022	Mid-Flood	Cloudy	Calm	20:28	1	M	0.5	2			7.93		5.26		25.31		67.3		5.43		16.1		24	
M1	12/11/2022	Mid-Ebb	Fine	Moderate	15:51	1.2	M	0.6	1	0.092	164	7.83	7.84	4.53	4.55	25.24	25.24	56.7	56.8	4.43	4.45	13.2	13.2	21	20
M1	12/11/2022	Mid-Ebb	Fine	Moderate	15:51	1.2	M	0.6	2			7.84		4.57		25.23		56.8		4.46		13.2		19	
M2	12/11/2022	Mid-Ebb	Fine	Moderate	16:20	0.9	M	0.45	1	0.123	98	7.74	7.75	5.11	5.12	25.97	25.98	60.1	60.2	4.86	4.88	13.6	13.6	19	20
M2	12/11/2022	Mid-Ebb	Fine	Moderate	16:20	0.9	M	0.45	2			7.76		5.13		25.99		60.3		4.89		13.6		20	
M3	12/11/2022	Mid-Ebb	Cloudy	Calm	15:42	0.6	M	0.3	1	0.321	276	7.63	7.63	2.94	2.93	26.86	26.87	73.6	73.4	5.99	5.98	25.3	24.8	19	20
M3	12/11/2022	Mid-Ebb	Cloudy	Calm	15:42	0.6	M	0.3	2			7.62		2.92		26.87		73.2		5.96		24.4		21	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	15/11/2022	Mid-Flood	Cloudy	Smooth	13:37	2	M	1	1	0.324	274	7.75	7.76	8.22	8.23	27.31	27.32	67.1	67.5	5.33	5.36	11.2	11.5	16	16
M1	15/11/2022	Mid-Flood	Cloudy	Smooth	13:37	2	M	1	2			7.77		8.23		27.33		67.8		5.38		5.36		11.8	
M2	15/11/2022	Mid-Flood	Cloudy	Smooth	14:03	1	M	0.5	1	0.297	315	7.86	7.86	7.29	7.29	27.93	27.94	64.3	63.9	5.11	5.08	13.1	13.5	18	17
M2	15/11/2022	Mid-Flood	Cloudy	Smooth	14:03	1	M	0.5	2			7.85		7.28		27.94		63.4		5.05		5.08		13.9	
M3	15/11/2022	Mid-Flood	Fine	Moderate	13:30	1.2	M	0.6	1	0.063	78	7.57	7.56	6.70	6.71	26.29	26.29	56.1	56.0	4.92	4.88	24.9	24.9	36	36
M3	15/11/2022	Mid-Flood	Fine	Moderate	13:30	1.2	M	0.6	2			7.54		6.71		26.28		55.8		4.84		4.88		24.9	
M1	15/11/2022	Mid-Ebb	Cloudy	Smooth	18:18	2.2	M	1.1	1	0.21	193	7.57	7.57	6.94	6.94	26.37	26.36	52.9	52.6	4.21	4.19	25.2	24.7	35	37
M1	15/11/2022	Mid-Ebb	Cloudy	Smooth	18:18	2.2	M	1.1	2			7.57		6.93		26.35		52.2		4.17		4.19		24.3	
M2	15/11/2022	Mid-Ebb	Cloudy	Smooth	17:49	1.2	M	0.6	1	0.183	226	7.68	7.69	6.76	6.75	26.84	26.83	48.1	48.4	3.83	3.85	17.5	17.3	15	16
M2	15/11/2022	Mid-Ebb	Cloudy	Smooth	17:49	1.2	M	0.6	2			7.69		6.74		26.82		48.6		3.86		3.85		17.1	
M3	15/11/2022	Mid-Ebb	Fine	Moderate	17:40	0.9	M	0.45	1	0.054	99	7.62	7.63	6.21	6.22	26.15	26.15	60.2	60.3	5.21	5.22	19.9	19.9	20	20
M3	15/11/2022	Mid-Ebb	Fine	Moderate	17:40	0.9	M	0.45	2			7.64		6.22		26.14		60.4		5.23		5.22		19.8	

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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	17/11/2022	Mid-Flood	Fine	Moderate	16:14	1	M	0.5	1	0.08	324	7.54	7.53	8.01	8.02	26.13	26.14	69.3	69.3	5.83	5.82	13.3	13.3	19	21
M1	17/11/2022	Mid-Flood	Fine	Moderate	16:14	1	M	0.5	2			7.52		8.03		26.14		69.2		5.81		13.3		22	
M2	17/11/2022	Mid-Flood	Fine	Moderate	15:55	0.8	M	0.4	1	0.046	72	7.74	7.74	8.09	8.09	26.92	26.93	64.2	64.4	5.43	5.46	13.6	13.7	21	21
M2	17/11/2022	Mid-Flood	Fine	Moderate	15:55	0.8	M	0.4	2			7.73		8.08		26.94		64.6		5.49		13.7		20	
M3	17/11/2022	Mid-Flood	Fine	Calm	15:48	0.4	M	0.2	1	0.299	85	7.94	7.95	8.04	8.05	27.05	27.06	57.5	58.0	4.43	4.46	21.6	21.1	19	19
M3	17/11/2022	Mid-Flood	Fine	Calm	15:48	0.4	M	0.2	2			7.95		8.06		27.06		58.4		4.49		20.7		19	
M1	17/11/2022	Mid-Ebb	Fine	Moderate	7:10	1.1	M	0.55	1	0.086	92	7.71	7.72	8.90	8.91	26.56	26.55	58.7	58.8	4.81	4.84	16.7	16.8	20	19
M1	17/11/2022	Mid-Ebb	Fine	Moderate	7:10	1.1	M	0.55	2			7.73		8.92		26.54		58.9		4.86		16.8		18	
M2	17/11/2022	Mid-Ebb	Fine	Moderate	7:33	0.9	M	0.45	1	0.075	186	7.74	7.75	8.74	8.74	26.32	26.32	60.8	60.8	4.92	4.93	16.1	16.2	12	12
M2	17/11/2022	Mid-Ebb	Fine	Moderate	7:33	0.9	M	0.45	2			7.75		8.73		26.31		60.7		4.93		16.3		12	
M3	17/11/2022	Mid-Ebb	Fine	Calm	7:09	0.6	M	0.3	1	0.33	274	7.69	7.68	6.26	6.26	23.19	23.18	51.7	51.4	3.95	3.93	30.5	31.0	21	23
M3	17/11/2022	Mid-Ebb	Fine	Calm	7:09	0.6	M	0.3	2			7.67		6.25		23.17		51.1		3.91		31.6		24	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	19/11/2022	Mid-Flood	Fine	Moderate	17:08	1	M	0.5	1	0.058	333	7.83	7.84	8.59	8.58	26.23	26.26	68.3	68.4	5.17	5.19	20.4	20.3	8	9
M1	19/11/2022	Mid-Flood	Fine	Moderate	17:08	1	M	0.5	2			7.84		8.56		26.28		68.4		5.20		20.3		9	
M2	19/11/2022	Mid-Flood	Fine	Moderate	16:49	0.9	M	0.45	1	0.033	304	7.93	7.94	8.41	8.42	27.13	27.14	50.2	50.5	4.29	4.32	19.2	19.3	17	18
M2	19/11/2022	Mid-Flood	Fine	Moderate	16:49	0.9	M	0.45	2			7.94		8.43		27.14		50.8		4.34		19.3		19	
M3	19/11/2022	Mid-Flood	Cloudy	Calm	16:54	0.6	M	0.3	1	0.353	77	7.94	7.94	8.94	8.95	28.83	28.84	53.5	53.7	4.01	4.03	21.3	21.8	28	27
M3	19/11/2022	Mid-Flood	Cloudy	Calm	16:54	0.6	M	0.3	2			7.93		8.96		28.84		53.9		4.04		22.3		25	
M1	19/11/2022	Mid-Ebb	Fine	Moderate	10:04	0.8	M	0.4	1	0.046	91	7.81	7.85	8.88	8.89	26.45	26.47	57.8	57.8	4.42	4.43	18.5	18.5	11	11
M1	19/11/2022	Mid-Ebb	Fine	Moderate	10:04	0.8	M	0.4	2			7.88		8.89		26.48		57.7		4.44		18.5		10	
M2	19/11/2022	Mid-Ebb	Fine	Moderate	10:20	0.7	M	0.35	1	0.077	143	7.74	7.74	8.71	8.72	26.97	26.96	62.8	62.6	4.59	4.57	19.2	19.2	25	27
M2	19/11/2022	Mid-Ebb	Fine	Moderate	10:20	0.7	M	0.35	2			7.73		8.73		26.94		62.4		4.54		19.2		28	
M3	19/11/2022	Mid-Ebb	Cloudy	Calm	9:58	0.4	M	0.2	1	0.333	267	7.68	7.69	6.88	6.88	25.97	25.98	48.4	48.8	3.65	3.68	18.4	18.6	28	27
M3	19/11/2022	Mid-Ebb	Cloudy	Calm	9:58	0.4	M	0.2	2			7.69		6.87		25.98		49.2		3.71		18.8		26	

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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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/11/2022	Mid-Flood	Fine	Moderate	6:43	1.2	M	0.6	1	0.083	93	7.13	7.13	10.64	10.65	25.44	25.38	60.1	60.2	4.67	4.68	13.6	13.6	23	23
M1	22/11/2022	Mid-Flood	Fine	Moderate	6:43	1.2	M	0.6	2			7.12		10.66		25.32		60.3		4.69		13.6		23	
M2	22/11/2022	Mid-Flood	Fine	Moderate	7:03	1	M	0.5	1	0.054	264	7.27	7.27	10.84	10.86	25.11	25.14	63.2	63.2	4.82	4.83	13.1	13.1	20	19
M2	22/11/2022	Mid-Flood	Fine	Moderate	7:03	1	M	0.5	2			7.26		10.88		25.17		63.1		4.83		13.1		18	
M3	22/11/2022	Mid-Flood	Cloudy	Calm	6:47	0.6	M	0.3	1	0.285	79	7.51	7.52	10.15	10.14	21.68	21.69	73.1	73.4	5.63	5.65	12.0	12.2	16	16
M3	22/11/2022	Mid-Flood	Cloudy	Calm	6:47	0.6	M	0.3	2			7.52		10.13		21.69		73.7		5.67		12.4		16	
M1	22/11/2022	Mid-Ebb	Fine	Moderate	12:52	0.9	M	0.45	1	0.07	54	7.29	7.29	9.54	9.56	25.39	25.38	50.1	50.4	4.23	4.24	16.4	16.4	15	17
M1	22/11/2022	Mid-Ebb	Fine	Moderate	12:52	0.9	M	0.45	2			7.28		9.58		25.37		50.6		4.24		16.4		18	
M2	22/11/2022	Mid-Ebb	Fine	Moderate	12:34	0.8	M	0.4	1	0.074	77	7.34	7.33	9.79	9.78	25.07	25.06	49.2	49.3	4.11	4.14	16.8	16.9	18	19
M2	22/11/2022	Mid-Ebb	Fine	Moderate	12:34	0.8	M	0.4	2			7.32		9.77		25.05		49.3		4.16		16.9		20	
M3	22/11/2022	Mid-Ebb	Cloudy	Calm	12:31	0.6	M	0.3	1	0.261	263	7.34	7.35	8.91	8.91	25.26	25.27	78.5	78.1	6.13	6.09	15.6	16.1	16	16
M3	22/11/2022	Mid-Ebb	Cloudy	Calm	12:31	0.6	M	0.3	2			7.36		8.91		25.27		77.6		6.05		16.5		15	

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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	24/11/2022	Mid-Flood	Fine	Moderate	8:47	1.1	M	0.55	1	0.085	13	7.14	7.16	8.62	8.64	24.33	24.31	52.6	52.4	4.20	4.19	27.4	27.4	24	22
M1	24/11/2022	Mid-Flood	Fine	Moderate	8:47	1.1	M	0.55	2			7.17		8.66		24.29		52.1		4.18		27.4		20	
M2	24/11/2022	Mid-Flood	Fine	Moderate	9:03	0.9	M	0.45	1	0.049	83	7.34	7.33	8.44	8.43	24.01	24.02	60.8	60.7	4.51	4.50	28.1	28.1	18	19
M2	24/11/2022	Mid-Flood	Fine	Moderate	9:03	0.9	M	0.45	2			7.32		8.41		24.03		60.6		4.48		28.1		19	
M3	24/11/2022	Mid-Flood	Cloudy	Smooth	8:42	0.6	M	0.3	1	0.344	85	7.53	7.54	8.39	8.40	22.04	22.05	75.7	75.5	6.05	6.04	38.6	39.0	44	45
M3	24/11/2022	Mid-Flood	Cloudy	Smooth	8:42	0.6	M	0.3	2			7.54		8.41		22.05		75.2		6.03		39.3		45	
M1	24/11/2022	Mid-Ebb	Fine	Moderate	14:21	0.9	M	0.45	1	0.104	99	7.51	7.52	7.09	7.07	25.09	25.10	70.1	70.3	5.23	5.26	22.9	23.0	20	21
M1	24/11/2022	Mid-Ebb	Fine	Moderate	14:21	0.9	M	0.45	2			7.52		7.04		25.11		70.4		5.28		23.0		22	
M2	24/11/2022	Mid-Ebb	Fine	Moderate	14:03	0.7	M	0.35	1	0.068	73	7.55	7.57	7.06	7.05	24.08	24.09	67.2	67.3	4.98	5.00	24.2	24.3	31	30
M2	24/11/2022	Mid-Ebb	Fine	Moderate	14:03	0.7	M	0.35	2			7.58		7.04		24.09		67.4		5.01		24.3		29	
M3	24/11/2022	Mid-Ebb	Cloudy	Smooth	14:05	0.6	M	0.3	1	0.304	256	7.37	7.36	5.91	5.92	23.12	23.12	80.9	80.6	6.52	6.50	30.1	29.8	43	41
M3	24/11/2022	Mid-Ebb	Cloudy	Smooth	14:05	0.6	M	0.3	2			7.35		5.92		23.11		80.3		6.48		29.4		39	

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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	26/11/2022	Mid-Flood	Fine	Moderate	10:27	1.2	M	0.6	1	0.063	92	7.57	7.56	7.86	7.85	23.49	23.45	51.1	50.9	4.86	4.85	27.1	27.2	25	26
M1	26/11/2022	Mid-Flood	Fine	Moderate	10:27	1.2	M	0.6	2			7.54		7.84		23.41		50.7		4.84		27.2		26	
M2	26/11/2022	Mid-Flood	Fine	Moderate	10:42	0.9	M	0.45	1	0.075	34	7.44	7.43	7.92	7.93	24.11	24.12	53.8	53.9	4.97	4.98	26.4	26.4	21	22
M2	26/11/2022	Mid-Flood	Fine	Moderate	10:42	0.9	M	0.45	2			7.41		7.93		24.12		53.9		4.98		26.4		23	
M3	26/11/2022	Mid-Flood	Cloudy	Calm	10:25	0.4	M	0.2	1	0.324	92	7.43	7.44	7.91	7.92	23.71	23.72	48.1	48.5	3.87	3.90	27.7	27.6	36	38
M3	26/11/2022	Mid-Flood	Cloudy	Calm	10:25	0.4	M	0.2	2			7.44		7.92		23.73		48.9		3.93		27.5		39	
M1	26/11/2022	Mid-Ebb	Fine	Moderate	15:49	1	M	0.5	1	0.056	87	8.22	8.23	4.63	4.62	24.11	24.15	91.3	91.4	7.72	7.73	27.3	27.3	19	20
M1	26/11/2022	Mid-Ebb	Fine	Moderate	15:49	1	M	0.5	2			8.23		4.61		24.18		91.4		7.73		27.2		21	
M2	26/11/2022	Mid-Ebb	Fine	Moderate	15:25	0.8	M	0.4	1	0.045	265	8.32	8.36	4.78	4.78	23.66	23.65	96.1	96.3	7.83	7.85	27.9	27.9	28	29
M2	26/11/2022	Mid-Ebb	Fine	Moderate	15:25	0.8	M	0.4	2			8.39		4.77		23.64		96.4		7.86		27.9		29	
M3	26/11/2022	Mid-Ebb	Cloudy	Calm	15:27	0.6	M	0.3	1	0.283	259	7.21	7.22	4.12	4.13	25.01	25.02	59.5	59.7	4.99	5.01	35.7	35.1	34	31
M3	26/11/2022	Mid-Ebb	Cloudy	Calm	15:27	0.6	M	0.3	2			7.23		4.14		25.02		59.8		5.02		34.5		28	

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	74.3	78.0	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 07/2020 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	Value	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	29/11/2022	Mid-Flood	Fine	Moderate	13:28	1.3	M	0.65	1	0.063	98	7.70	7.76	7.36	7.35	26.22	26.22	64.5	64.5	4.91	4.91	17.1	17.1	20	19
M1	29/11/2022	Mid-Flood	Fine	Moderate	13:28	1.3	M	0.65	2			7.81		7.33		26.21		64.4		4.90		17.1		17	
M2	29/11/2022	Mid-Flood	Fine	Moderate	13:48	1.1	M	0.55	1	0.039	134	7.82	7.83	7.44	7.47	26.01	26.02	58.4	58.4	4.72	4.71	17.5	17.5	22	23
M2	29/11/2022	Mid-Flood	Fine	Moderate	13:48	1.1	M	0.55	2			7.83		7.49		26.03		58.3		4.70		17.5		24	
M3	29/11/2022	Mid-Flood	Fine	Calm	13:26	0.4	M	0.2	1	0.352	79	7.59	7.60	8.36	8.37	28.88	28.89	58.3	57.9	4.72	4.70	25.9	25.4	31	32
M3	29/11/2022	Mid-Flood	Fine	Calm	13:26	0.4	M	0.2	2			7.61		8.38		28.89		57.5		4.67		24.9		33	
M1	29/11/2022	Mid-Ebb	Fine	Moderate	18:30	1.1	M	0.55	1	0.053	265	7.84	7.84	6.74	6.73	26.58	26.58	68.4	68.4	5.23	5.22	17.0	17.0	20	20
M1	29/11/2022	Mid-Ebb	Fine	Moderate	18:30	1.1	M	0.55	2			7.83		6.72		26.57		68.3		5.21		17.0		19	
M2	29/11/2022	Mid-Ebb	Fine	Moderate	18:11	0.9	M	0.45	1	0.038	91	7.91	7.92	6.85	6.86	26.44	26.44	59.2	59.3	4.84	4.85	16.7	16.7	18	19
M2	29/11/2022	Mid-Ebb	Fine	Moderate	18:11	0.9	M	0.45	2			7.92		6.87		26.44		59.3		4.85		16.7		20	
M3	29/11/2022	Mid-Ebb	Fine	Calm	18:13	0.8	M	0.4	1	0.284	272	7.31	7.32	6.65	6.65	28.31	28.32	53.8	54.2	4.14	4.17	19.7	19.2	24	24
M3	29/11/2022	Mid-Ebb	Fine	Calm	18:13	0.8	M	0.4	2			7.32		6.64		28.32		54.5		4.19		18.7		23	

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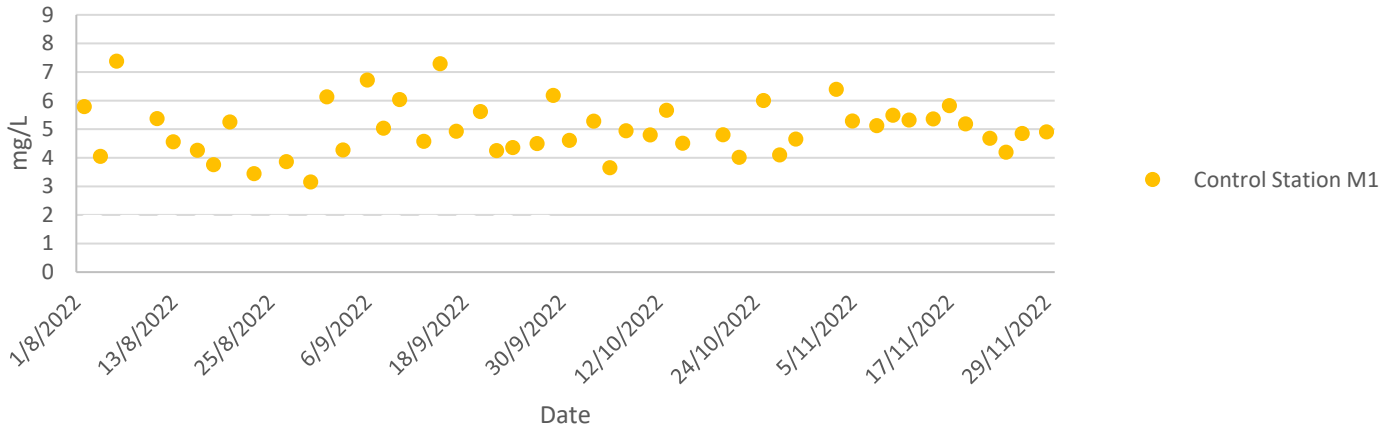
For Flood Tide

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	74.3	78.0	104	167

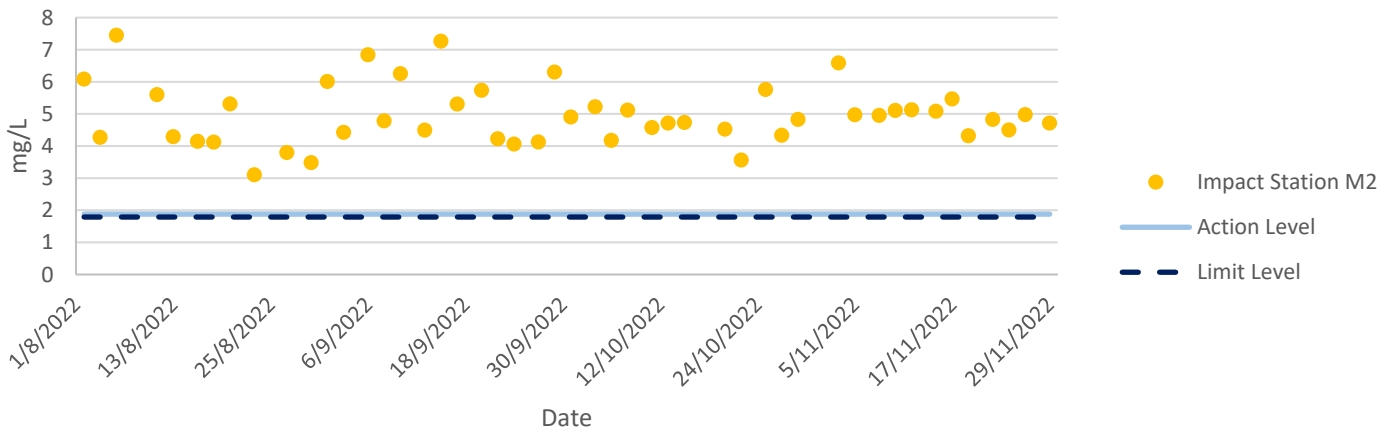
For Ebb Tide

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

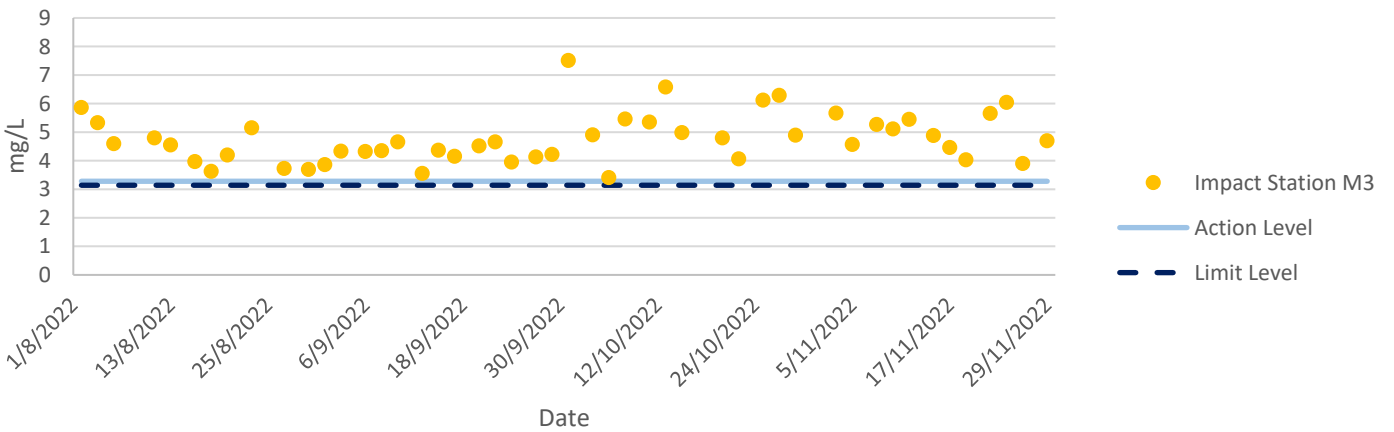
Dissolved Oxygen at Mid-Flood Tide



Dissolved Oxygen at Mid-Flood Tide

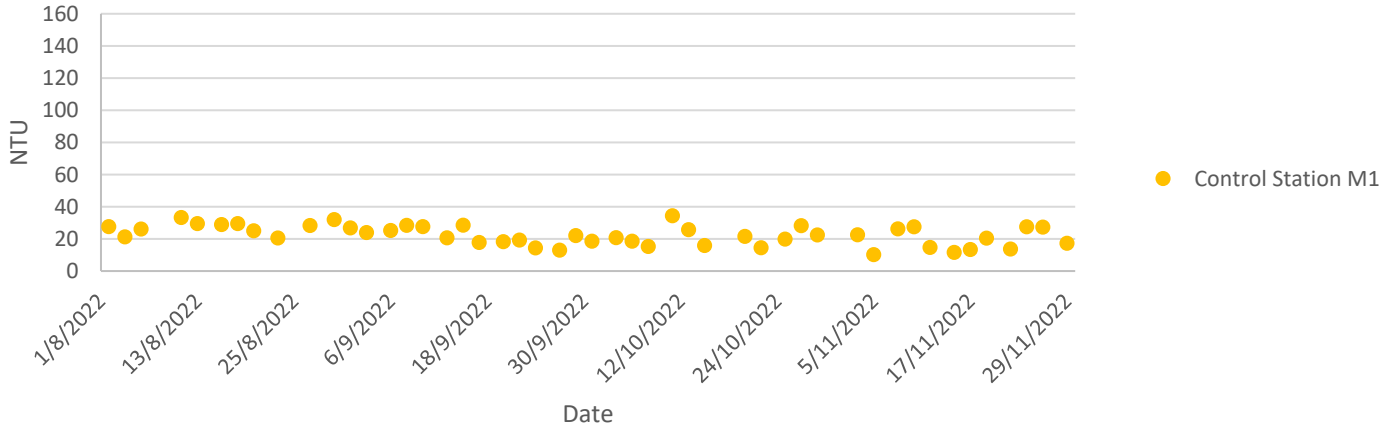


Dissolved Oxygen at Mid-Flood Tide

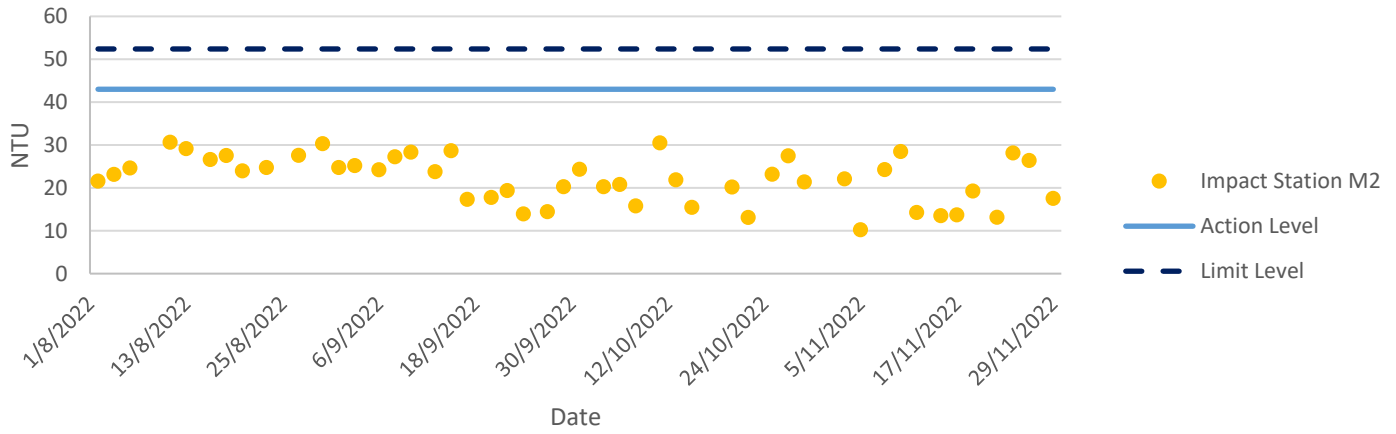


Water Quality Monitoring Results

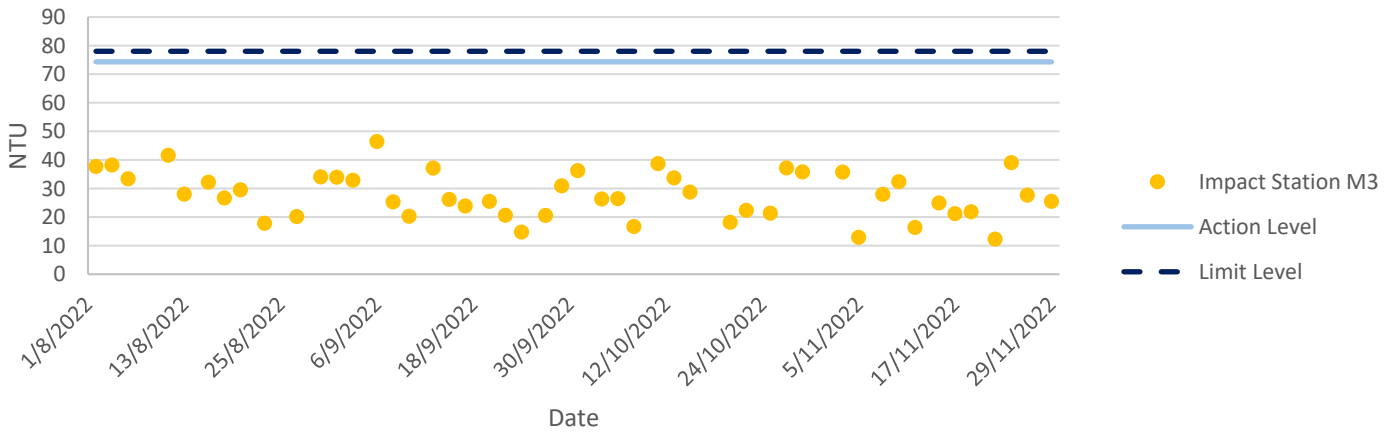
Turbidity at Mid-Flood Tide



Turbidity at Mid-Flood Tide

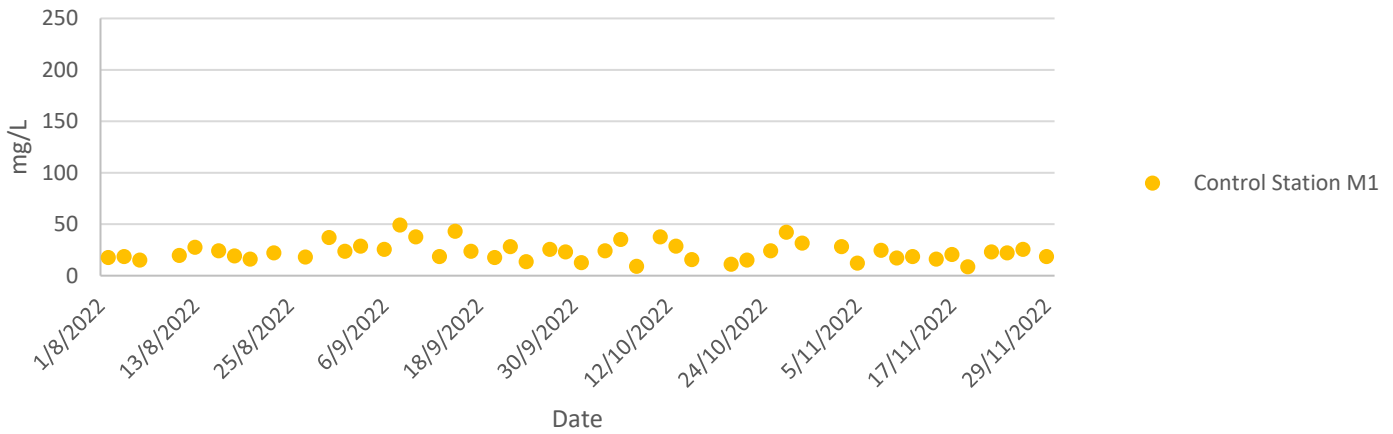


Turbidity at Mid-Flood Tide

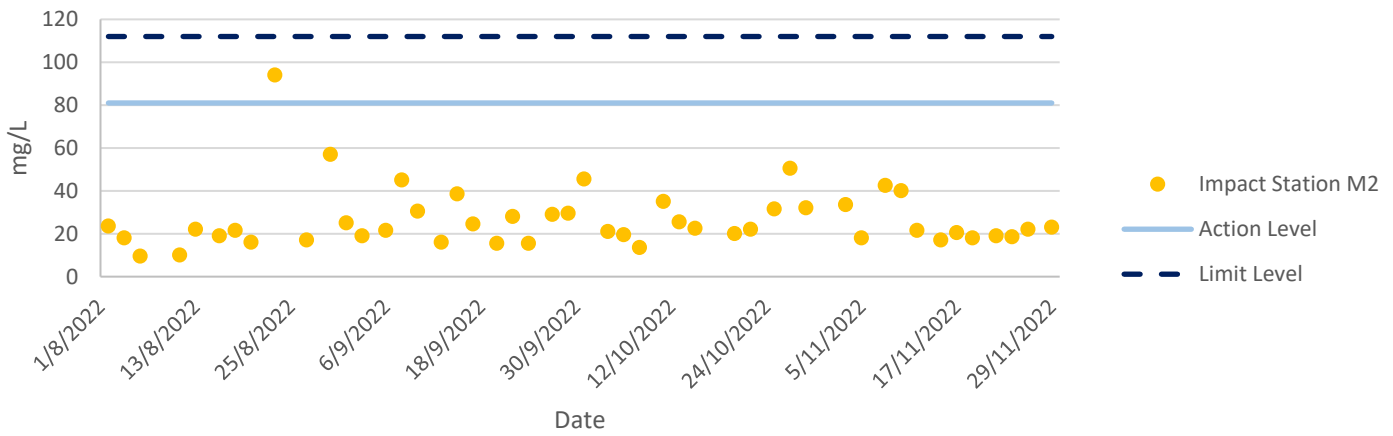


Water Quality Monitoring Results

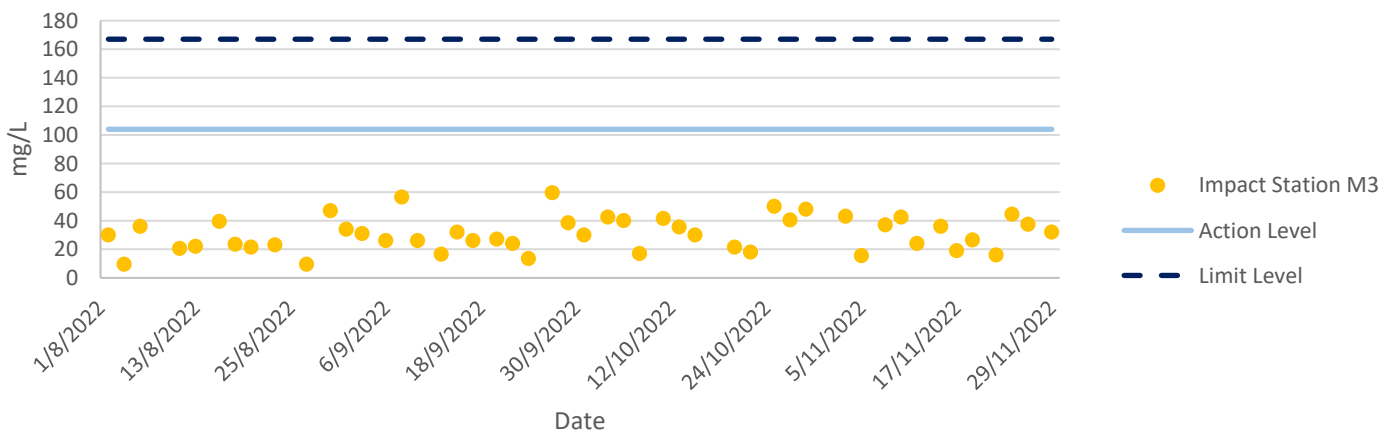
Total Suspended Solids at Mid-Flood Tide



Total Suspended Solids at Mid-Flood Tide

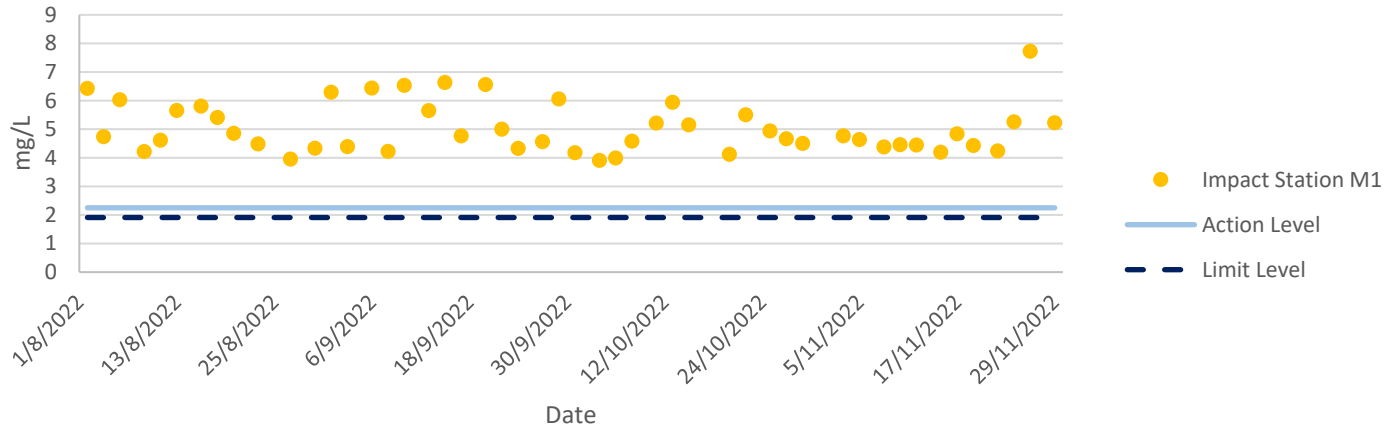


Total Suspended Solids at Mid-Flood Tide

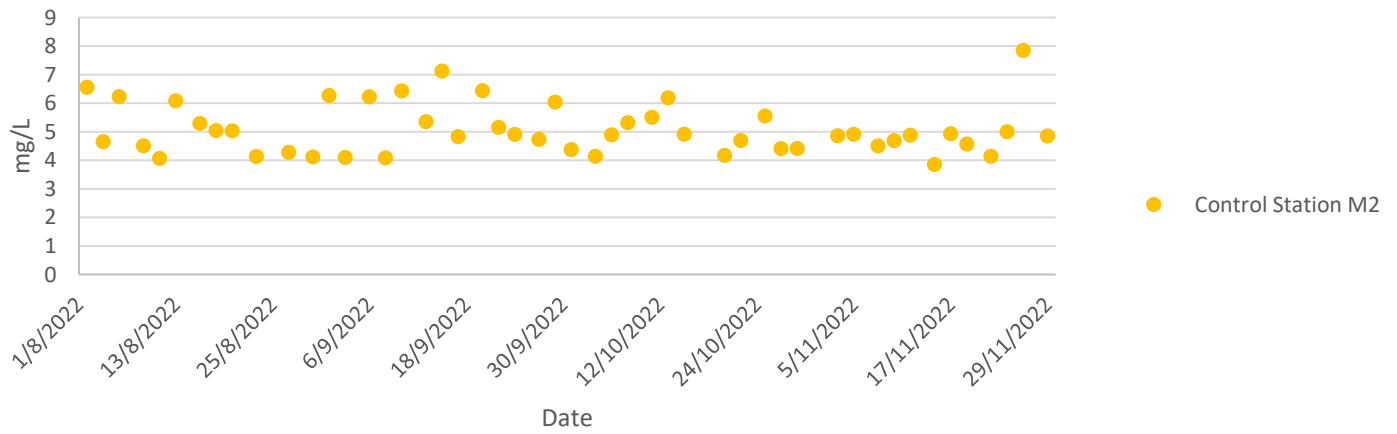


Water Quality Monitoring Results

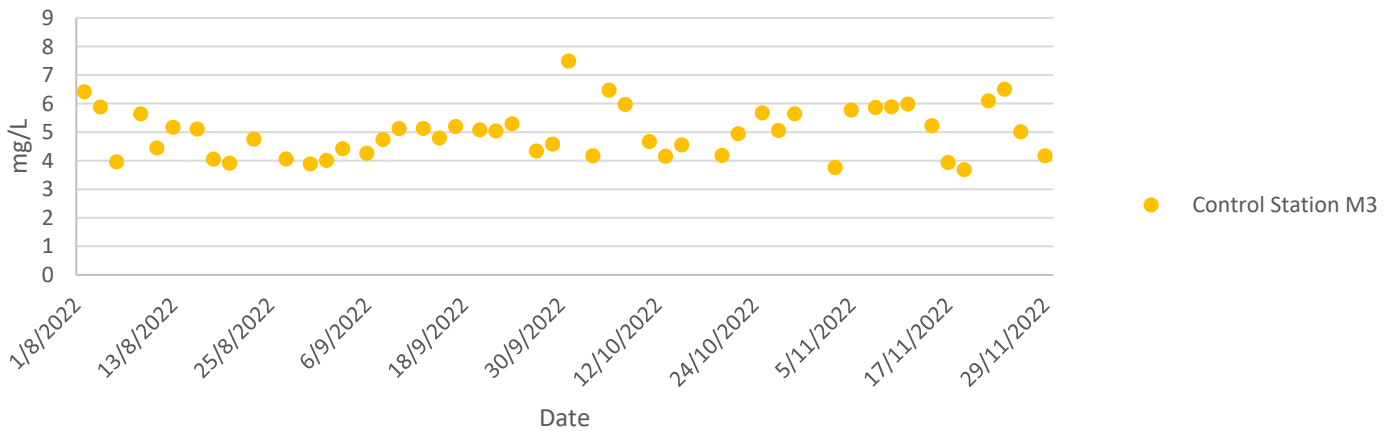
Dissolved Oxygen at Mid-Ebb Tide



Dissolved Oxygen at Mid-Ebb Tide

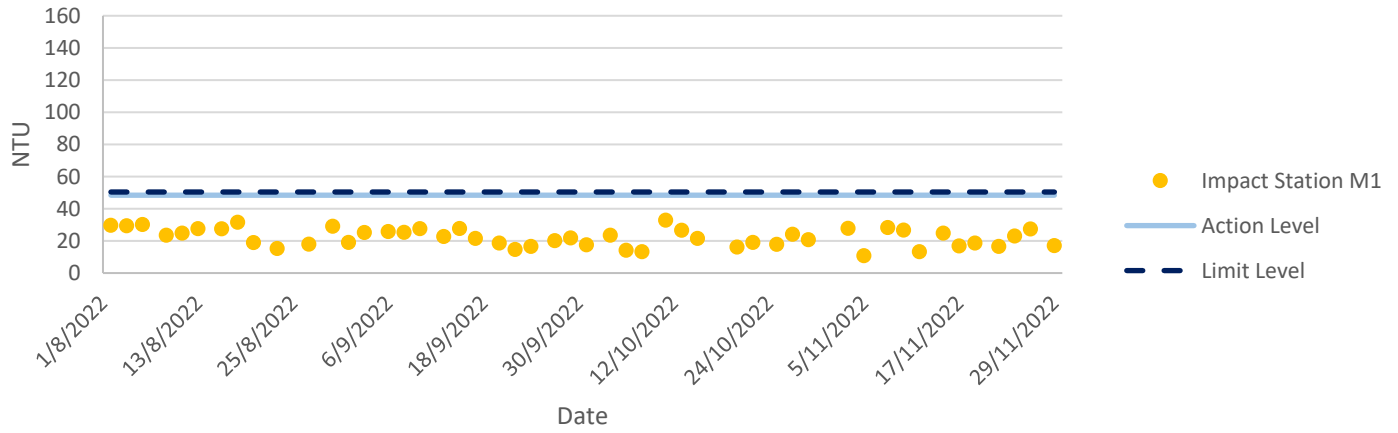


Dissolved Oxygen at Mid-Ebb Tide

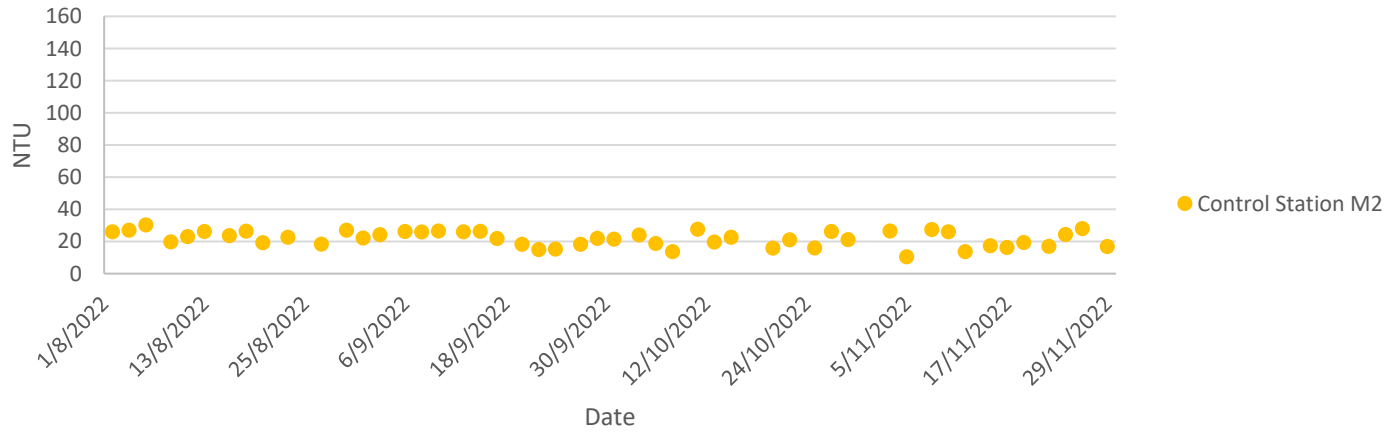


Water Quality Monitoring Results

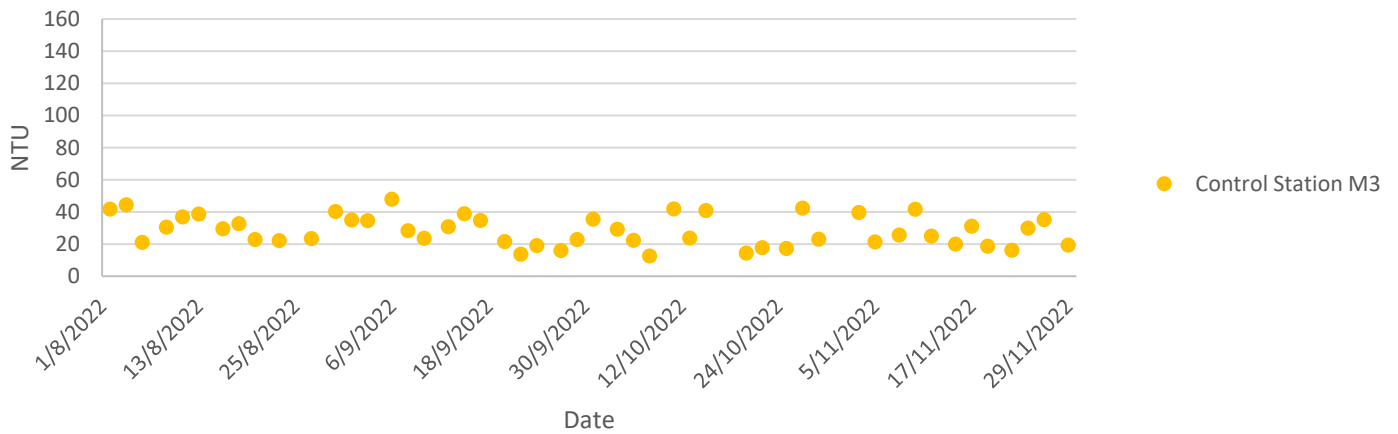
Turbidity at Mid-Ebb Tide



Turbidity at Mid-Ebb Tide

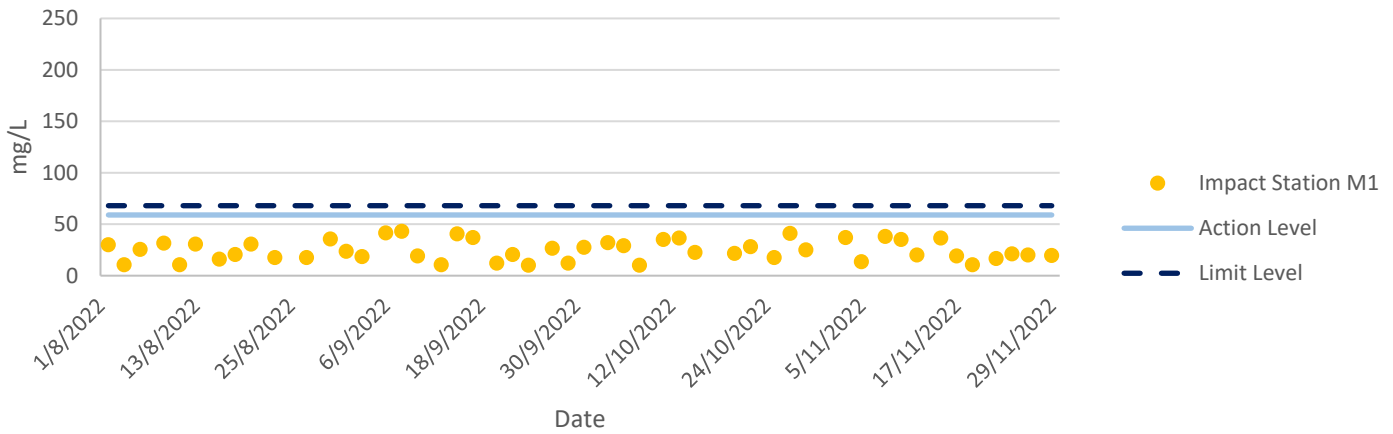


Turbidity at Mid-Ebb Tide

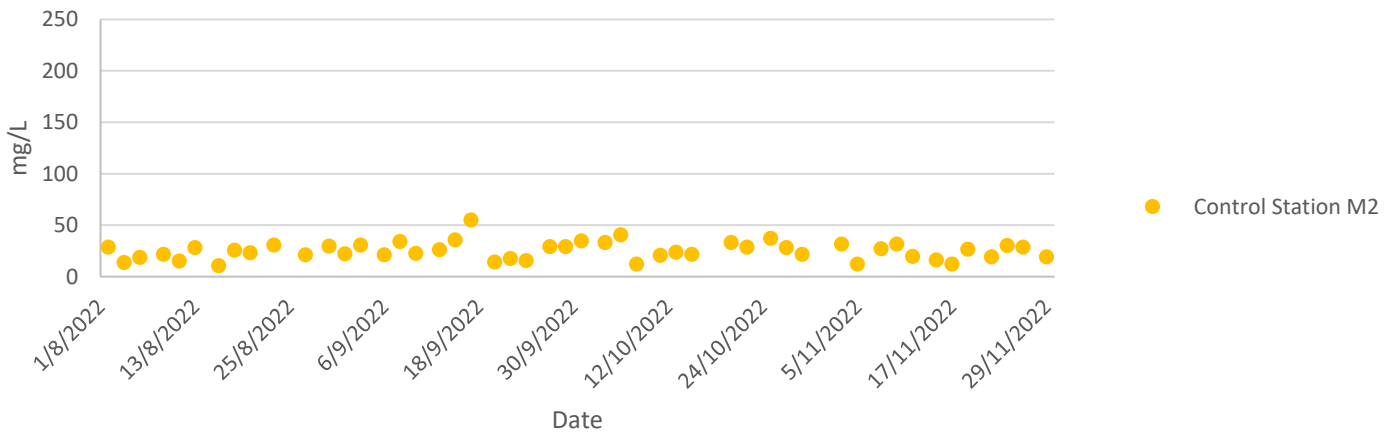


Water Quality Monitoring Results

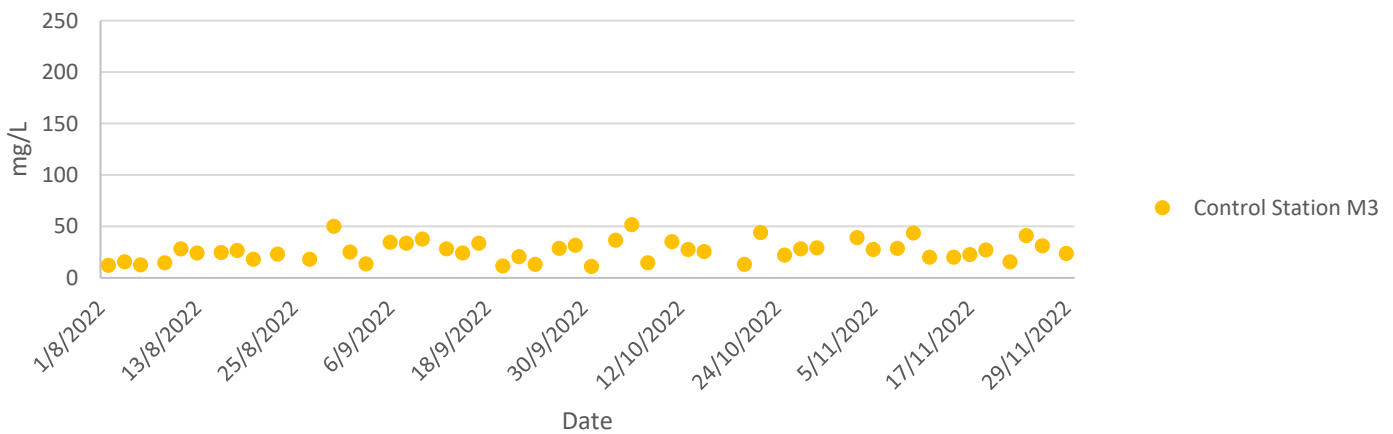
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Water Quality Monitoring Results

Ecology Monitoring Results

**Ecology Monitoring Results for
Contract No. SPW 07/2020
Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1**

Appendix F.1 Ecological Bird Monitoring Result (10 November 2022)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect/Point Count	Point Count (Location)/Transect Impact	Habitat	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ¹⁰	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Black-faced Bunting	<i>Emberiza spodocephala</i>	3	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Plantation-FLW	Common Tailorbird	<i>Orthotomus sutorius</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Plantation-FLW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	FLW1	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW1	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	3	Common	-	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW2	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW3	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	-	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW4	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Common Tailorbird	<i>Orthotomus sutorius</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Daurian Redstart	<i>Phoenicurus aureus</i>	1	Common	WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2	Common	-	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	4	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Abundant	R	-	-	-	LC	LC	N	N

10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Eurasian Wigeon	<i>Anas penelope</i>	1	Common	WV	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW6	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Great Cormorant	<i>Phalacrocorax carbo</i>	10	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	FLW	Point Count	FLW7	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Cinereous Tit	<i>Parus cinereus</i>	1	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Daurian Redstart	<i>Phoenicurus aureus</i>	1	Common	WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Plantation-NSW	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Plantation-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Transect	NSW	Modified Watercourse	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Daurian Redstart	<i>Phoenicurus aureus</i>	1	Common	WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Great Cormorant	<i>Phalacrocorax carbo</i>	62	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	Vulnerable	LC	LC	Y	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Plain Prinia	<i>Prinia inornata</i>	7	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	NSW1	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Eurasian Wigeon	<i>Anas penelope</i>	3	Common	WV	RC	-	-	LC	LC	Y	Y

10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Northern Shoveler	<i>Anas clypeata</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	3	Common	PM	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Common Sandpiper	<i>Actitis hypoleucos</i>	2	Common	PM,WV	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	-	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Eurasian Wigeon	<i>Anas penelope</i>	1	Common	WV	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	12	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	1	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	5	Common	PM	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	3	Common	R	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Great Cormorant	<i>Phalacrocorax carbo</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Grey Heron	<i>Ardea cinerea</i>	3	Common	WV	PRC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	4	Common	R	LC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Marsh Sandpiper	<i>Tringa stagnatilis</i>	2	Common	PM,WV	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Northern Shoveler	<i>Anas clypeata</i>	2	Abundant	WV	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
10/11/2022	Daytime	Dry Season	NSW	Point Count	SP/NSW3	Modified Watercourse	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y

10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Black-winged Stilt	<i>Himantopus himantopus</i>	2	Common	PM	RC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Common Kingfisher	<i>Alcedo atthis</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Common Moorhen	<i>Gallinula chloropus</i>	2	Common	R	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	2	Common	R,PM	-	-	-	LC	LC	N	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
10/11/2022	Daytime	Dry Season	YLIE	Transect	YLIE-CW	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N

Notes:

- (1) All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
- (2) AFCD (2021). Hong Kong Biodiversity Database.
- (3) Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
- (4) 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.
- (5) List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
- (6) Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book
- (7) IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
- (9) Wetland-dependent species (including wetland-dependent species and waterbirds).
- (10) 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 (10 November 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	10	0.044843	-3.10459	-0.13922	0.432218
<i>Actitis hypoleucos</i>	3	0.013453	-4.30856	-0.05796	0.249736
<i>Alcedo atthis</i>	1	0.004484	-5.40717	-0.02425	0.13111
<i>Amaurornis phoenicurus</i>	1	0.004484	-5.40717	-0.02425	0.13111
<i>Anas clypeata</i>	4	0.017937	-4.02088	-0.07212	0.289999
<i>Anas penelope</i>	5	0.008969	-4.71402	-0.04228	0.199301
<i>Ardea alba</i>	2	0.026906	-3.61541	-0.09728	0.351692
<i>Ardea cinerea</i>	6	0.022422	-3.79773	-0.08515	0.323381
<i>Ardeola bacchus</i>	5	0.004484	-5.40717	-0.02425	0.13111
<i>Centropus sinensis</i>	1	0.008969	-4.71402	-0.04228	0.199301
<i>Copsychus saularis</i>	2	0.044843	-3.10459	-0.13922	0.432218
<i>Egretta garzetta</i>	10	0.013453	-4.30856	-0.05796	0.249736
<i>Gallinula chloropus</i>	3	0.004484	-5.40717	-0.02425	0.13111
<i>Garrulax perspicillatus</i>	1	0.008969	-4.71402	-0.04228	0.199301
<i>Gracupica nigricollis</i>	2	0.044843	-3.10459	-0.13922	0.432218
<i>Himantopus himantopus</i>	10	0.017937	-4.02088	-0.07212	0.289999
<i>Motacilla alba</i>	4	0.004484	-5.40717	-0.02425	0.13111
<i>Motacilla cinerea</i>	1	0.013453	-4.30856	-0.05796	0.249736
<i>Orthotomus sutorius</i>	3	0.430493	-0.84282	-0.36283	0.305802
<i>Phalacrocorax carbo</i>	96	0.008969	-4.71402	-0.04228	0.199301
<i>Phoenicurus aureus</i>	2	0.09417	-2.36265	-0.22249	0.52567
<i>Prinia inornata</i>	21	0.03139	-3.46126	-0.10865	0.376064
<i>Pycnonotus jocosus</i>	7	0.026906	-3.61541	-0.09728	0.351692
<i>Spilopelia chinensis</i>	6	0.03139	-3.46126	-0.10865	0.376064
<i>Streptopelia decaocto</i>	7	0.035874	-3.32773	-0.11938	0.397266
<i>Tachybaptus ruficollis</i>	8	0.035874	-3.32773	-0.11938	0.397266
<i>Tringa stagnatilis</i>	2	0.008969	-4.71402	-0.04228	0.199301
Total	223	1.013453	-108.699	-2.3895	7.682808
Richness	27				
SS	7.682808				
SQ	5.70973				
H	2.3895				
S²_H	0.009109				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (10 November 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Anas clypeata</i>	5	0.012690	-4.366913	-0.055418	0.242004
<i>Anas penelope</i>	8	0.020305	-3.896909	-0.079125	0.308343
<i>Ardea alba</i>	14	0.035533	-3.337294	-0.118584	0.395750
<i>Ardea cinerea</i>	27	0.068528	-2.680514	-0.183690	0.492384
<i>Ardeola bacchus</i>	38	0.096447	-2.338765	-0.225566	0.527546
<i>Centropus sinensis</i>	2	0.005076	-5.283204	-0.026818	0.141687
<i>Egretta garzetta</i>	1	0.002538	-5.976351	-0.015168	0.090652

<i>Himantopus himantopus</i>	2	0.005076	-5.283204	-0.026818	0.141687
<i>Phalacrocorax carbo</i>	21	0.053299	-2.931828	-0.156265	0.458142
<i>Tachybaptus ruficollis</i>	1	0.002538	-5.976351	-0.015168	0.090652
<i>Tringa stagnatilis</i>	1	0.002538	-5.976351	-0.015168	0.090652
Total	149	1	-36.011225	-1.406447	3.770318
Richness	11				
SS	3.770318				
SQ	1.978094				
H	1.406447				
S²_H	0.012254				

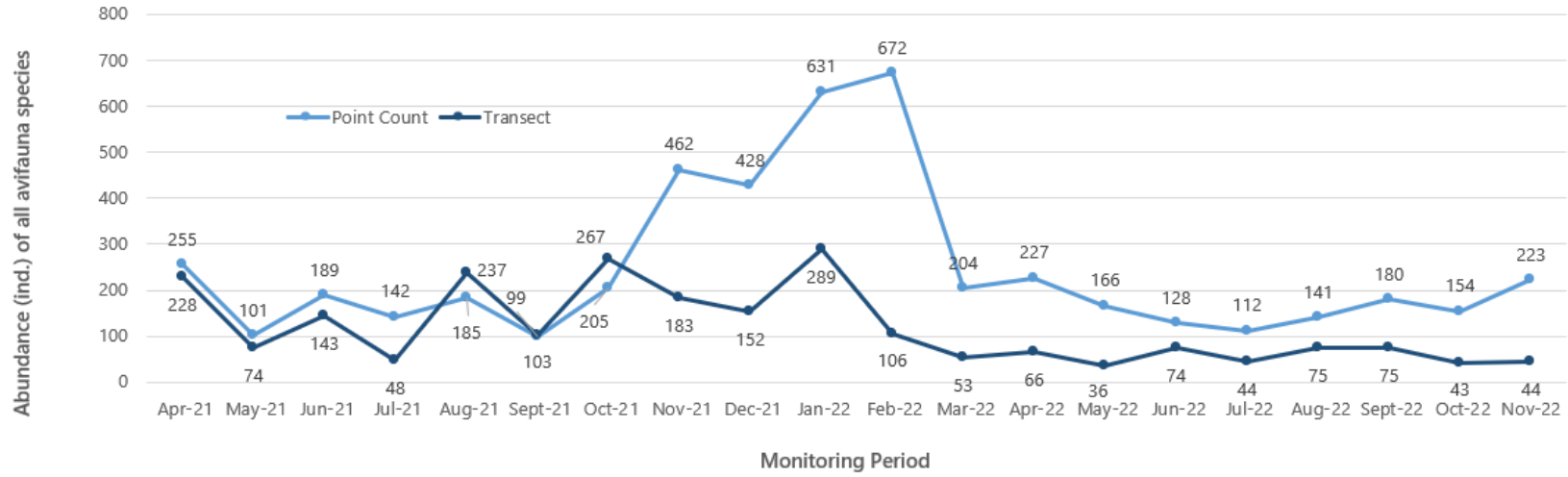
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (10 November 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Alcedo atthis</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Ardea alba</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Ardea cinerea</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Bubulcus coromandus</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Egretta garzetta</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Emberiza spodocephala</i>	3	0.063830	-2.751535	-0.175630	0.483252
<i>Gallinula chloropus</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Garrulax perspicillatus</i>	5	0.106383	-2.240710	-0.238373	0.534126
<i>Gracupica nigricollis</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Himantopus himantopus</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Motacilla alba</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Motacilla tschutschensis</i>	3	0.063830	-2.751535	-0.175630	0.483252
<i>Orthotomus sutorius</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Parus cinereus</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Passer montanus</i>	3	0.063830	-2.751535	-0.175630	0.483252
<i>Phoenicurus auroreus</i>	1	0.021277	-3.850148	-0.081918	0.315397
<i>Phylloscopus fuscatus</i>	2	0.042553	-3.157000	-0.134340	0.424113
<i>Pycnonotus jocosus</i>	4	0.085106	-2.463853	-0.209690	0.516644
<i>Spilopelia chinensis</i>	4	0.085106	-2.463853	-0.209690	0.516644
<i>Tachybaptus ruficollis</i>	2	0.042553	-3.157000	-0.134340	0.424113
Total	44	1	-62.460752	-2.872476	8.485253
Richness	20				
SS	8.485253				
SQ	8.251117				
H	2.87248				
S²_H	0.010228				

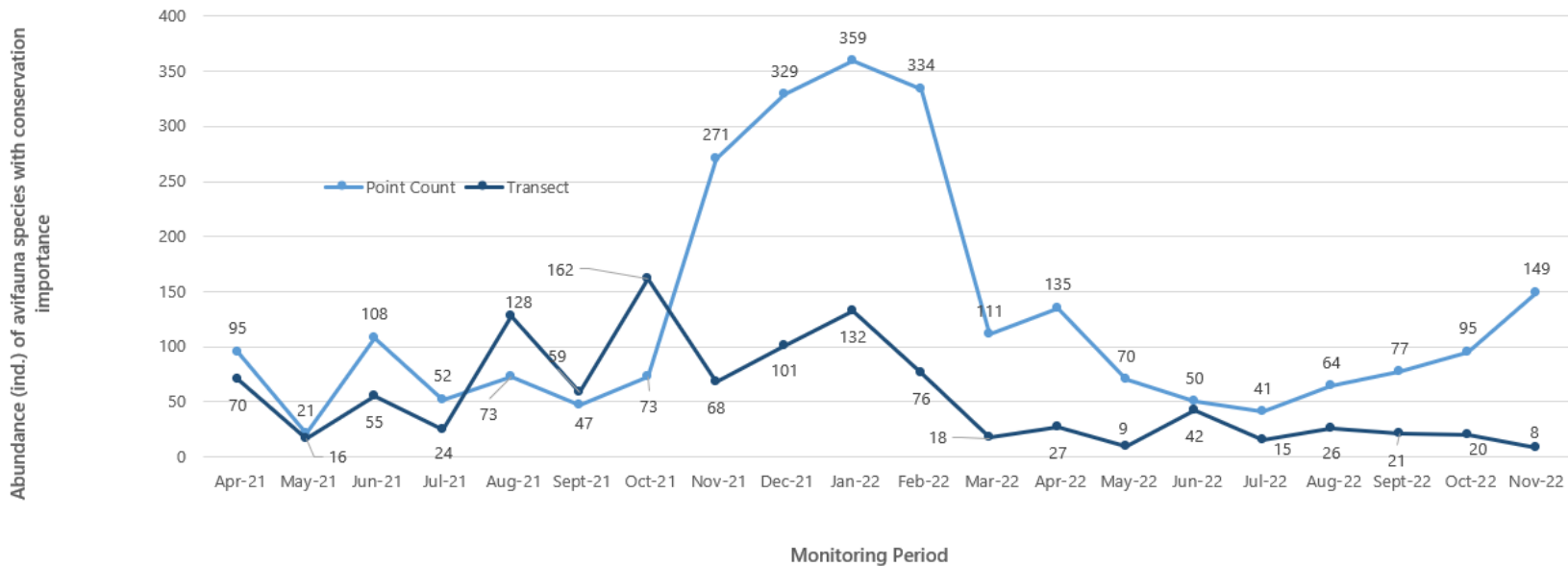
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (10 November 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	1	0.125	-2.079442	-0.259930	0.540510
<i>Ardea cinerea</i>	1	0.125	-2.079442	-0.259930	0.540510
<i>Egretta garzetta</i>	2	0.25	-1.386294	-0.346574	0.480453
<i>Himantopus himantopus</i>	2	0.25	-1.386294	-0.346574	0.480453
<i>Tachybaptus ruficollis</i>	2	0.25	-1.386294	-0.346574	0.480453
Total	8	1	-8.317766	-1.559581	2.522378
Richness	5				
SS	2.522378				
SQ	2.432293				
H	1.559581				
S²_H	0.042511				

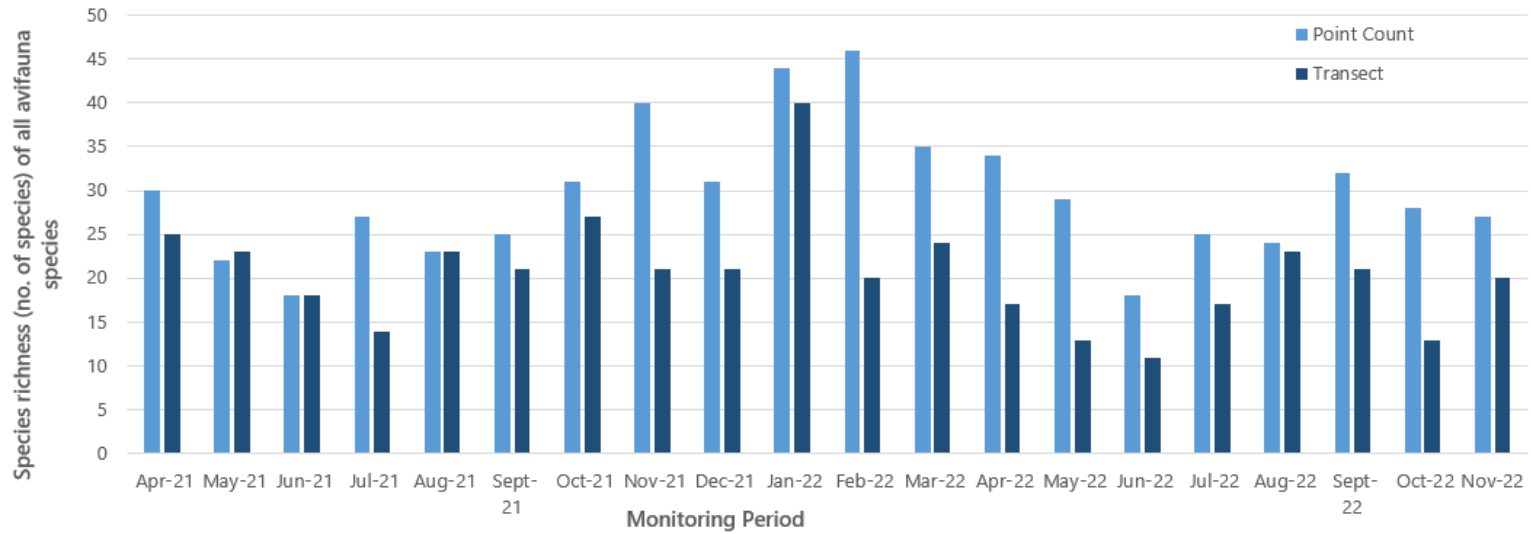
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



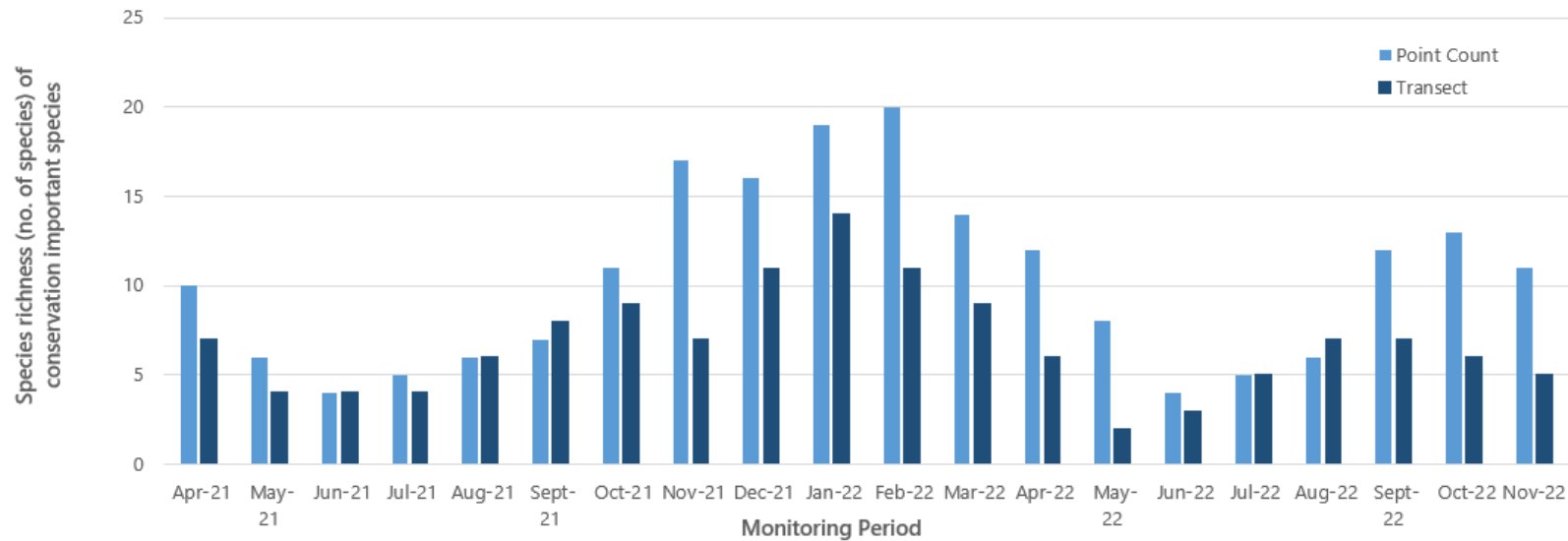
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



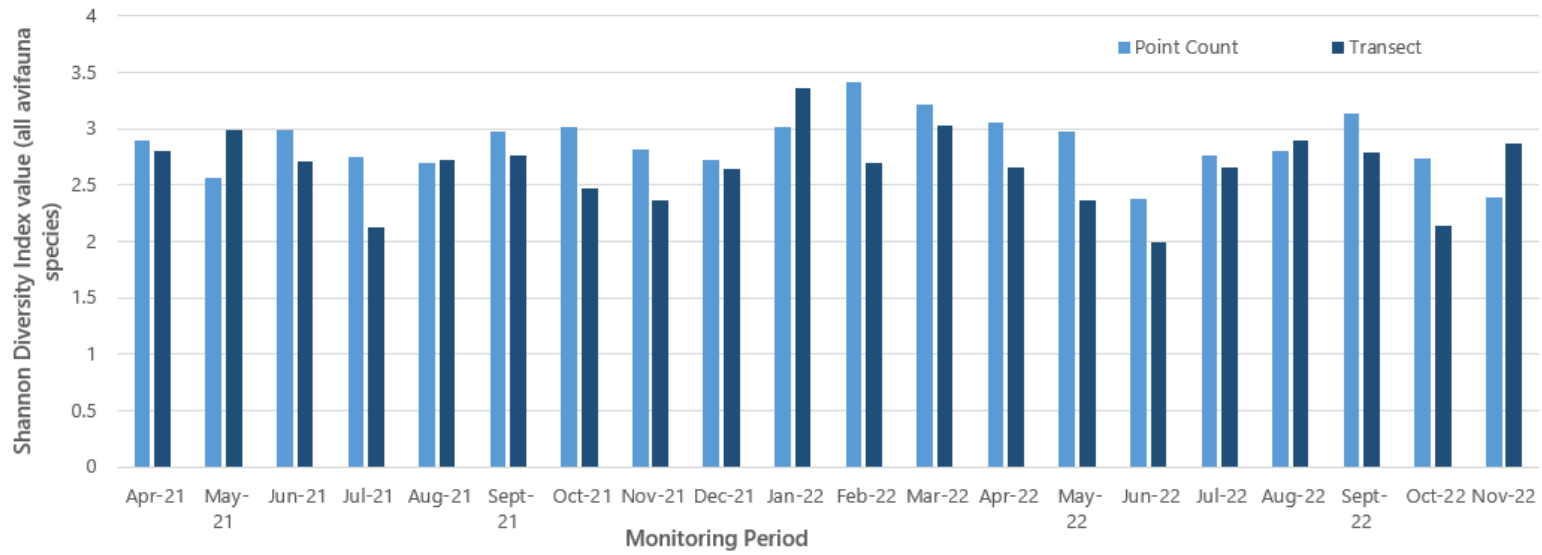
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



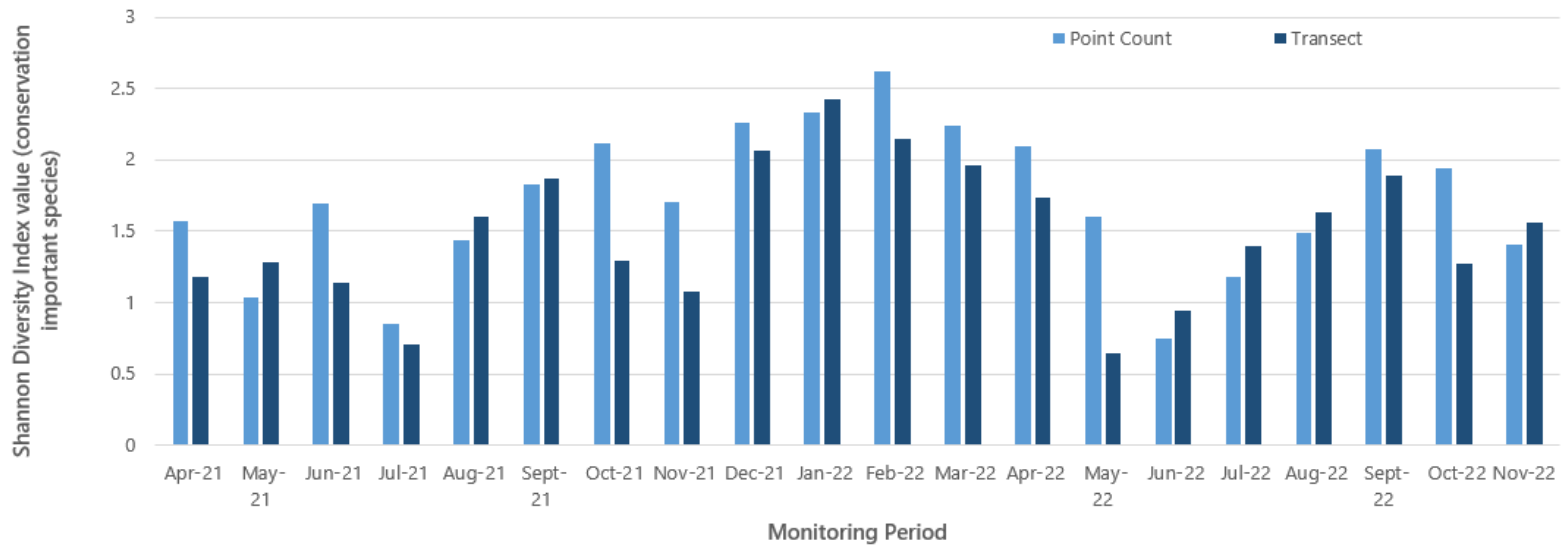
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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 Two-tailed Unpaired T-test

Formula:

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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

Months	November 2016	November 2022
N	48	27
df	47	26
M	12.67	8.26
SS	41178.67	8483.19
S ²	876.14	326.28
t-value	0.702	
p-value	0.48	
Notes: N: Number of samples/observations df: Degrees of freedom M: Mean SS: Sum of Squares S ² : Measure on a random sample that is used to estimate the variance of the population		

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

Months	November 2016	November 2022
N	20	20
df	19	19
M	6.25	2.2
SS	1559.75	25.2
S ²	82.09	1.33
t-value	1.98	
p-value	0.055	
Notes: N: Number of samples/observations df: Degrees of freedom M: Mean SS: Sum of Squares S ² : Measure on a random sample that is used to estimate the variance of the population		

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

Months	November 2016	November 2022
N	20	11
df	19	10
M	19.7	13.55
SS	35942.2	7572.73
S ²	1891.69	757.27
t-value	0.42	
p-value	0.68	
Notes: N: Number of samples/observations df: Degrees of freedom M: Mean SS: Sum of Squares S ² : Measure on a random sample that is used to estimate the variance of the population		

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

Months	November 2016	November 2022
N	7	5
df	6	4
M	8.43	1.6
SS	1191.71	1.2
S ²	198.62	0.3
t-value	1.07	
p-value	0.31	
Notes: N: Number of samples/observations df: Degrees of freedom M: Mean SS: Sum of Squares S ² : Measure on a random sample that is used to estimate the variance of the population		

Appendix F.7. 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.7.1 Species diversity of all avifauna species – Point Count Method

Months	November 2016	November 2022
Total	608	223
Richness	48	27
H	2.81	2.39
S ² _H	0.003	0.009
t	3.793	
df	401.582	
Crit	1.966	
p	0.000	
CI	0.117	0.191

Appendix F.7.2 Species diversity of avifauna species with conservation importance – Point Count Method

Months	November 2016	November 2022
Total	394	149
Richness	20	11
H	1,91	1.41
S ² _H	0.005	0.012
t	3.857	
df	273.053	
Crit	1.969	
p	0.000	
CI	0.139	0.221