
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		
4-Jun-22	Cloudy	8:33	98	102	84	291	500
10-Jun-22	Cloudy	8:30	63	70	81		
16-Jun-22	Cloudy	8:43	77	67	84		
22-Jun-22	Cloudy	8:30	60	60	74		
28-Jun-22	Fine	8:31	91	77	81		
		Min	60				
		Max	102				
		Average	78				

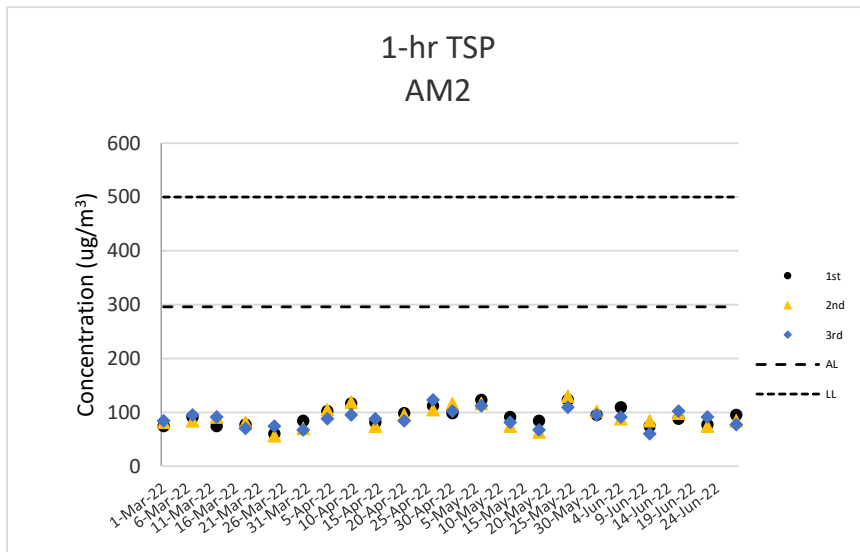
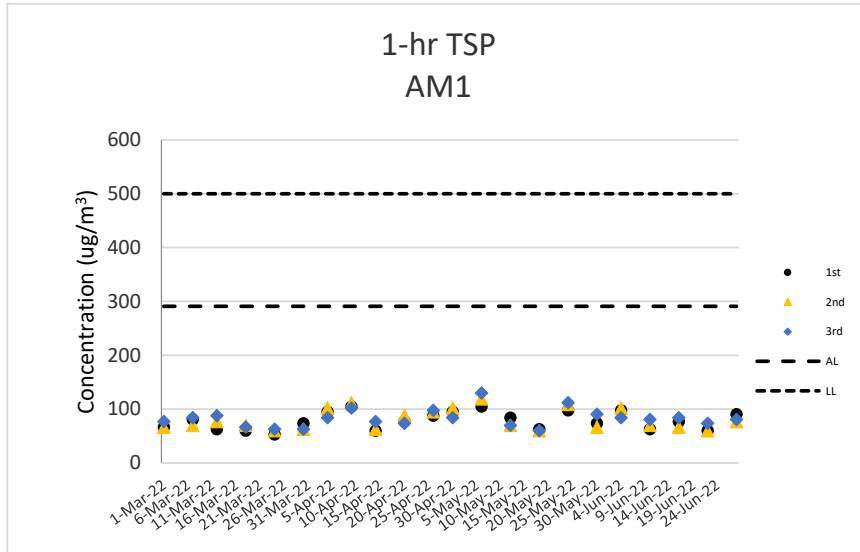
AM2 - Squatter house at the west of Yuen Long STW

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		
4-Jun-22	Cloudy	8:47	109	88	91	296	500
10-Jun-22	Cloudy	8:41	74	84	60		
16-Jun-22	Cloudy	8:31	88	98	102		
22-Jun-22	Cloudy	8:41	77	74	91		
28-Jun-22	Fine	8:41	95	84	77		
		Min	60				
		Max	109				
		Average	86				

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)
10-Jun-22	10:09	55	58	51	0.1	Cloudy	75
16-Jun-22	11:04	56	59	51	0.3	Cloudy	75
22-Jun-22	10:04	55	58	50	0.1	Cloudy	75
28-Jun-22	10:01	54	57	51	0.1	Fine	75
	Max	56					
	Min	54					

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)
10-Jun-22	8:46	64	66	56	0.1	Cloudy	75
16-Jun-22	13:08	62	64	56	0.4	Cloudy	75
22-Jun-22	8:46	62	64	55	0.1	Cloudy	75
28-Jun-22	8:45	61	64	54	0.2	Fine	75
	Max	64					
	Min	61					

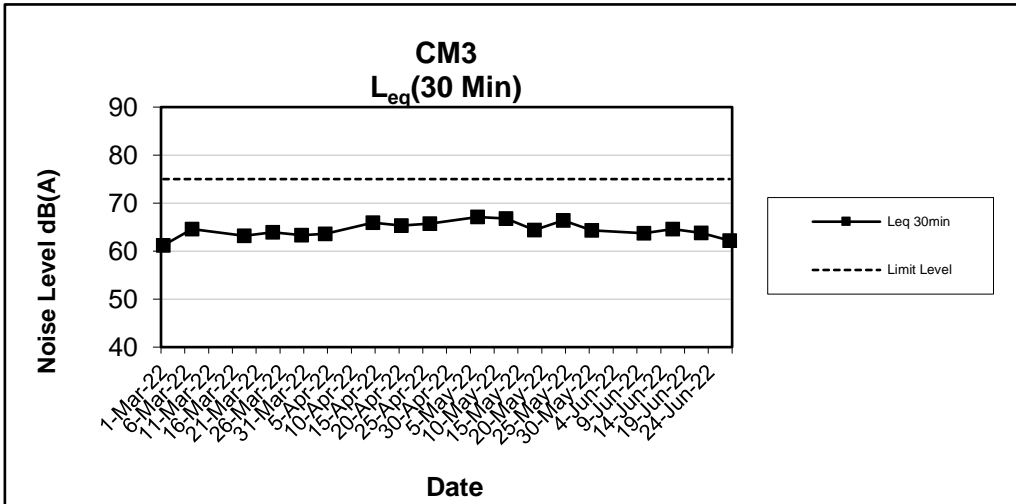
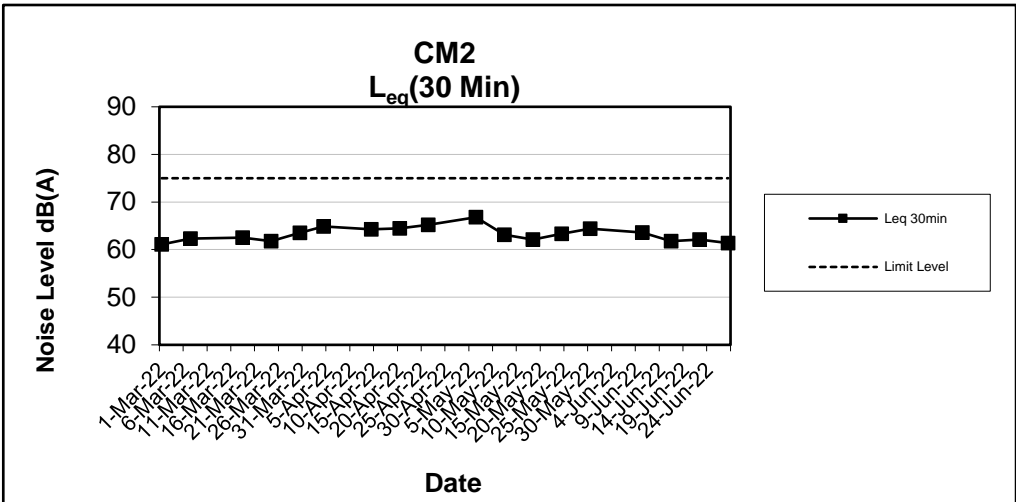
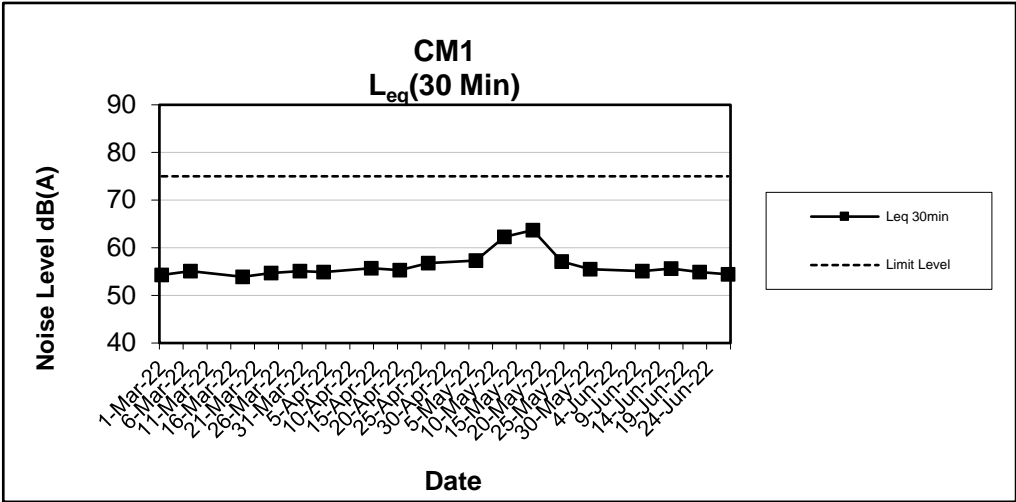
CM3 - Squatter house to the east of YLSTW

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)
10-Jun-22	11:28	64	66	56	0.2	Cloudy	75
16-Jun-22	9:33	65	67	57	0.3	Cloudy	75
22-Jun-22	11:29	64	67	56	0.2	Cloudy	75
28-Jun-22	11:22	62	65	54	0.1	Fine	75
	Max	65					
	Min	62					

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	2/6/2022	Mid-Flood	Fine	Moderate	8:05	1.1	M	0.55	1	0.082	104	7.50	7.51	4.89	4.88	28.93	28.95	80.1	80.2	6.00	6.01	29.5	29.5	44	44
M1	2/6/2022	Mid-Flood	Fine	Moderate	8:05	1.1	M	0.55	2			7.51		4.87		28.97		80.3		6.02		29.4		43	
M2	2/6/2022	Mid-Flood	Fine	Moderate	8:24	0.9	M	0.45	1	0.064	92	7.38	7.36	4.72	4.73	28.41	28.42	77.3	77.3	5.81	5.81	28.3	28.3	35	36
M2	2/6/2022	Mid-Flood	Fine	Moderate	8:24	0.9	M	0.45	2			7.34		4.73		28.42		77.2		5.80		28.4		37	
M3	2/6/2022	Mid-Flood	Cloudy	Calm	8:02	0.8	M	0.4	1	0.294	88	7.29	7.30	3.39	3.39	27.09	27.10	67.5	67.7	5.13	5.14	29.9	29.4	34	36
M3	2/6/2022	Mid-Flood	Cloudy	Calm	8:02	0.8	M	0.4	2			7.30		3.39		27.10		67.8		5.15		28.9		38	
M1	2/6/2022	Mid-Ebb	Fine	Moderate	15:46	1	M	0.5	1	0.054	76	7.09	7.11	6.12	6.13	29.14	29.14	60.8	60.5	4.83	4.82	27.8	27.8	31	32
M1	2/6/2022	Mid-Ebb	Fine	Moderate	15:46	1	M	0.5	2			7.13		6.14		29.13		60.1		4.81		27.8		32	
M2	2/6/2022	Mid-Ebb	Fine	Moderate	15:24	0.9	M	0.45	1	0.048	165	7.24	7.25	5.81	5.77	29.77	29.75	64.1	64.2	5.27	5.28	27.1	27.2	34	33
M2	2/6/2022	Mid-Ebb	Fine	Moderate	15:24	0.9	M	0.45	2			7.26		5.72		29.73		64.3		5.29		27.2		32	
M3	2/6/2022	Mid-Ebb	Cloudy	Calm	15:26	0.6	M	0.3	1	0.321	259	7.58	7.57	2.55	2.55	29.87	29.88	84.5	84.7	6.35	6.36	24.5	24.1	24	23
M3	2/6/2022	Mid-Ebb	Cloudy	Calm	15:26	0.6	M	0.3	2			7.56		2.54		29.88		84.8		6.37		23.6		21	

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	4/6/2022	Mid-Flood	Fine	Moderate	9:03	1.2	M	0.6	1	0.066	123	7.70	7.71	2.53	2.54	29.46	29.48	77.1	76.8	5.82	5.78	30.4	30.5	41	41
M1	4/6/2022	Mid-Flood	Fine	Moderate	9:03	1.2	M	0.6	2			7.72		7.71		2.54		29.49		76.4		5.73		30.5	
M2	4/6/2022	Mid-Flood	Fine	Moderate	9:21	1	M	0.5	1	0.098	75	7.81	7.82	2.64	2.65	28.72	28.73	70.4	70.4	5.60	5.61	31.2	31.2	35	34
M2	4/6/2022	Mid-Flood	Fine	Moderate	9:21	1	M	0.5	2			7.83		7.82		2.66		28.73		70.3		5.62		31.1	
M3	4/6/2022	Mid-Flood	Cloudy	Smooth	9:05	0.8	M	0.4	1	0.306	84	7.21	7.22	3.36	3.37	28.31	28.32	51.4	51.3	3.93	3.92	25.5	25.3	41	40
M3	4/6/2022	Mid-Flood	Cloudy	Smooth	9:05	0.8	M	0.4	2			7.22		7.22		3.38		28.32		51.1		3.91		25.0	
M1	4/6/2022	Mid-Ebb	Fine	Moderate	17:00	1	M	0.5	1	0.046	55	7.08	7.08	3.26	3.25	28.19	28.21	60.9	60.9	5.01	5.01	26.9	26.9	40	39
M1	4/6/2022	Mid-Ebb	Fine	Moderate	17:00	1	M	0.5	2			7.07		7.08		3.24		28.23		60.8		5.00		26.9	
M2	4/6/2022	Mid-Ebb	Fine	Moderate	16:41	0.7	M	0.35	1	0.052	72	7.09	7.08	3.11	3.15	27.73	27.72	64.3	64.4	5.32	5.34	27.7	27.7	36	38
M2	4/6/2022	Mid-Ebb	Fine	Moderate	16:41	0.7	M	0.35	2			7.06		7.08		3.18		27.71		64.5		5.35		27.6	
M3	4/6/2022	Mid-Ebb	Cloudy	Smooth	16:43	0.6	M	0.3	1	0.343	270	7.43	7.43	2.44	2.44	29.92	29.93	71.7	72.0	5.45	5.47	33.6	33.2	31	30
M3	4/6/2022	Mid-Ebb	Cloudy	Smooth	16:43	0.6	M	0.3	2			7.42		7.43		2.44		29.93		72.2		5.49		32.9	

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	7/6/2022	Mid-Flood	Cloudy	Smooth	12:07	2.2	M	1.1	1	0.235	131	7.43	7.44	3.57	3.58	29.37	29.38	56.1	56.3	4.41	4.43	29.5	29.7	22	21
M1	7/6/2022	Mid-Flood	Cloudy	Smooth	12:07	2.2	M	1.1	2			7.45		3.59		29.38		56.5		4.44		29.8		20	
M2	7/6/2022	Mid-Flood	Cloudy	Smooth	11:48	1.2	M	0.6	1	0.221	196	7.30	7.31	3.36	3.37	29.09	29.09	53.6	53.3	4.22	4.20	25.9	25.8	19	18
M2	7/6/2022	Mid-Flood	Cloudy	Smooth	11:48	1.2	M	0.6	2			7.31		3.37		29.09		53.0		4.17		25.7		17	
M3	7/6/2022	Mid-Flood	Fine	Moderate	12:10	1.2	M	0.6	1	0.092	72	7.33	7.34	0.36	0.36	27.94	27.95	64.2	64.5	5.07	5.07	43.4	43.5	22	21
M3	7/6/2022	Mid-Flood	Fine	Moderate	12:10	1.2	M	0.6	2			7.34		0.36		27.96		64.8		5.06		43.6		20	
M1	7/6/2022	Mid-Ebb	Cloudy	Smooth	7:15	2	M	1	1	0.21	280	7.12	7.13	1.25	1.26	26.05	26.06	43.5	43.2	3.44	3.42	28.6	28.4	19	21
M1	7/6/2022	Mid-Ebb	Cloudy	Smooth	7:15	2	M	1	2			7.13		1.26		26.06		42.9		3.39		28.2		22	
M2	7/6/2022	Mid-Ebb	Cloudy	Smooth	7:33	1.2	M	0.6	1	0.197	252	7.23	7.22	1.62	1.63	26.31	26.32	48.8	48.5	3.85	3.82	30.5	31.1	20	20
M2	7/6/2022	Mid-Ebb	Cloudy	Smooth	7:33	1.2	M	0.6	2			7.21		1.64		26.33		48.2		3.79		31.7		19	
M3	7/6/2022	Mid-Ebb	Fine	Moderate	7:10	0.9	M	0.45	1	0.062	126	7.05	7.06	0.40	0.40	27.79	27.79	41.7	41.7	4.26	4.19	48.3	48.2	34	35
M3	7/6/2022	Mid-Ebb	Fine	Moderate	7:10	0.9	M	0.45	2			7.06		0.39		27.78		41.6		4.11		48.1		35	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
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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	51.5	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	9/6/2022	Mid-Flood	Fine	Moderate	15:16	1.3	M	0.65	1	0.045	324	7.49	7.49	3.62	3.63	27.83	27.84	81.2	81.3	6.44	6.46	25.3	25.3	24	25
M1	9/6/2022	Mid-Flood	Fine	Moderate	15:16	1.3	M	0.65	2			7.48		3.63		27.84		81.4		6.48		25.4		25	
M2	9/6/2022	Mid-Flood	Fine	Moderate	14:59	1.1	M	0.55	1	0.105	77	7.32	7.34	3.45	3.47	27.30	27.27	80.5	80.7	6.32	6.35	24.2	24.2	27	27
M2	9/6/2022	Mid-Flood	Fine	Moderate	14:59	1.1	M	0.55	2			7.36		3.48		27.24		80.9		6.37		24.2		27	
M3	9/6/2022	Mid-Flood	Cloudy	Calm	15:02	0.4	M	0.2	1	0.199	93	7.37	7.38	2.53	2.54	27.82	27.82	54.6	55.0	4.30	4.34	34.5	34.8	31	30
M3	9/6/2022	Mid-Flood	Cloudy	Calm	15:02	0.4	M	0.2	2			7.38		2.55		27.82		55.3		4.37		35.1		29	
M1	9/6/2022	Mid-Ebb	Fine	Moderate	9:52	0.9	M	0.45	1	0.065	313	7.29	7.29	2.96	2.95	25.77	25.76	64.7	64.8	5.27	5.28	29.2	29.2	30	30
M1	9/6/2022	Mid-Ebb	Fine	Moderate	9:52	0.9	M	0.45	2			7.28		2.94		25.74		64.8		5.29		29.2		29	
M2	9/6/2022	Mid-Ebb	Fine	Moderate	10:10	0.8	M	0.4	1	0.055	72	7.34	7.36	2.73	2.74	24.81	24.82	61.2	61.3	4.82	4.83	27.3	27.3	31	32
M2	9/6/2022	Mid-Ebb	Fine	Moderate	10:10	0.8	M	0.4	2			7.38		2.75		24.83		61.3		4.83		27.3		33	
M3	9/6/2022	Mid-Ebb	Cloudy	Calm	9:42	0.4	M	0.2	1	0.185	267	7.20	7.20	1.37	1.37	27.06	27.07	51.0	50.6	4.03	4.00	31.0	30.6	20	20
M3	9/6/2022	Mid-Ebb	Cloudy	Calm	9:42	0.4	M	0.2	2			7.19		1.36		27.07		50.1		3.96		30.2		19	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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	11/6/2022	Mid-Flood	Fine	Moderate	17:50	0.9	M	0.45	1	0.106	106	7.11	7.12	4.31	4.32	26.45	26.47	59.7	59.7	3.89	3.88	26.5	26.4	15	16
M1	11/6/2022	Mid-Flood	Fine	Moderate	17:50	0.9	M	0.45	2			7.12		4.32		26.49		59.6		3.87		26.4		16	
M2	11/6/2022	Mid-Flood	Fine	Moderate	17:35	0.8	M	0.4	1	0.093	99	7.04	7.05	3.18	3.16	27.16	27.14	62.3	62.2	4.09	4.08	25.2	25.2	13	13
M2	11/6/2022	Mid-Flood	Fine	Moderate	17:35	0.8	M	0.4	2			7.05		3.14		27.12		62.1		4.07		25.2		12	
M3	11/6/2022	Mid-Flood	Cloudy	Calm	17:36	0.4	M	0.2	1	0.242	79	7.37	7.37	2.27	2.28	25.17	25.17	54.7	55.2	4.29	4.33	24.2	24.4	11	13
M3	11/6/2022	Mid-Flood	Cloudy	Calm	17:36	0.4	M	0.2	2			7.36		2.28		25.16		55.6		4.37		24.6		14	
M1	11/6/2022	Mid-Ebb	Fine	Moderate	11:15	1.1	M	0.55	1	0.066	175	7.07	7.08	2.11	2.12	27.56	27.50	49.1	48.9	3.47	3.40	26.6	26.6	44	44
M1	11/6/2022	Mid-Ebb	Fine	Moderate	11:15	1.1	M	0.55	2			7.09		2.13		27.44		48.6		3.32		26.6		43	
M2	11/6/2022	Mid-Ebb	Fine	Moderate	11:32	0.9	M	0.45	1	0.047	76	7.21	7.22	2.41	2.44	28.14	28.17	51.2	51.9	3.63	3.67	29.8	29.9	21	21
M2	11/6/2022	Mid-Ebb	Fine	Moderate	11:32	0.9	M	0.45	2			7.23		2.46		28.19		52.6		3.70		29.9		20	
M3	11/6/2022	Mid-Ebb	Cloudy	Calm	11:10	0.6	M	0.3	1	0.286	269	7.19	7.19	1.30	1.31	27.59	27.60	47.7	48.1	3.77	3.80	20.5	20.3	11	12
M3	11/6/2022	Mid-Ebb	Cloudy	Calm	11:10	0.6	M	0.3	2			7.18		1.32		27.60		48.4		3.83		20.2		13	

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	14/6/2022	Mid-Flood	Cloudy	Smooth	6:31	2.4	M	1.2	1	0.299	206	7.49	7.48	2.58	2.58	26.90	26.91	58.0	57.6	4.50	4.46	21.9	22.2	22	21
M1	14/6/2022	Mid-Flood	Cloudy	Smooth	6:31	2.4	M	1.2	2			7.47		2.57		26.91		57.1		4.42		22.5		20	
M2	14/6/2022	Mid-Flood	Cloudy	Smooth	6:49	1.4	M	0.7	1	0.314	236	7.60	7.61	2.05	2.06	27.05	27.06	69.0	68.7	5.34	5.32	26.2	26.4	11	12
M2	14/6/2022	Mid-Flood	Cloudy	Smooth	6:49	1.4	M	0.7	2			7.61		2.06		27.07		68.4		5.29		26.7		13	
M3	14/6/2022	Mid-Flood	Cloudy	Smooth	6:39	1.4	M	0.7	1	0.063	62	7.54	7.55	1.54	1.57	28.15	28.16	66.6	67.9	5.16	5.22	25.7	25.8	16	16
M3	14/6/2022	Mid-Flood	Cloudy	Smooth	6:39	1.4	M	0.7	2			7.56		1.59		28.16		69.1		5.27		25.9		15	
M1	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:50	2	M	1	1	0.391	324	7.33	7.34	2.11	2.12	28.33	28.34	45.5	45.6	3.54	3.55	30.4	30.0	7	7
M1	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:50	2	M	1	2			7.34		2.13		28.34		45.7		3.55		29.6		7	
M2	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:31	1	M	0.5	1	0.407	272	7.37	7.37	2.18	2.19	28.01	28.01	51.0	50.9	3.96	3.95	25.2	25.1	7	8
M2	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:31	1	M	0.5	2			7.36		2.19		28.01		50.8		3.94		24.9		8	
M3	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:30	1.2	M	0.6	1	0.106	91	7.31	7.33	1.29	1.28	28.09	28.08	44.5	44.7	3.45	3.48	27.2	27.3	12	14
M3	14/6/2022	Mid-Ebb	Cloudy	Smooth	13:30	1.2	M	0.6	2			7.34		1.27		28.07		44.8		3.51		27.3		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	16/6/2022	Mid-Flood	Cloudy	Smooth	7:48	2.4	M	1.2	1	0.371	176	7.72	7.72	2.66	2.67	26.02	26.03	79.6	79.0	6.15	6.11	30.9	30.6	29	30
M1	16/6/2022	Mid-Flood	Cloudy	Smooth	7:48	2.4	M	1.2	2			7.71		2.67		26.04		78.4		6.06		30.4		30	
M2	16/6/2022	Mid-Flood	Cloudy	Smooth	8:06	1.4	M	0.7	1	0.382	215	7.79	7.79	2.49	2.49	26.33	26.34	81.3	81.1	6.26	6.25	28.4	28.5	15	14
M2	16/6/2022	Mid-Flood	Cloudy	Smooth	8:06	1.4	M	0.7	2			7.78		2.48		26.34		80.9		6.23		28.7		13	
M3	16/6/2022	Mid-Flood	Fine	Moderate	7:51	1.2	M	0.6	1	0.065	215	7.62	7.62	1.89	1.89	28.02	28.02	71.1	71.0	5.50	5.48	36.3	36.2	45	46
M3	16/6/2022	Mid-Flood	Fine	Moderate	7:51	1.2	M	0.6	2			7.61		1.88		28.02		70.9		5.46		36.1		47	
M1	16/6/2022	Mid-Ebb	Cloudy	Smooth	15:28	2.2	M	1.1	1	0.41	227	7.46	7.45	3.06	3.06	29.41	29.42	83.2	83.5	6.44	6.47	32.7	32.4	42	41
M1	16/6/2022	Mid-Ebb	Cloudy	Smooth	15:28	2.2	M	1.1	2			7.44		3.05		29.42		83.8		6.49		32.0		39	
M2	16/6/2022	Mid-Ebb	Cloudy	Smooth	15:08	1.2	M	0.6	1	0.427	340	7.32	7.33	3.52	3.51	29.10	29.10	81.9	82.2	6.31	6.34	27.8	27.4	21	21
M2	16/6/2022	Mid-Ebb	Cloudy	Smooth	15:08	1.2	M	0.6	2			7.33		3.50		29.09		82.5		6.36		27.0		20	
M3	16/6/2022	Mid-Ebb	Fine	Moderate	15:21	0.9	M	0.45	1	0.093	206	7.66	7.64	2.41	2.42	28.24	28.25	73.6	73.5	5.70	5.67	33.3	33.2	37	38
M3	16/6/2022	Mid-Ebb	Fine	Moderate	15:21	0.9	M	0.45	2			7.61		2.42		28.26		73.4		5.64		33.1		39	

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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	18/6/2022	Mid-Flood	Fine	Moderate	9:29	1.2	M	0.6	1	0.066	196	7.98	7.96	0.91	0.92	28.33	28.33	93.1	93.3	7.23	7.25	31.0	30.9	33	35
M1	18/6/2022	Mid-Flood	Fine	Moderate	9:29	1.2	M	0.6	2			7.94		0.93		28.33		93.4		7.26		30.9		36	
M2	18/6/2022	Mid-Flood	Fine	Moderate	9:47	1	M	0.5	1	0.092	183	7.87	7.88	1.04	1.05	28.01	28.02	92.1	92.3	7.16	7.15	31.0	31.0	29	30
M2	18/6/2022	Mid-Flood	Fine	Moderate	9:47	1	M	0.5	2			7.89		1.05		28.02		92.4		7.14		31.0		30	
M3	18/6/2022	Mid-Flood	Cloudy	Smooth	9:21	1.2	M	0.6	1	0.263	82	7.17	7.18	2.72	2.72	28.22	28.23	51.2	50.8	3.95	3.92	39.2	39.4	47	47
M3	18/6/2022	Mid-Flood	Cloudy	Smooth	9:21	1.2	M	0.6	2			7.18		2.72		28.23		50.3		3.88		39.5		46	
M1	18/6/2022	Mid-Ebb	Fine	Moderate	17:09	1	M	0.5	1	0.067	296	7.84	7.83	1.08	1.09	28.74	28.73	94.2	94.4	7.21	7.22	24.4	24.4	33	34
M1	18/6/2022	Mid-Ebb	Fine	Moderate	17:09	1	M	0.5	2			7.82		1.09		28.71		94.6		7.23		24.4		35	
M2	18/6/2022	Mid-Ebb	Fine	Moderate	16:51	0.8	M	0.4	1	0.043	265	7.96	7.95	1.03	1.04	28.92	28.93	95.5	95.5	7.36	7.37	24.2	24.2	32	31
M2	18/6/2022	Mid-Ebb	Fine	Moderate	16:51	0.8	M	0.4	2			7.94		1.04		28.93		95.4		7.38		24.2		30	
M3	18/6/2022	Mid-Ebb	Cloudy	Smooth	16:46	0.8	M	0.4	1	0.321	247	7.33	7.33	1.56	1.57	28.97	28.97	54.4	54.8	4.20	4.23	42.8	42.5	40	39
M3	18/6/2022	Mid-Ebb	Cloudy	Smooth	16:46	0.8	M	0.4	2			7.32		1.58		28.96		55.1		4.26		42.3		38	

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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	21/6/2022	Mid-Flood	Fine	Moderate	13:11	0.9	M	0.45	1	0.054	91	7.39	7.39	2.44	2.45	28.44	28.43	50.2	50.3	3.86	3.87	26.0	26.0	22	21
M1	21/6/2022	Mid-Flood	Fine	Moderate	13:11	0.9	M	0.45	2			7.38		2.46		28.41		50.4		3.87		26.0		20	
M2	21/6/2022	Mid-Flood	Fine	Moderate	12:47	0.8	M	0.4	1	0.093	77	7.32	7.33	2.14	2.15	28.41	28.35	34.6	34.4	2.97	2.94	30.6	30.7	9	9
M2	21/6/2022	Mid-Flood	Fine	Moderate	12:47	0.8	M	0.4	2			7.33		2.16		28.29		34.1		2.91		30.7		8	
M3	21/6/2022	Mid-Flood	Cloudy	Calm	12:49	0.6	M	0.3	1	0.225	74	7.14	7.15	2.17	2.18	29.69	29.69	51.7	52.3	3.99	4.03	37.0	36.6	12	12
M3	21/6/2022	Mid-Flood	Cloudy	Calm	12:49	0.6	M	0.3	2			7.16		2.18		29.69		52.8		4.07		36.6		12	
M1	21/6/2022	Mid-Ebb	Fine	Moderate	8:09	1.2	M	0.6	1	0.064	203	7.35	7.36	1.54	1.54	28.59	28.59	36.1	36.4	2.84	2.85	25.4	25.5	10	11
M1	21/6/2022	Mid-Ebb	Fine	Moderate	8:09	1.2	M	0.6	2			7.36		1.53		28.58		36.7		2.86		25.5		11	
M2	21/6/2022	Mid-Ebb	Fine	Moderate	8:27	1	M	0.5	1	0.049	189	7.12	7.13	1.81	1.82	28.17	28.16	41.2	41.3	3.41	3.43	31.1	31.2	11	12
M2	21/6/2022	Mid-Ebb	Fine	Moderate	8:27	1	M	0.5	2			7.14		1.83		28.14		41.4		3.44		31.2		12	
M3	21/6/2022	Mid-Ebb	Cloudy	Calm	8:02	0.4	M	0.2	1	0.201	255	6.75	6.76	1.46	1.46	27.55	27.56	44.5	45.0	3.44	3.48	27.2	27.0	13	13
M3	21/6/2022	Mid-Ebb	Cloudy	Calm	8:02	0.4	M	0.2	2			6.76		1.46		27.56		45.4		3.51		26.8		13	

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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	23/6/2022	Mid-Flood	Fine	Calm	16:08	2	M	1	1	0.235	162	7.34	7.35	1.83	1.84	31.98	31.98	56.6	56.4	4.34	4.32	28.9	28.6	33	33
M1	23/6/2022	Mid-Flood	Fine	Calm	16:08	2	M	1	2			7.35		1.84		31.97		56.1		4.29		28.3		32	
M2	23/6/2022	Mid-Flood	Fine	Calm	15:48	1	M	0.5	1	0.223	185	7.48	7.49	2.01	2.02	31.69	31.70	49.4	49.6	3.78	3.80	25.0	24.5	30	30
M2	23/6/2022	Mid-Flood	Fine	Calm	15:48	1	M	0.5	2			7.49		2.02		31.70		49.8		3.81		24.1		29	
M3	23/6/2022	Mid-Flood	Fine	Moderate	15:52	1.4	M	0.7	1	0.049	97	7.45	7.47	2.47	2.44	29.18	29.16	53.8	53.6	4.14	4.13	37.1	37.1	40	41
M3	23/6/2022	Mid-Flood	Fine	Moderate	15:52	1.4	M	0.7	2			7.48		2.41		29.14		53.4		4.11		37.1		41	
M1	23/6/2022	Mid-Ebb	Fine	Calm	10:13	2.2	M	1.1	1	0.243	270	7.61	7.61	1.41	1.42	29.47	29.48	63.0	63.2	4.86	4.88	32.5	33.1	27	28
M1	23/6/2022	Mid-Ebb	Fine	Calm	10:13	2.2	M	1.1	2			7.60		1.42		29.48		63.3		4.89		28			
M2	23/6/2022	Mid-Ebb	Fine	Calm	10:32	1.2	M	0.6	1	0.257	294	7.72	7.73	1.60	1.61	29.95	29.96	59.8	59.5	4.60	4.57	26.4	26.3	26	28
M2	23/6/2022	Mid-Ebb	Fine	Calm	10:32	1.2	M	0.6	2			7.74		1.61		29.96		59.1		4.53		26.3		29	
M3	23/6/2022	Mid-Ebb	Fine	Moderate	10:21	1.1	M	0.55	1	0.032	175	7.57	7.57	2.34	2.34	29.62	29.63	66.9	66.9	5.08	5.07	39.5	39.5	39	38
M3	23/6/2022	Mid-Ebb	Fine	Moderate	10:21	1.1	M	0.55	2			7.56		2.33		29.63		66.8		5.06		39.4		36	

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	25/6/2022	Mid-Flood	Fine	Calm	18:26	2	M	1	1	0.276	186	7.57	7.57	2.42	2.42	32.66	32.67	64.7	64.4	4.84	4.81	32.1	31.7	30	33
M1	25/6/2022	Mid-Flood	Fine	Calm	18:26	2	M	1	2			7.56		2.41		32.67		64.0		4.78		31.2		35	
M2	25/6/2022	Mid-Flood	Fine	Calm	18:09	1.2	M	0.6	1	0.247	203	7.51	7.52	2.09	2.09	32.39	32.40	67.2	67.0	4.96	4.95	27.2	27.0	24	25
M2	25/6/2022	Mid-Flood	Fine	Calm	18:09	1.2	M	0.6	2			7.52		2.09		32.40		66.8		4.93		26.7		25	
M3	25/6/2022	Mid-Flood	Fine	Calm	18:10	0.4	M	0.2	1	0.227	84	7.45	7.45	2.18	2.19	32.10	32.10	60.8	61.2	4.50	4.53	40.6	40.9	33	31
M3	25/6/2022	Mid-Flood	Fine	Calm	18:10	0.4	M	0.2	2			7.44		2.19		32.09		61.5		4.56		41.2		28	
M1	25/6/2022	Mid-Ebb	Fine	Calm	11:37	2.2	M	1.1	1	0.288	285	7.35	7.35	1.33	1.34	31.22	31.23	55.7	55.5	4.15	4.14	33.9	33.4	43	41
M1	25/6/2022	Mid-Ebb	Fine	Calm	11:37	2.2	M	1.1	2			7.34		1.34		31.23		55.2		4.12		33.0		38	
M2	25/6/2022	Mid-Ebb	Fine	Calm	11:55	1.2	M	0.6	1	0.314	268	7.26	7.26	1.63	1.63	31.91	31.92	59.3	59.5	4.39	4.41	28.7	29.1	33	32
M2	25/6/2022	Mid-Ebb	Fine	Calm	11:55	1.2	M	0.6	2			7.25		1.62		31.93		59.7		4.43		29.6		30	
M3	25/6/2022	Mid-Ebb	Fine	Calm	11:27	0.6	M	0.3	1	0.269	241	7.30	7.30	1.47	1.47	30.69	30.70	58.0	57.7	4.29	4.27	36.9	37.2	33	32
M3	25/6/2022	Mid-Ebb	Fine	Calm	11:27	0.6	M	0.3	2			7.29		1.47		30.71		57.4		4.24		37.5		31	

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	28/6/2022	Mid-Flood	Fine	Moderate	6:14	1.4	M	0.7	1	0.066	175	8.70	8.65	1.61	1.61	31.46	31.46	72.3	72.4	5.29	5.30	33.3	33.3	30	30
M1	28/6/2022	Mid-Flood	Fine	Moderate	6:14	1.4	M	0.7	2			8.60		8.60		1.61		31.47		72.4		5.31		33.3	
M2	28/6/2022	Mid-Flood	Fine	Moderate	6:32	1.1	M	0.55	1	0.092	86	8.81	8.82	1.64	1.66	31.19	31.17	70.4	70.5	5.14	5.16	35.1	35.2	16	16
M2	28/6/2022	Mid-Flood	Fine	Moderate	6:32	1.1	M	0.55	2			8.82		8.82		1.67		31.14		70.6		5.18		35.2	
M3	28/6/2022	Mid-Flood	Fine	Calm	5:59	0.8	M	0.4	1	0.285	92	7.39	7.40	1.80	1.81	27.09	27.10	83.9	83.5	6.24	6.21	41.1	40.7	20	19
M3	28/6/2022	Mid-Flood	Fine	Calm	5:59	0.8	M	0.4	2			7.40		7.40		1.81		27.10		83.1		6.17		40.3	
M1	28/6/2022	Mid-Ebb	Fine	Moderate	13:38	1	M	0.5	1	0.058	76	8.76	8.75	2.09	2.08	31.27	31.27	82.4	82.3	5.84	5.83	32.2	32.2	34	34
M1	28/6/2022	Mid-Ebb	Fine	Moderate	13:38	1	M	0.5	2			8.74		8.74		2.07		31.27		82.1		5.81		32.2	
M2	28/6/2022	Mid-Ebb	Fine	Moderate	13:19	0.9	M	0.45	1	0.047	105	8.34	8.36	2.08	2.09	30.88	30.84	86.2	86.5	6.19	6.22	32.7	32.8	12	13
M2	28/6/2022	Mid-Ebb	Fine	Moderate	13:19	0.9	M	0.45	2			8.37		8.37		2.09		30.79		86.8		6.24		32.8	
M3	28/6/2022	Mid-Ebb	Fine	Calm	13:19	0.6	M	0.3	1	0.311	275	7.63	7.63	1.55	1.55	32.88	32.88	86.9	87.2	6.43	6.46	30.2	29.8	24	25
M3	28/6/2022	Mid-Ebb	Fine	Calm	13:19	0.6	M	0.3	2			7.62		7.62		1.54		32.88		87.5		6.48		29.5	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	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	30/6/2022	Mid-Flood	Fine	Moderate	7:21	1.1	M	0.55	1	0.063	143	7.57	7.58	2.32	2.33	30.04	30.05	48.1	48.2	3.59	3.61	30.4	30.5	28	29
M1	30/6/2022	Mid-Flood	Fine	Moderate	7:21	1.1	M	0.55	2			7.58		2.34		30.05		48.3		3.62		30.5		30.5	
M2	30/6/2022	Mid-Flood	Fine	Moderate	7:00	0.9	M	0.45	1	0.102	75	7.56	7.55	2.58	2.59	30.09	30.11	44.8	45.1	3.40	3.42	31.2	31.2	30	31
M2	30/6/2022	Mid-Flood	Fine	Moderate	7:00	0.9	M	0.45	2			7.54		2.59		30.13		45.3		3.44		31.2		31.2	
M3	30/6/2022	Mid-Flood	Cloudy	Smooth	7:06	1	M	0.5	1	0.278	84	7.45	7.46	1.79	1.78	26.17	26.18	59.1	58.7	4.45	4.42	36.9	36.6	34	36
M3	30/6/2022	Mid-Flood	Cloudy	Smooth	7:06	1	M	0.5	2			7.46		1.77		26.18		58.3		4.38		36.2		36.2	
M1	30/6/2022	Mid-Ebb	Fine	Moderate	14:53	0.9	M	0.45	1	0.084	246	7.92	7.93	1.97	1.98	29.14	29.13	77.5	77.5	5.83	5.83	29.6	29.7	29	29
M1	30/6/2022	Mid-Ebb	Fine	Moderate	14:53	0.9	M	0.45	2			7.93		1.98		29.12		77.4		5.82		29.7		29.7	
M2	30/6/2022	Mid-Ebb	Fine	Moderate	14:37	0.7	M	0.35	1	0.093	206	7.89	7.89	1.93	1.94	29.54	29.54	80.4	80.4	6.06	6.06	29.7	29.8	30	30
M2	30/6/2022	Mid-Ebb	Fine	Moderate	14:37	0.7	M	0.35	2			7.88		1.94		29.54		80.3		6.05		29.8		29.8	
M3	30/6/2022	Mid-Ebb	Cloudy	Smooth	14:39	0.6	M	0.3	1	0.319	262	7.57	7.58	1.01	1.02	27.04	27.05	63.4	63.8	4.77	4.80	38.6	38.9	32	32
M3	30/6/2022	Mid-Ebb	Cloudy	Smooth	14:39	0.6	M	0.3	2			7.58		1.02		27.06		64.2		4.83		39.1		39.1	

Remark

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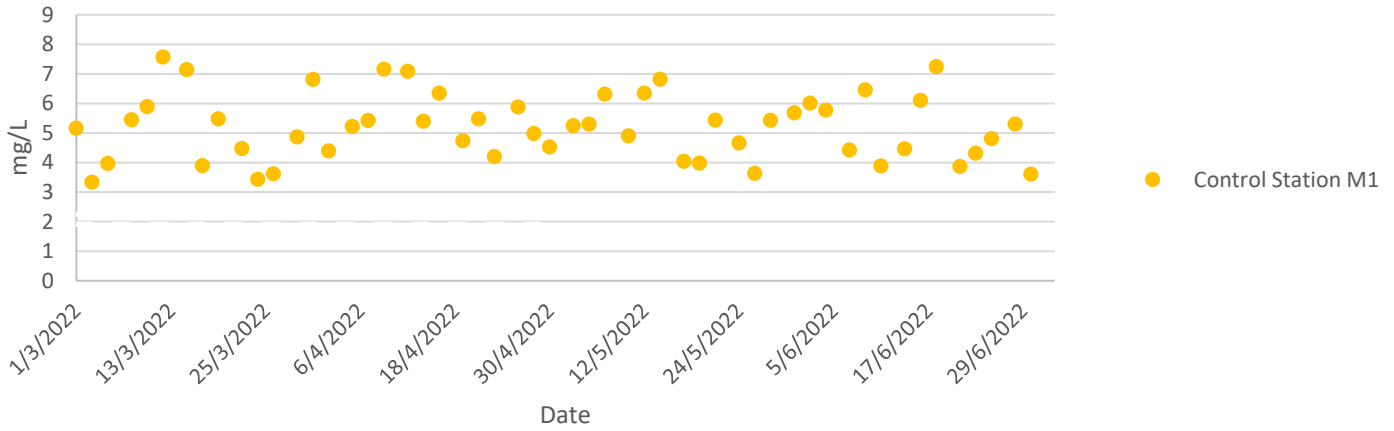
For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
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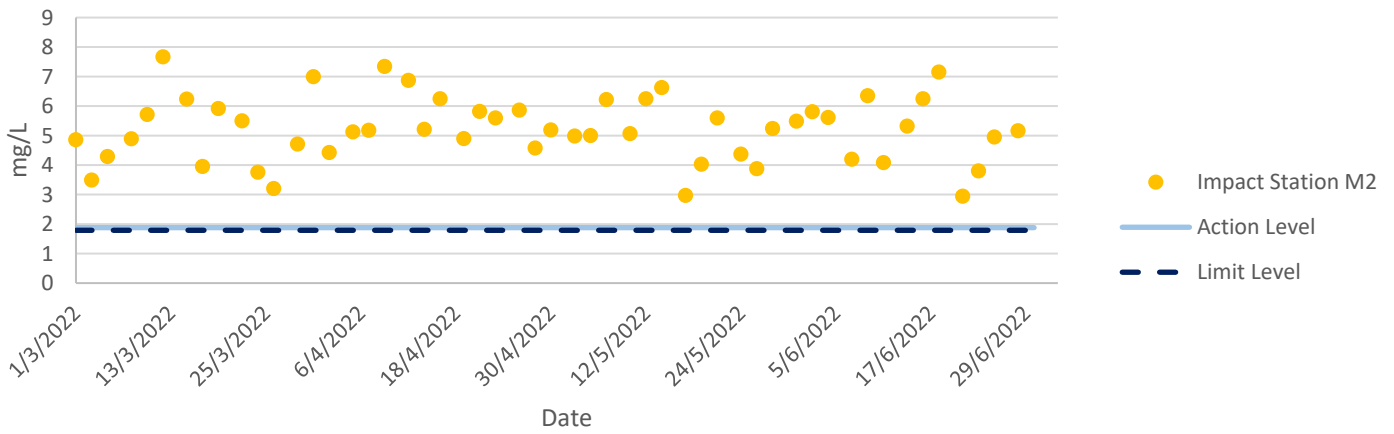
For Ebb Tide

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

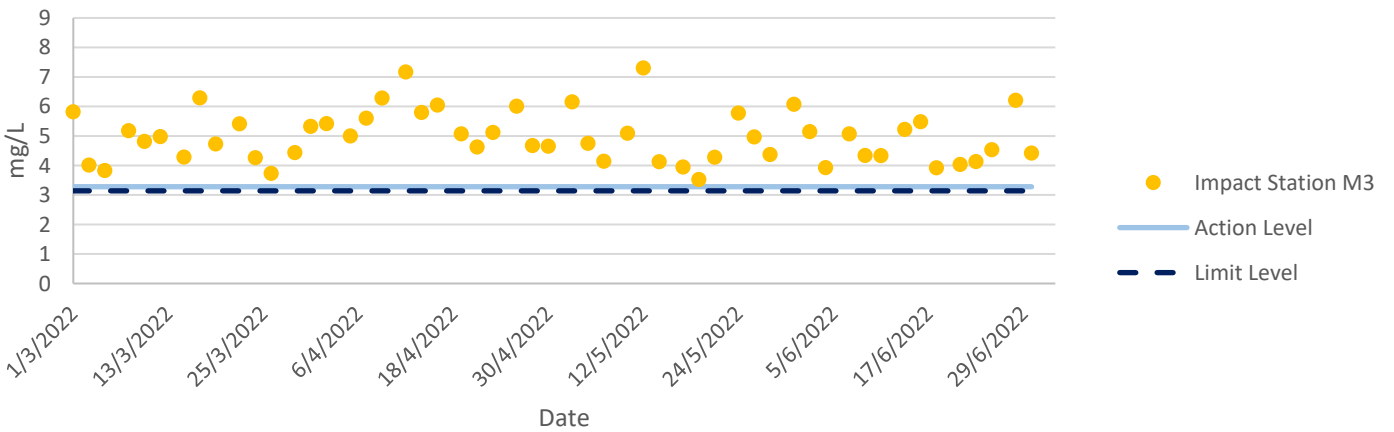
Dissolved Oxygen at Mid-Flood Tide



Dissolved Oxygen at Mid-Flood Tide

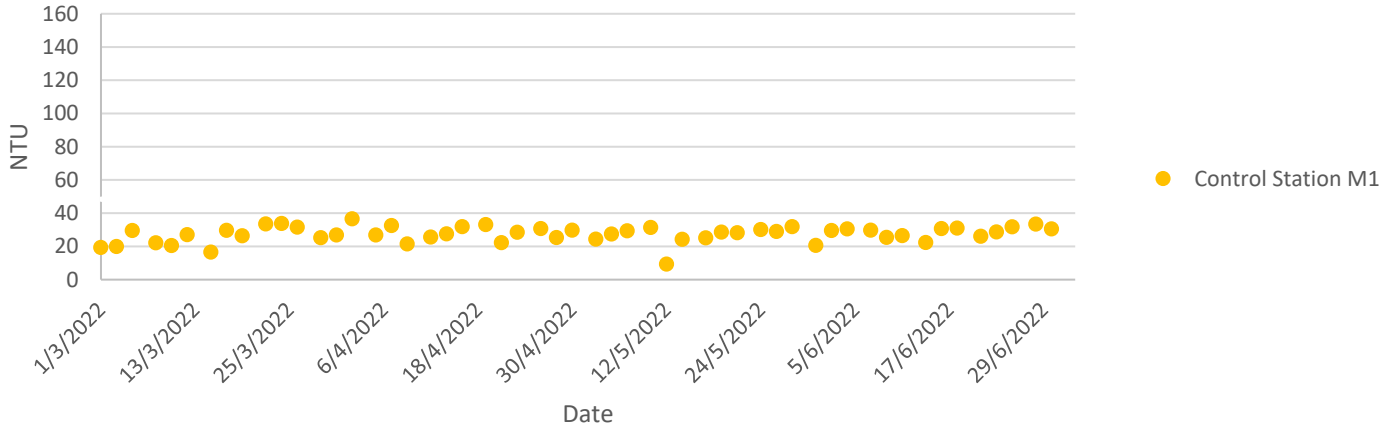


Dissolved Oxygen at Mid-Flood Tide

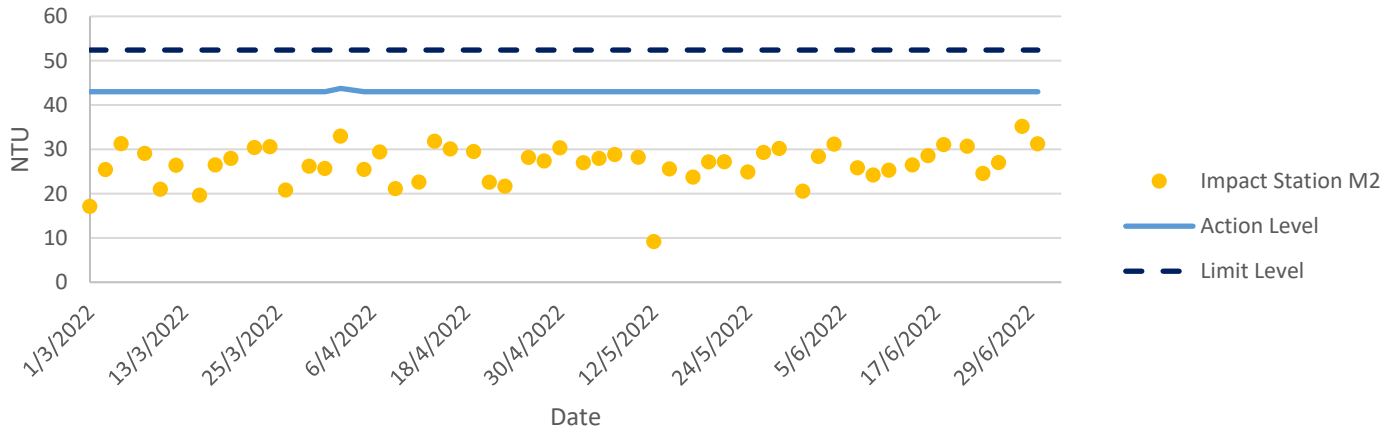


Water Quality Monitoring Results

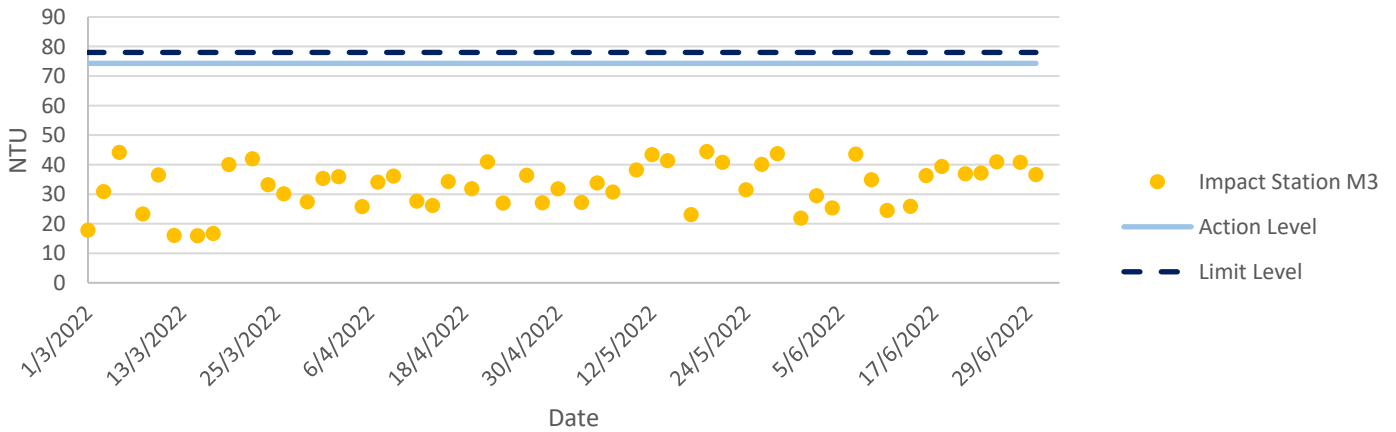
Turbidity at Mid-Flood Tide



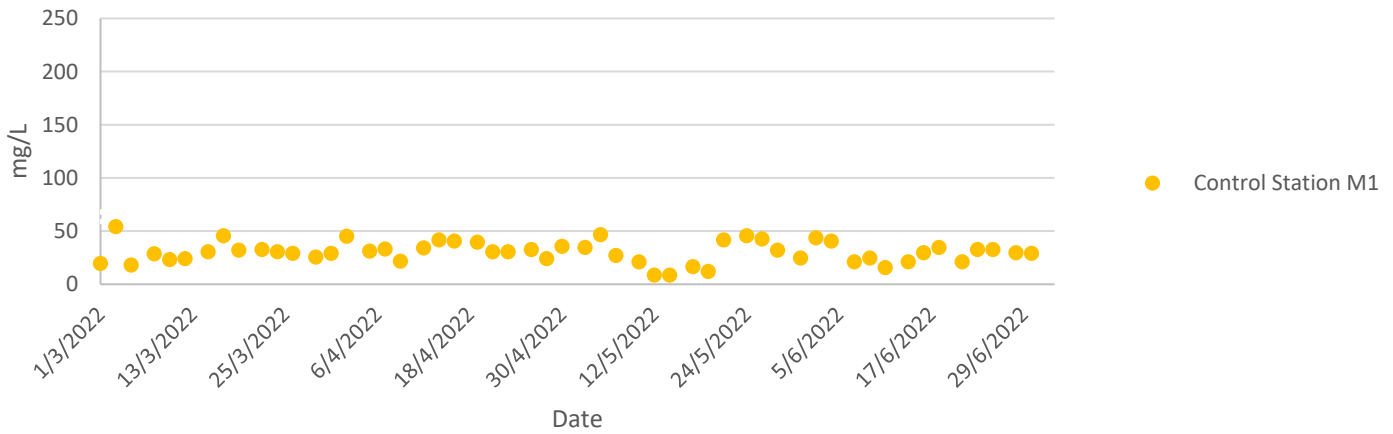
Turbidity at Mid-Flood Tide



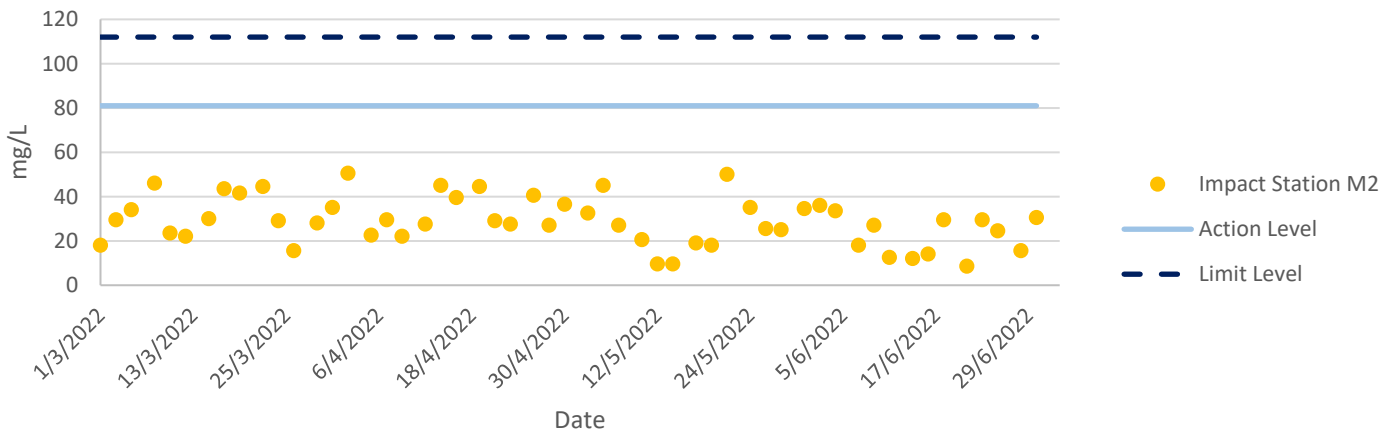
Turbidity at Mid-Flood Tide



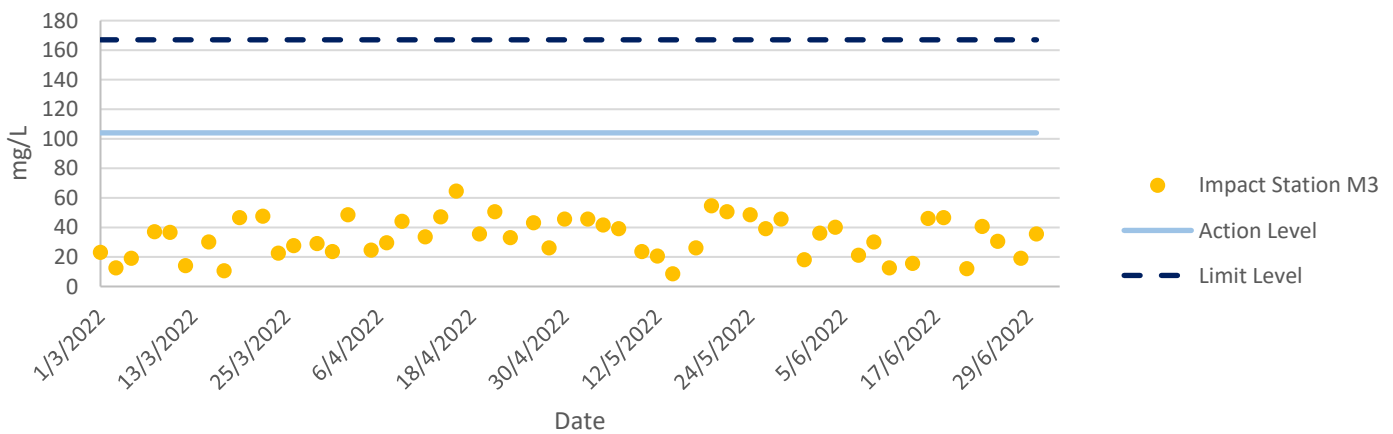
Total Suspended Solids at Mid-Flood Tide



Total Suspended Solids at Mid-Flood Tide

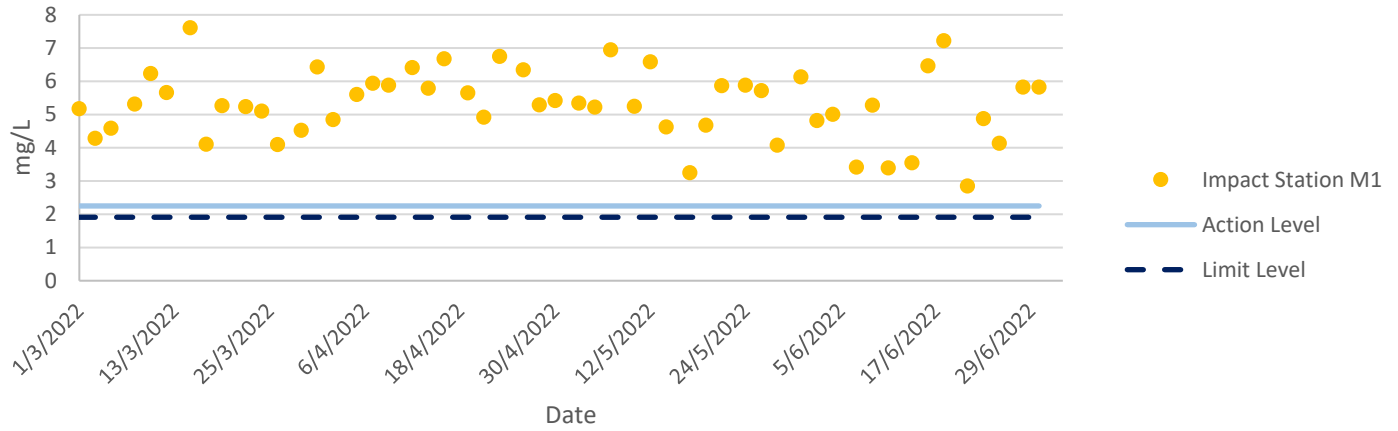


Total Suspended Solids at Mid-Flood Tide

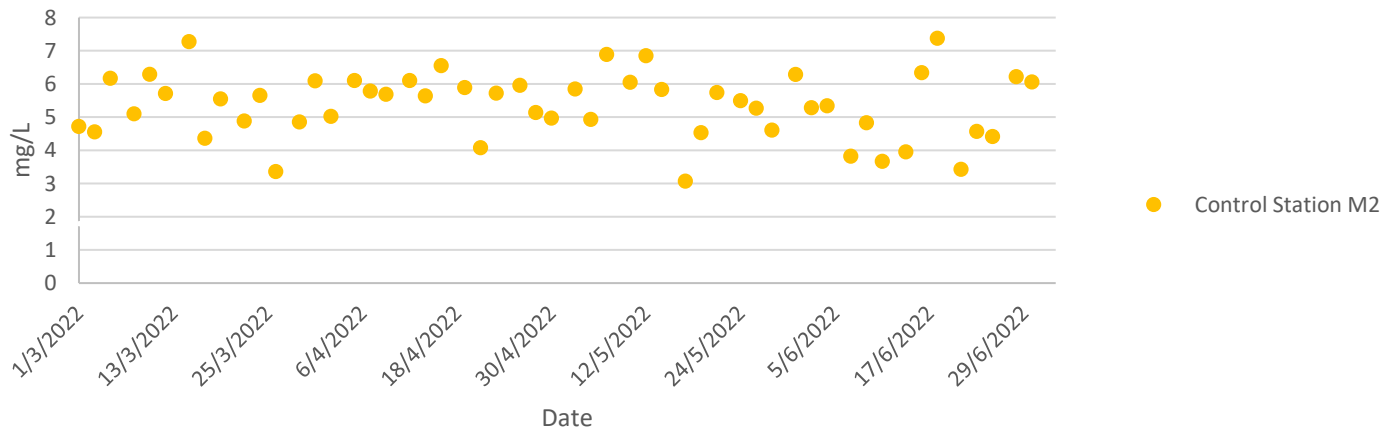


Water Quality Monitoring Results

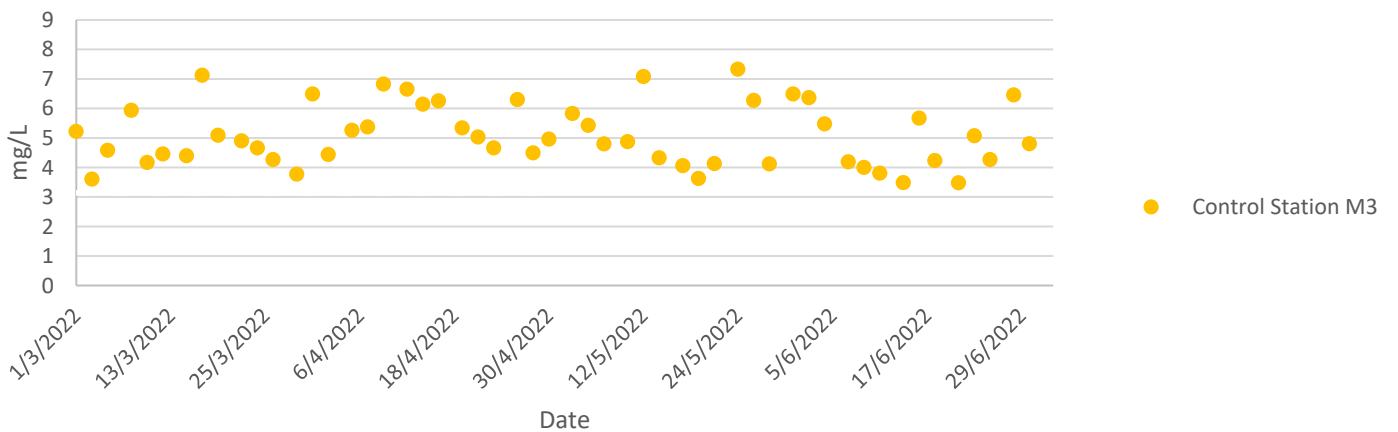
Dissolved Oxygen at Mid-Ebb Tide



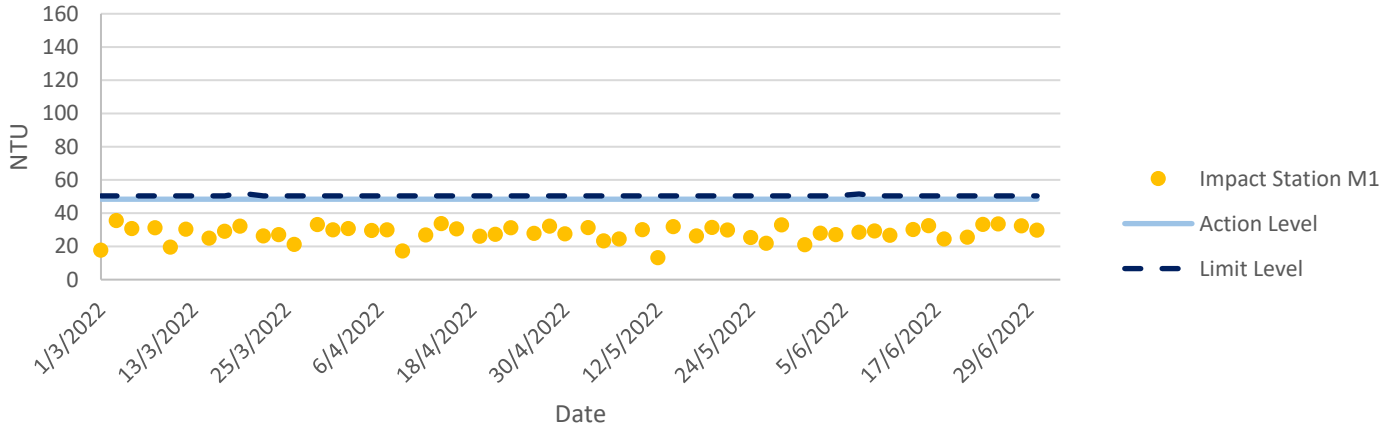
Dissolved Oxygen at Mid-Ebb Tide



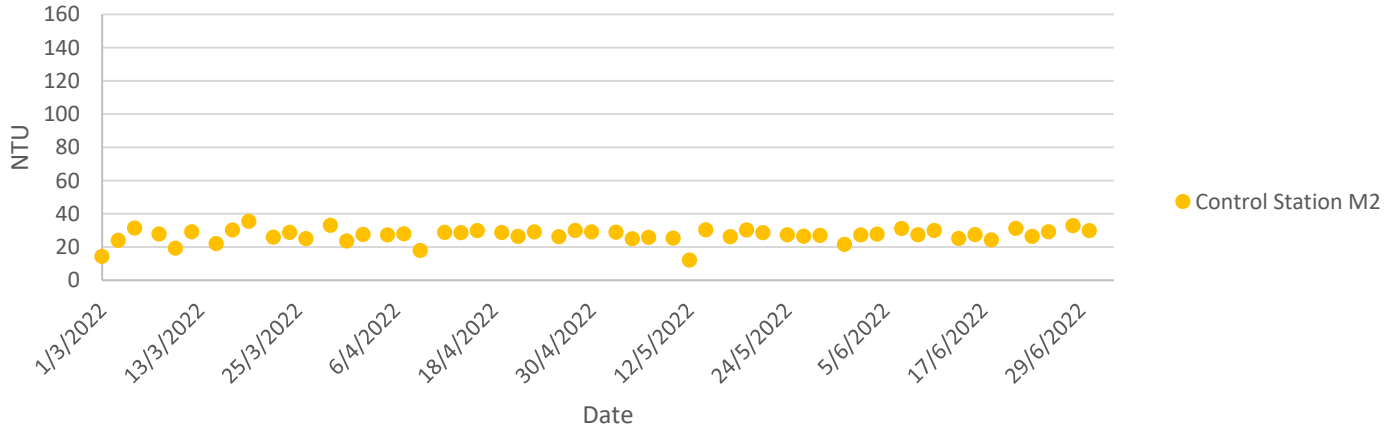
Dissolved Oxygen at Mid-Ebb Tide



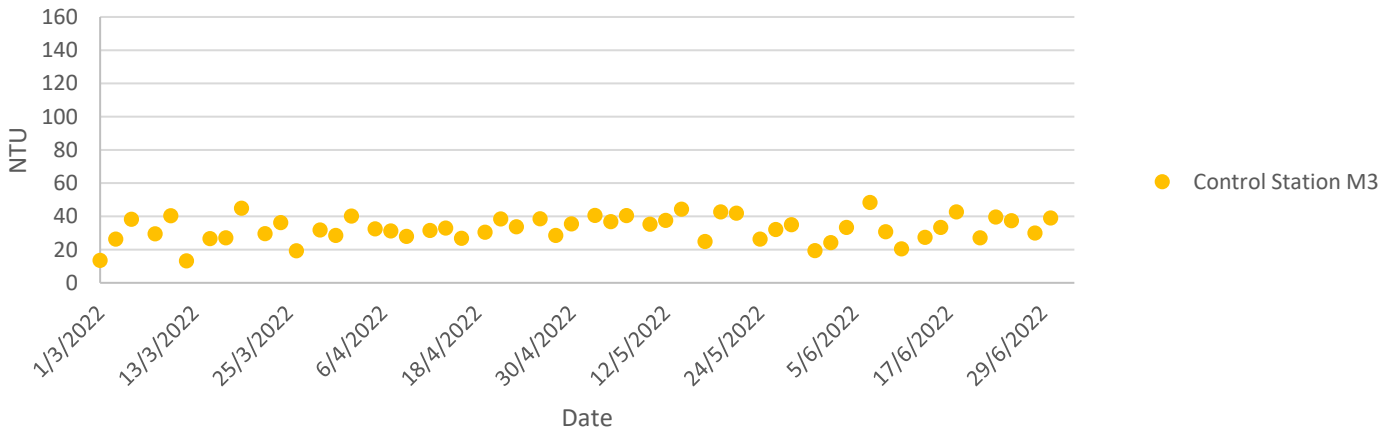
Turbidity at Mid-Ebb Tide



Turbidity at Mid-Ebb Tide

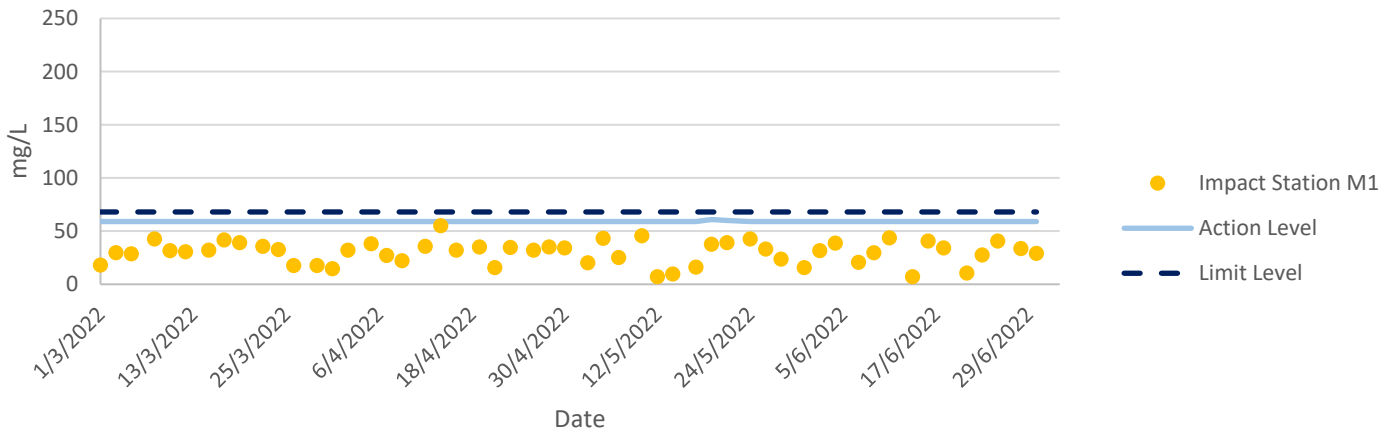


Turbidity at Mid-Ebb Tide

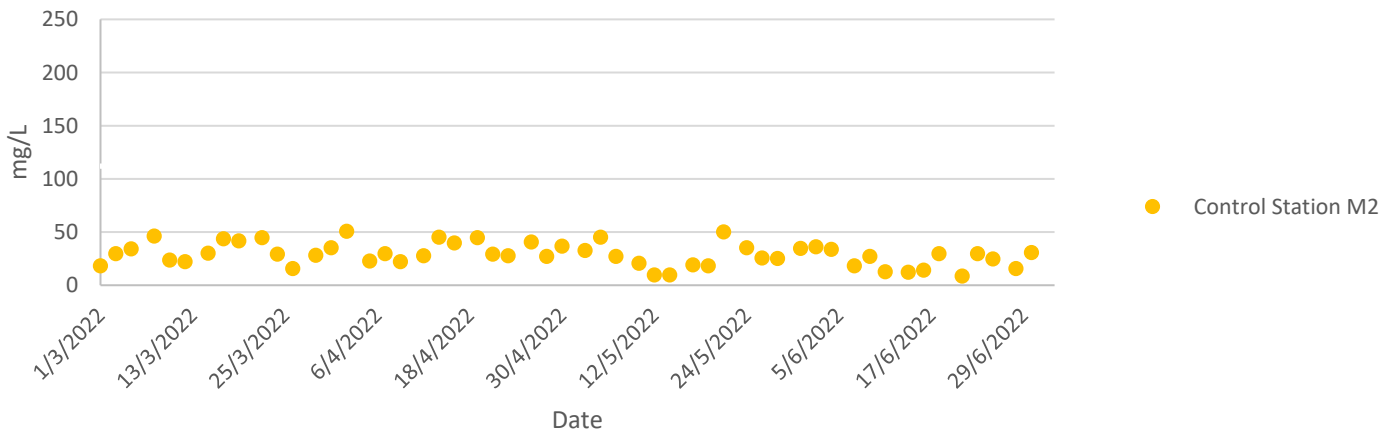


Water Quality Monitoring Results

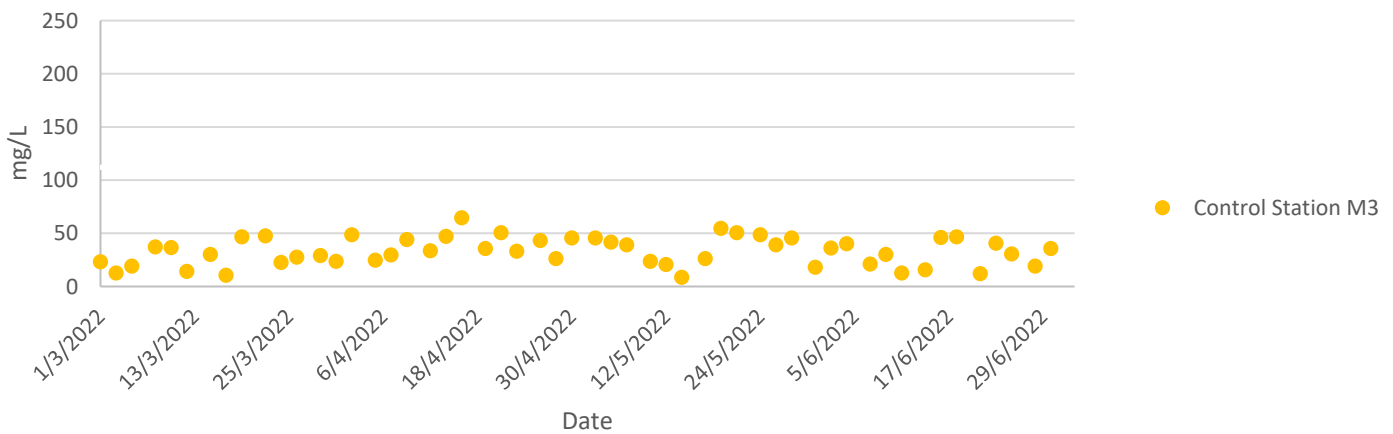
Total Suspended Solids at Mid-Ebb Tide



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 (13 & 17 June 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
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	In flight	House Swift	<i>Apus nipalensis</i>	2	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Great Egret	<i>Ardea alba</i>	4	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	11	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Transect	FLW	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	15	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Pied Kingfisher	<i>Ceryle rudis</i>	1	Uncommon	R	-	-	-	LC	LC	N	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW1	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW2	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	House Swift	<i>Apus nipalensis</i>	1	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW3	Pond-FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW4	Pond-FLW	Little Grebe	<i>Tachybaptus ruficollis</i>	1	Common	R	LC	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	9	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW5	Pond-FLW	White-shouldered Starling	<i>Sturnia sinensis</i>	2	Common	PM	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW6	Pond-FLW	Little Egret	<i>Egretta garzetta</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	FLW	Point Count	FLW7	Pond-FLW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	In flight	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	In flight	House Swift	<i>Apus nipalensis</i>	2	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	Mangrove	Chinese Pond Heron	<i>Ardeola bacchus</i>	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	Mangrove	Little Egret	<i>Egretta garzetta</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

13/06/2022	Daytime	Wet Season	NSW	Transect	NSW	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	NSW1	Pond-NSW	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Found in Mai Po, Tsim Bei Tsui, Fung Lok Wai	-	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Eurasian Tree Sparrow	<i>Passer montanus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	1	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW2	In flight	House Swift	<i>Apus nipalensis</i>	1	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Modified Watercourse	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW3	In flight	House Swift	<i>Apus nipalensis</i>	6	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Great Egret	<i>Ardea alba</i>	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/06/2022	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Modified Watercourse	Plain Prinia	<i>Prinia inornata</i>	3	Common	R	-	-	-	LC	LC	N	N
17/06/2022	Night-time	Wet Season	NSW	Transect	NSW	Plantation-NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	10	Abundant	R	-	-	-	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 (13 & 17 June 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	14	0.109375	-2.21297	-0.24204	0.535637
<i>Apus nipalensis</i>	8	0.0625	-2.77259	-0.17329	0.480453
<i>Ardea alba</i>	8	0.0625	-2.77259	-0.17329	0.480453
<i>Ardeola bacchus</i>	38	0.296875	-1.21444	-0.36054	0.437853
<i>Ceryle rudis</i>	1	0.007813	-4.85203	-0.03791	0.183923
<i>Copsychus saularis</i>	1	0.007813	-4.85203	-0.03791	0.183923
<i>Dicrurus macrocercus</i>	1	0.007813	-4.85203	-0.03791	0.183923
<i>Egretta garzetta</i>	3	0.023438	-3.75342	-0.08797	0.330191
<i>Gracupica nigricollis</i>	3	0.023438	-3.75342	-0.08797	0.330191
<i>Motacilla alba</i>	5	0.039063	-3.24259	-0.12666	0.410719
<i>Passer montanus</i>	14	0.109375	-2.21297	-0.24204	0.535637
<i>Prinia flaviventris</i>	5	0.039063	-3.24259	-0.12666	0.410719
<i>Prinia inornata</i>	12	0.09375	-2.36712	-0.22192	0.525307
<i>Pycnonotus sinensis</i>	5	0.039063	-3.24259	-0.12666	0.410719
<i>Spilopelia chinensis</i>	4	0.03125	-3.46574	-0.1083	0.375354
<i>Streptopelia decaocto</i>	3	0.023438	-3.75342	-0.08797	0.330191
<i>Sturnia sinensis</i>	2	0.015625	-4.15888	-0.06498	0.270255
<i>Tachybaptus ruficollis</i>	1	0.007813	-4.85203	-0.03791	0.183923
Total	128	1	-61.5735	-2.38193	6.599372
Richness	18				
SS	6.6				
SQ	5.67				
H	2.38				
S²_H	0.01				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (13 & 17 June 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	8	0.16	-1.83258	-0.29321	0.537337
<i>Ardeola bacchus</i>	38	0.76	-0.27444	-0.20857	0.05724
<i>Egretta garzetta</i>	3	0.06	-2.81341	-0.1688	0.474917
<i>Tachybaptus ruficollis</i>	1	0.02	-3.91202	-0.07824	0.306078
Total	50	1	-8.83245	-0.74883	1.375572
Richness	4				
SS	1.38				
SQ	0.56				
H	0.75				
S²_H	0.02				

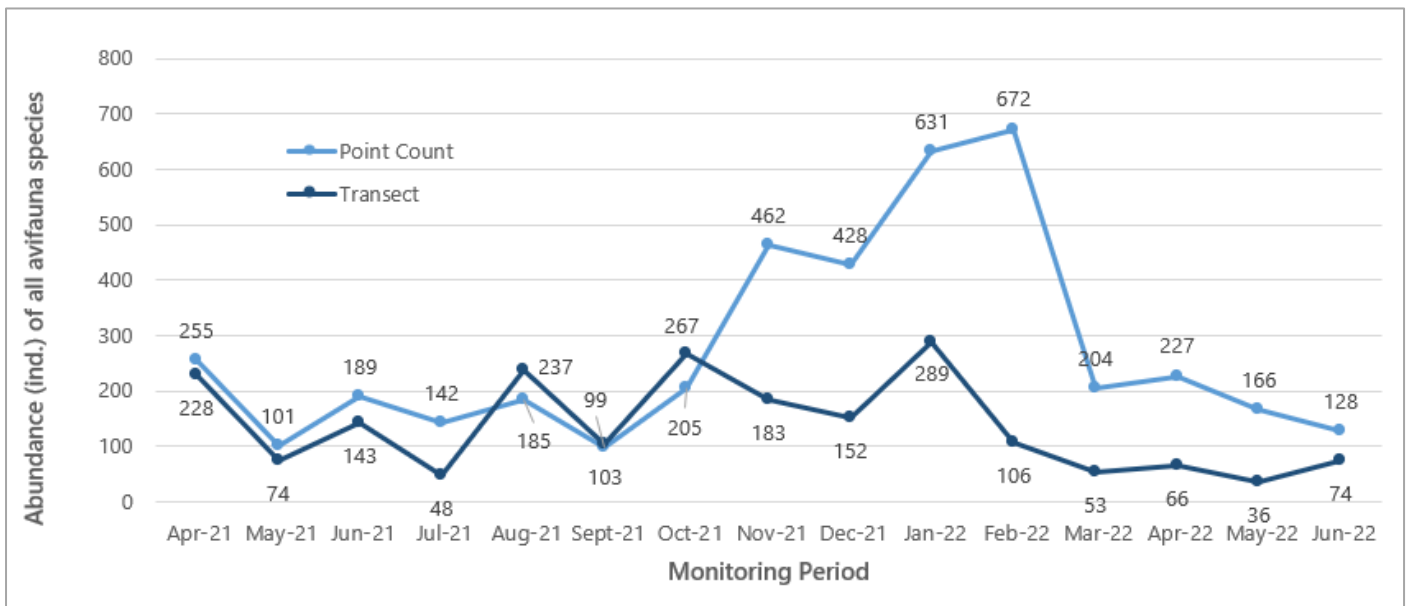
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (13 & 17 June 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	8	0.108108	-2.22462	-0.2405	0.535022
<i>Apus nipalensis</i>	4	0.054054	-2.91777	-0.15772	0.460183
<i>Ardea alba</i>	4	0.054054	-2.91777	-0.15772	0.460183
<i>Ardeola bacchus</i>	19	0.256757	-1.35963	-0.34909	0.474636
<i>Egretta garzetta</i>	19	0.256757	-1.35963	-0.34909	0.474636
<i>Garrulax perspicillatus</i>	10	0.135135	-2.00148	-0.27047	0.541341
<i>Gracupica nigricollis</i>	1	0.013514	-4.30407	-0.05816	0.250338
<i>Motacilla alba</i>	2	0.027027	-3.61092	-0.09759	0.352398
<i>Prinia inornata</i>	2	0.027027	-3.61092	-0.09759	0.352398
<i>Pycnonotus sinensis</i>	4	0.054054	-2.91777	-0.15772	0.460183
<i>Spilopelia chinensis</i>	1	0.013514	-4.30407	-0.05816	0.250338
Total	74	1	-31.5286	-1.99382	4.611655
Richness	11				
SS	4.611655				
SQ	3.975316				
H	1.993819				
S²_H	0.009512				

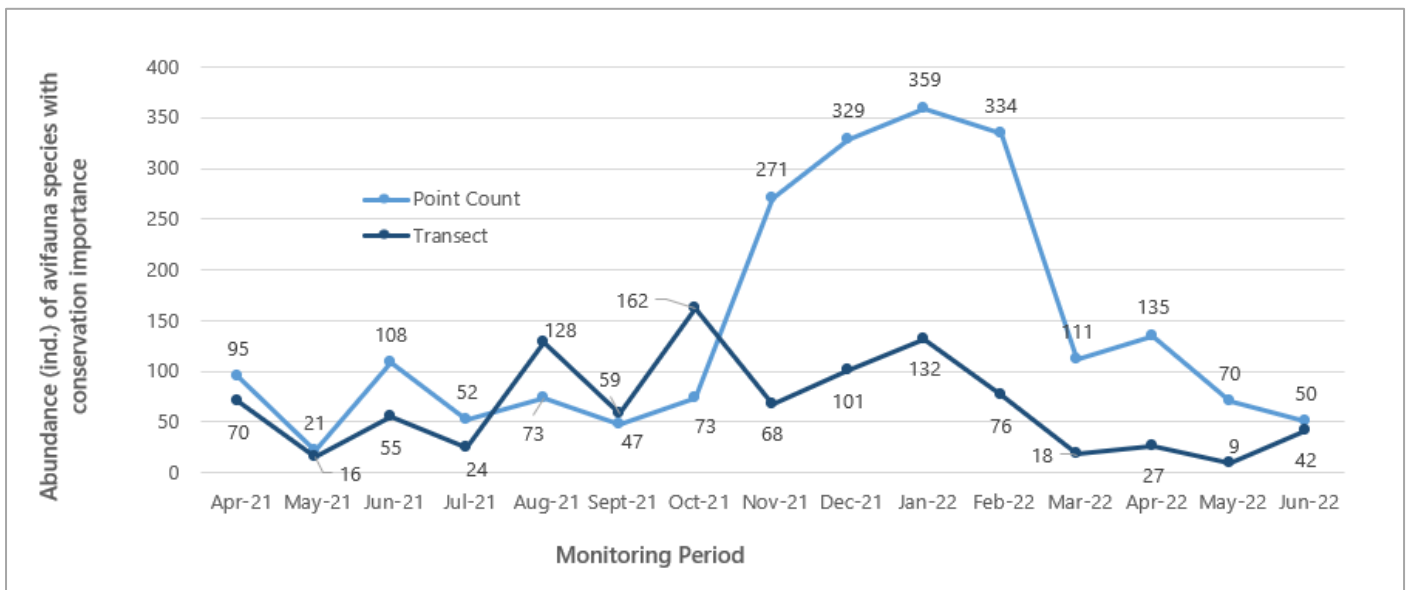
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (13 & 17 June 2022)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	4	0.095238	-2.35138	-0.22394	0.526568
<i>Ardeola bacchus</i>	19	0.452381	-0.79323	-0.35884	0.284645
<i>Egretta garzetta</i>	19	0.452381	-0.79323	-0.35884	0.284645
Total	42	1	-3.93784	-0.94163	1.095858
Richness	3				
SS	1.095858				
SQ	0.886658				
H	0.941625				
S²_H	0.005548				

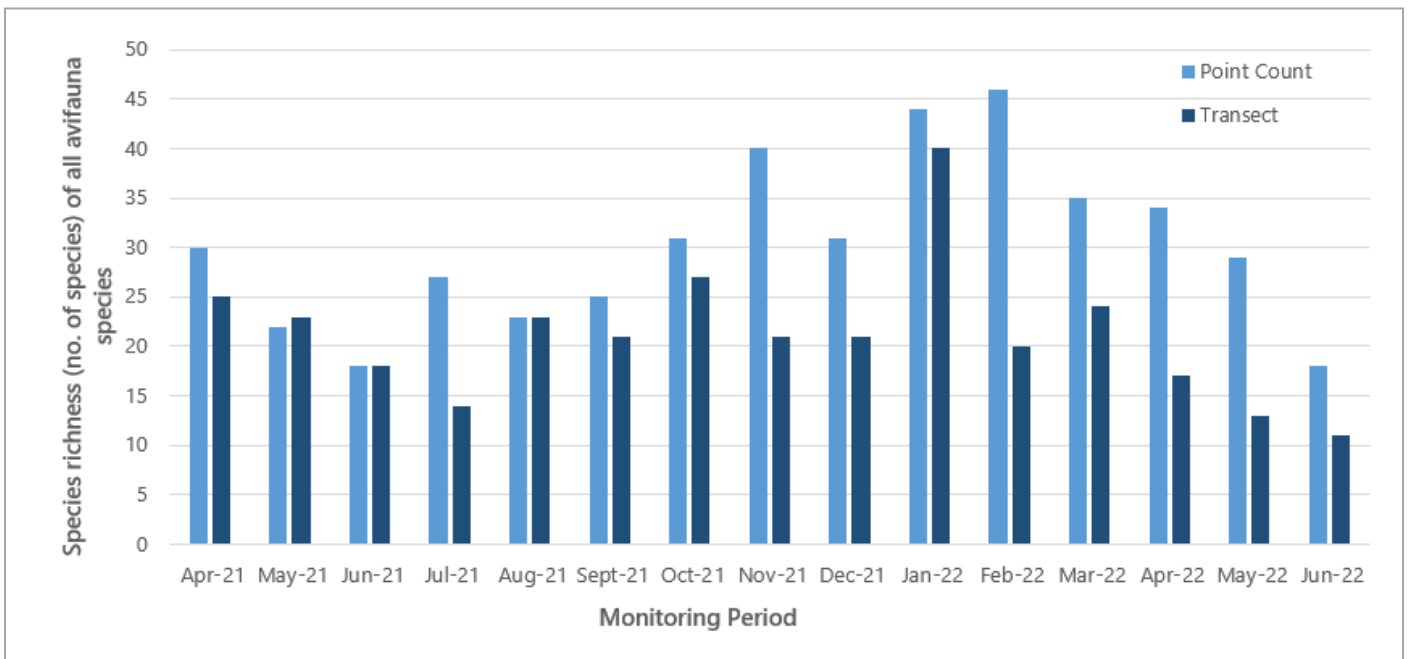
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



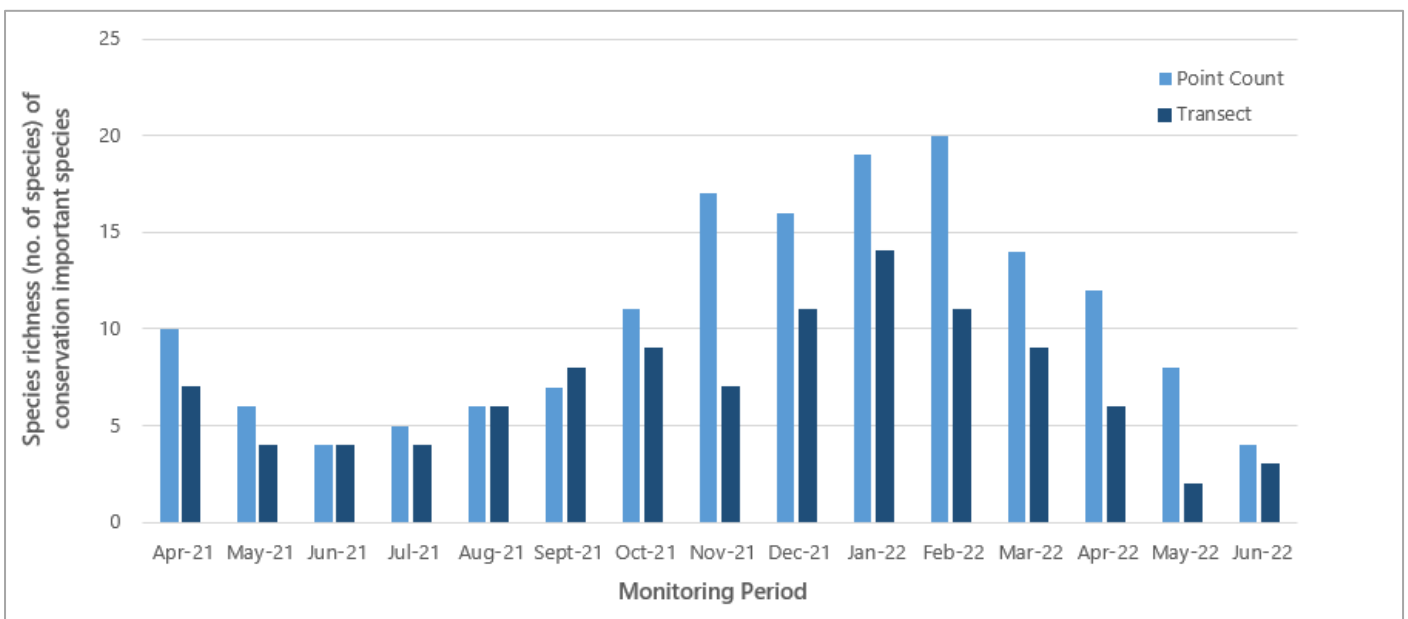
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



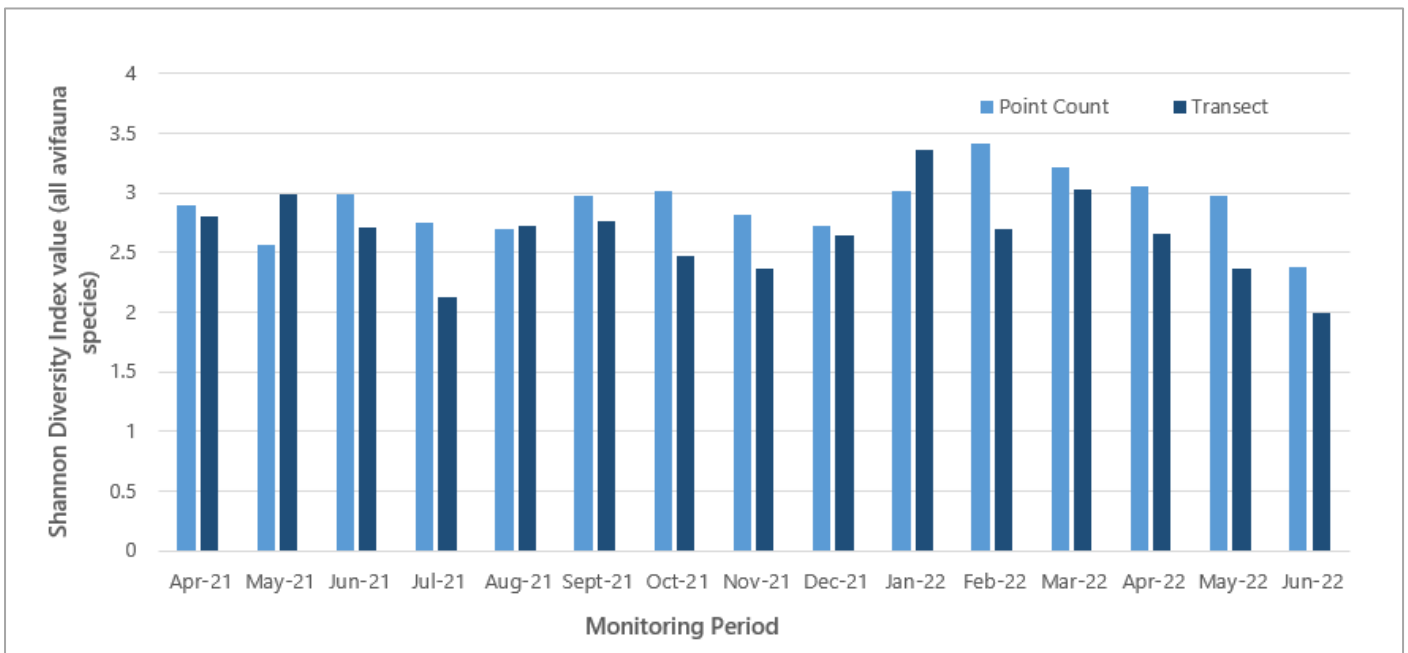
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



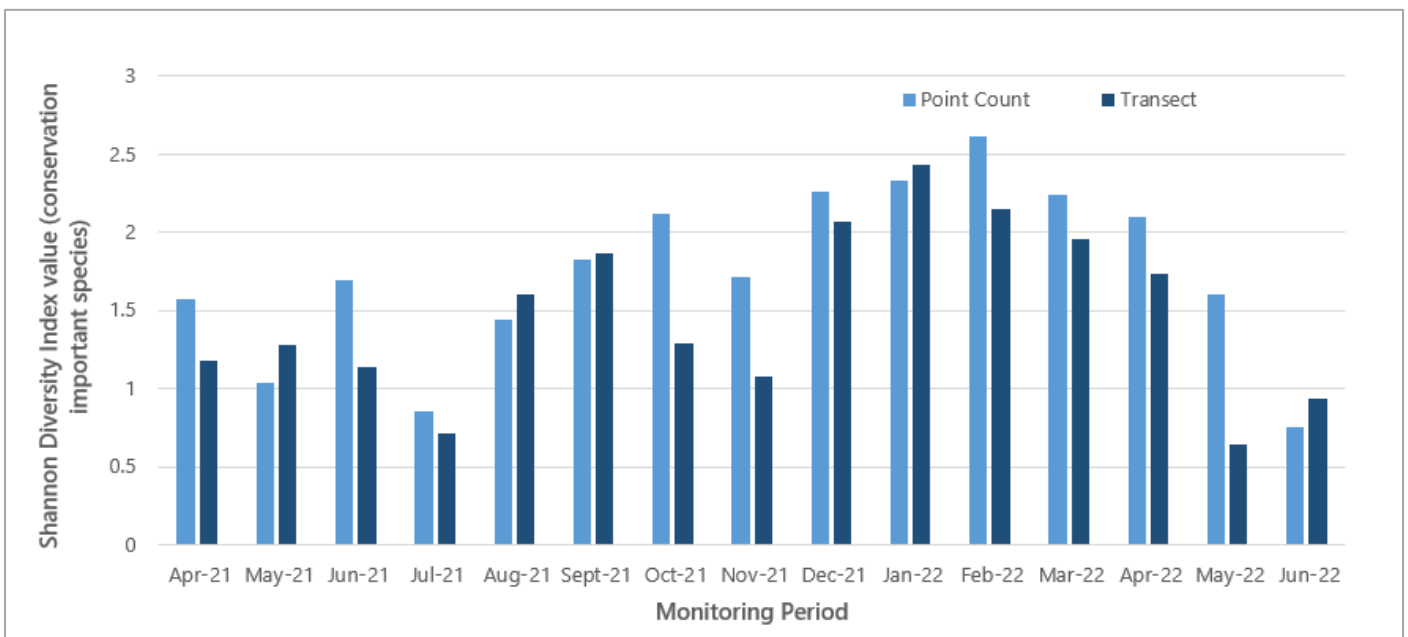
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	June 2017	June 2022
Total	121	128
Richness	25	18
H	2.87	2.38
S ² _H	0.006	0.008
t	4.11	
df	247.13	
Crit	1.97	
p	0.00	
CI	0.16	0.18

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

Months	June 2017	June 2022
Total	69	74
Richness	13	11
H	2.09	1.99
S ² _H	0.012	0.009512
t	0.648708151	
df	140	
Crit	1.97705372	
p	0.517589712	
CI	0.216340838	0.195062

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

Months	June 2017	June 2022
Total	45	50
Richness	5	4
H	1.43	0.75
S ² _H	0.007	0.017
t	4.36	
df	85.28	
Crit	1.99	
p	0.00	
CI	0.17	0.26

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

Months	June 2017	June 2022
Total	40	42

Months	June 2017	June 2022
Richness	3	3
H	1.04	0.94
S^2_H	0.004	0.005548
t	1.024070648	
df	79	
Crit	1.99045021	
p	0.308927543	
CI	0.120462963	0.148968