
Air Quality Monitoring Results

**1-hour TSP Monitoring Result 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 ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Aug-21	Fine	08:37	51	54	44	291	500
7-Aug-21	Cloudy	08:52	36	38	42		
13-Aug-21	Fine	08:29	29	36	39		
19-Aug-21	Fine	09:45	17	20	26		
25-Aug-21	Fine	13:11	24	30	21		
31-Aug-21	Fine	11:13	26	32	29		
		Min	17				
		Max	54				
		Average	33				

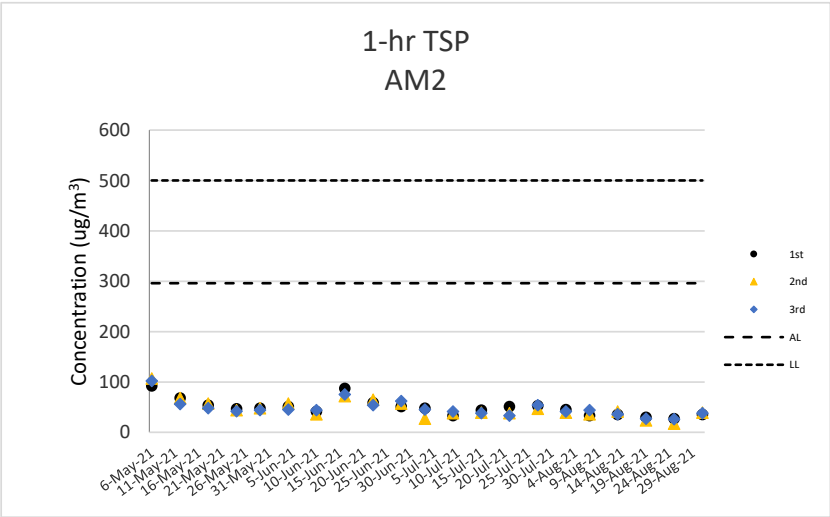
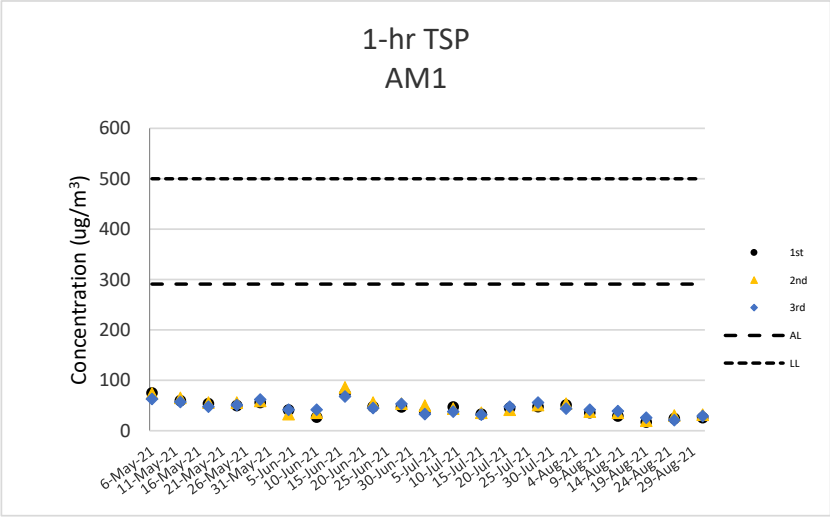
AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Aug-21	Fine	09:12	45	39	41	296	500
7-Aug-21	Cloudy	08:35	33	36	44		
13-Aug-21	Fine	09:08	35	41	36		
19-Aug-21	Fine	09:55	30	24	27		
25-Aug-21	Fine	13:29	27	17	26		
31-Aug-21	Fine	11:24	35	39	38		
		Min	17				
		Max	45				
		Average	34				

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



Noise Monitoring Results

**Noise Impact Monitoring Result 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)
2-Aug-21	10:40	52	54	48	0.7	Fine	75
13-Aug-21	10:51	52	56	49	0.4	Cloudy	75
19-Aug-21	12:50	53	56	51	0.2	Fine	75
25-Aug-21	15:06	54	56	50	0.7	Fine	75
31-Aug-21	10:02	54	56	52	0.2	Fine	75
	Max	54					
	Min	52					

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)
2-Aug-21	09:37	54	59	51	0.6	Fine	75
13-Aug-21	09:21	56	58	52	0.8	Cloudy	75
19-Aug-21	10:08	56	59	52	0.2	Fine	75
25-Aug-21	13:33	56	59	54	0.8	Fine	75
31-Aug-21	11:29	58	61	53	0.2	Fine	75
	Max	58					
	Min	54					

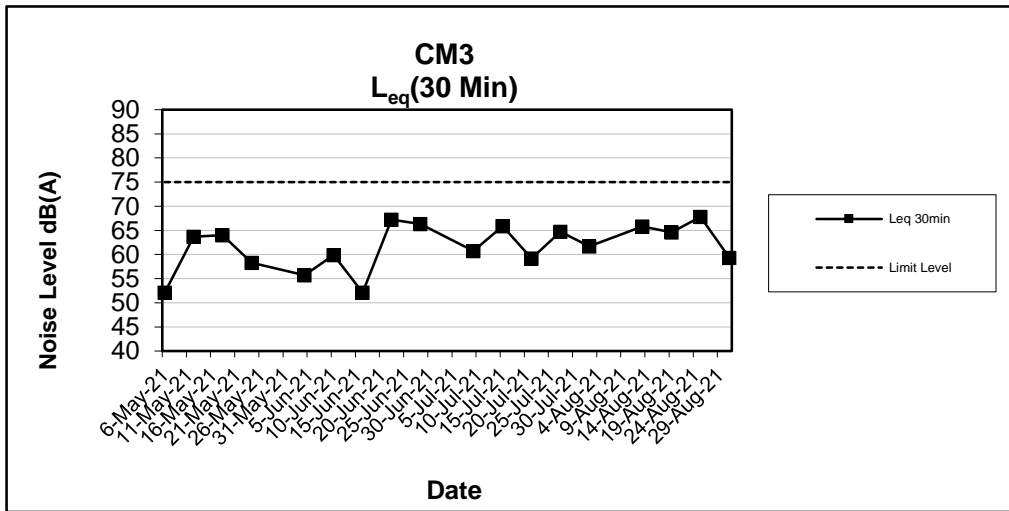
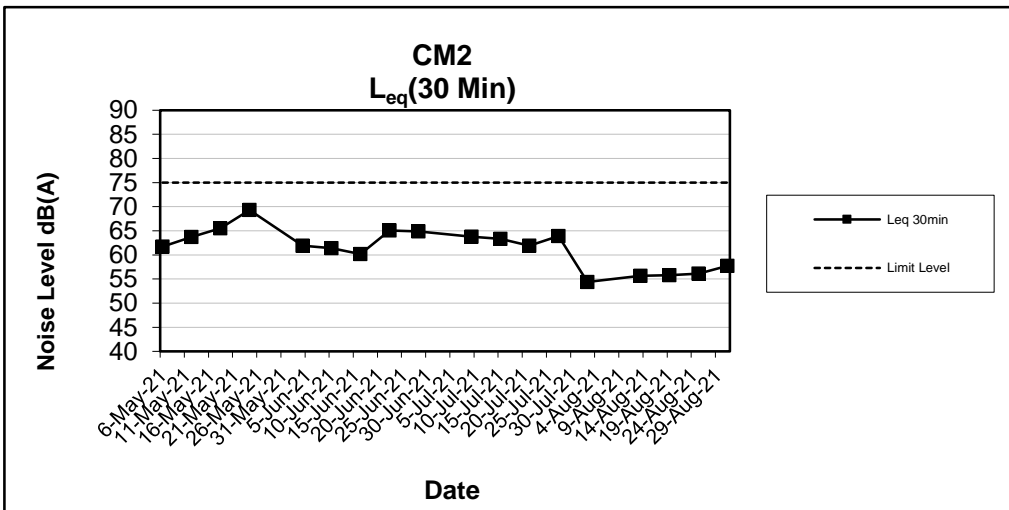
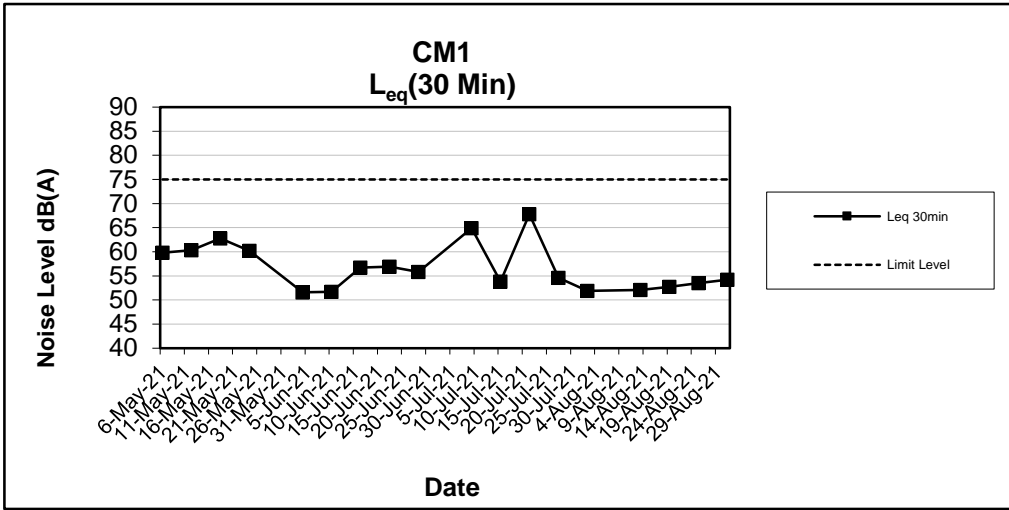
CM3 - Squatter house to the east of YLSTW

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)
2-Aug-21	11:29	62	65	57	0.8	Fine	75
13-Aug-21	11:37	66	68	60	0.9	Cloudy	75
19-Aug-21	13:56	65	67	60	0.2	Fine	75
25-Aug-21	14:12	68	70	64	0.8	Fine	75
31-Aug-21	13:06	59	63	55	0.3	Fine	75
	Max	68					
	Min	59					

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.



Water Quality Monitoring Results

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	3/8/2021	Mid-Flood	Cloudy	Moderate	17:43	1.4	M	0.7	1	0.139	247	8.03	8.03	0.63	0.63	30.12	30.13	45.1	45.0	3.39	3.38	38.8	38.8	48	47
M1	3/8/2021	Mid-Flood	Cloudy	Moderate	17:43	1.4	M	0.7	2			8.03	8.03	0.63	0.63	30.14	30.13	44.9	45.0	3.37	3.38	38.8	38.8	45	47
M2	3/8/2021	Mid-Flood	Cloudy	Moderate	17:26	1.1	M	0.55	1	0.178	243	7.91	7.91	0.69	0.69	30.92	30.92	34.3	34.2	2.54	2.54	42.9	42.9	63	64
M2	3/8/2021	Mid-Flood	Cloudy	Moderate	17:26	1.1	M	0.55	2			7.91	7.91	0.69	0.69	30.91	30.92	34.1	34.2	2.53	2.54	42.9	42.9	65	64
M3	3/8/2021	Mid-Flood	Cloudy	Calm	17:35	1.1	M	0.55	1	0.035	221	8.31	8.34	0.17	0.17	29.17	29.18	52.7	52.9	4.02	4.06	48.3	48.4	73	72
M3	3/8/2021	Mid-Flood	Cloudy	Calm	17:35	1.1	M	0.55	2			8.37	8.34	0.16	0.17	29.19	29.18	53.1	52.9	4.10	4.06	48.4	48.4	71	72
M1	3/8/2021	Mid-Ebb	Cloudy	Moderate	10:21	1.2	M	0.6	1	0.159	177	7.11	7.12	0.77	0.77	31.41	31.41	30.8	30.7	2.35	2.35	25.5	25.6	37	38
M1	3/8/2021	Mid-Ebb	Cloudy	Moderate	10:21	1.2	M	0.6	2			7.12	7.12	0.77	0.77	31.41	31.41	30.6	30.7	2.34	2.35	25.6	25.6	38	38
M2	3/8/2021	Mid-Ebb	Cloudy	Moderate	10:35	0.8	M	0.4	1	0.182	180	7.57	7.57	0.79	0.79	31.20	31.22	36.3	36.2	2.68	2.67	24.3	24.4	35	34
M2	3/8/2021	Mid-Ebb	Cloudy	Moderate	10:35	0.8	M	0.4	2			7.57	7.57	0.79	0.79	31.23	31.22	36.0	36.2	2.66	2.67	24.4	24.4	33	34
M3	3/8/2021	Mid-Ebb	Cloudy	Calm	10:05	0.9	M	0.45	1	0.058	82	8.34	8.36	0.11	0.12	30.43	30.44	45.5	45.7	3.64	3.67	56.1	56.1	110	103
M3	3/8/2021	Mid-Ebb	Cloudy	Calm	10:05	0.9	M	0.45	2			8.37	8.36	0.12	0.12	30.44	30.44	45.8	45.7	3.69	3.67	56.1	56.1	96	103

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	46.6	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	52.3	82.2	89.05

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	5/8/2021	Mid-Flood	Cloudy	Moderate	19:38	1.4	M	0.7	1	0.042	74	7.35	7.36	1.14	1.15	28.34	28.34	60.2	60.3	4.47	4.48	35.8	35.8	27	27
M1	5/8/2021	Mid-Flood	Cloudy	Moderate	19:38	1.4	M	0.7	2			7.36	7.36	1.15	1.15	28.34	28.34	60.3	60.3	4.48	4.48	35.8	35.8	26	26
M2	5/8/2021	Mid-Flood	Cloudy	Moderate	19:20	1.2	M	0.6	1	0.037	104	7.35	7.37	1.04	1.13	28.62	28.62	59.1	58.3	4.31	4.32	38.2	38.2	43	43
M2	5/8/2021	Mid-Flood	Cloudy	Moderate	19:20	1.2	M	0.6	2			7.38	7.37	1.21	1.13	28.62	28.62	57.4	58.3	4.32	4.32	38.2	38.2	42	42
M3	5/8/2021	Mid-Flood	Cloudy	Smooth	19:16	0.8	M	0.4	1	0.080	85	7.18	7.18	0.50	0.50	27.34	27.34	53.7	53.6	4.15	4.15	44.0	44.0	31	33
M3	5/8/2021	Mid-Flood	Cloudy	Smooth	19:16	0.8	M	0.4	2			7.18	7.18	0.50	0.50	27.33	27.34	53.5	53.6	4.14	4.15	44.0	44.0	34	33
M1	5/8/2021	Mid-Ebb	Cloudy	Moderate	11:53	0.9	M	0.45	1	0.026	142	7.41	7.42	2.61	2.63	27.31	27.32	51.8	51.7	3.84	3.83	34.2	34.2	33	32
M1	5/8/2021	Mid-Ebb	Cloudy	Moderate	11:53	0.9	M	0.45	2			7.42	7.42	2.64	2.63	27.32	27.32	51.6	51.7	3.81	3.83	34.2	34.2	31	31
M2	5/8/2021	Mid-Ebb	Cloudy	Moderate	12:12	0.8	M	0.4	1	0.041	155	7.58	7.56	1.84	1.87	27.34	27.35	49.7	49.7	3.71	3.70	35.4	35.4	28	30
M2	5/8/2021	Mid-Ebb	Cloudy	Moderate	12:12	0.8	M	0.4	2			7.54	7.56	1.89	1.87	27.35	27.35	49.6	49.7	3.68	3.70	35.3	35.4	31	31
M3	5/8/2021	Mid-Ebb	Cloudy	Smooth	11:46	0.6	M	0.3	1	0.111	256	7.16	7.16	0.24	0.24	28.65	28.64	55.9	55.8	4.32	4.32	41.6	41.6	34	34
M3	5/8/2021	Mid-Ebb	Cloudy	Smooth	11:46	0.6	M	0.3	2			7.16	7.16	0.24	0.24	28.62	28.64	55.6	55.8	4.31	4.32	41.6	41.6	33	33

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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

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.	Value	Ave.
M1	7/8/2021	Mid-Flood	Fine	Moderate	06:08	1.2	M	0.6	1	0.14	230	7.58	7.58	0.65	0.65	30.11	30.12	44.1	44.0	3.28	3.28	31.5	31.6	17	18
M1	7/8/2021	Mid-Flood	Fine	Moderate	06:08	1.2	M	0.6	2			7.58		0.65		30.12		43.9		3.27		31.6		18	
M2	7/8/2021	Mid-Flood	Fine	Moderate	06:28	1.3	M	0.65	1	0.173	249	8.01	8.01	0.68	0.68	32.30	32.20	32.3	32.2	2.35	2.34	34.2	34.3	15	16
M2	7/8/2021	Mid-Flood	Fine	Moderate	06:28	1.3	M	0.65	2			8.01		0.68		32.10		32.1		2.33		34.3		16	
M3	7/8/2021	Mid-Flood	Fine	Calm	06:22	0.8	M	0.4	1	0.168	73	7.01	7.02	0.77	0.77	29.97	29.97	45.6	45.5	3.41	3.41	38.0	38.0	20	21
M3	7/8/2021	Mid-Flood	Fine	Calm	06:22	0.8	M	0.4	2			7.02		0.76		29.97		45.4		3.40		37.9		22	
M1	7/8/2021	Mid-Ebb	Fine	Moderate	13:33	1.1	M	0.55	1	0.174	176	7.78	7.78	0.53	0.53	31.53	31.55	42.2	42.1	3.16	3.16	30.2	30.3	13	13
M1	7/8/2021	Mid-Ebb	Fine	Moderate	13:33	1.1	M	0.55	2			7.78		0.53		31.56		42.0		3.15		30.3		13	
M2	7/8/2021	Mid-Ebb	Fine	Moderate	13:16	1.1	M	0.55	1	0.169	159	7.61	7.61	0.78	0.78	31.61	31.62	37.4	37.3	2.79	2.78	29.6	29.6	20	21
M2	7/8/2021	Mid-Ebb	Fine	Moderate	13:16	1.1	M	0.55	2			7.61		0.78		31.62		37.2		2.77		29.5		22	
M3	7/8/2021	Mid-Ebb	Fine	Calm	13:11	0.6	M	0.3	1	0.204	263	7.13	7.14	0.49	0.49	30.83	30.83	48.9	49.1	3.66	3.67	24.4	24.5	14	14
M3	7/8/2021	Mid-Ebb	Fine	Calm	13:11	0.6	M	0.3	2			7.14		0.49		30.82		49.2		3.68		24.5		13	

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.
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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

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.	Value	Ave.
M1	10/8/2021	Mid-Flood	Fine	Smooth	08:19	1.4	M	0.7	1	0.176	196	7.64	7.65	1.16	1.16	28.98	28.98	41.1	41.2	3.14	3.15	32.5	32.5	32	31
M1	10/8/2021	Mid-Flood	Fine	Smooth	08:19	1.4	M	0.7	2			7.65	7.65	1.16	1.16	28.97	28.98	41.3	41.2	3.16	3.15	32.5	32.5	30	31
M2	10/8/2021	Mid-Flood	Fine	Smooth	08:34	1.4	M	0.7	1	0.077	256	7.62	7.62	0.97	0.97	28.92	28.91	38.9	38.2	2.99	2.93	36.2	36.4	37	38
M2	10/8/2021	Mid-Flood	Fine	Smooth	08:34	1.4	M	0.7	2			7.61	7.62	0.97	0.97	28.89	28.91	37.5	38.2	2.87	2.93	36.6	36.4	37	38
M3	10/8/2021	Mid-Flood	Fine	Calm	08:10	1.8	M	0.9	1	0.024	122	7.07	7.08	0.45	0.46	29.65	29.64	43.2	43.1	3.30	3.29	32.2	32.2	36	35
M3	10/8/2021	Mid-Flood	Fine	Calm	08:10	1.8	M	0.9	2			7.08	7.08	0.47	0.46	29.62	29.64	42.9	43.1	3.28	3.29	32.2	32.2	34	35
M1	10/8/2021	Mid-Ebb	Fine	Smooth	15:24	1.8	M	0.9	1	0.092	280	7.66	7.66	0.91	0.91	29.40	29.41	40.3	40.1	3.10	3.09	34.2	34.3	38	36
M1	10/8/2021	Mid-Ebb	Fine	Smooth	15:24	1.8	M	0.9	2			7.66	7.66	0.91	0.91	29.41	29.41	39.9	40.1	3.08	3.09	34.3	34.3	34	36
M2	10/8/2021	Mid-Ebb	Fine	Smooth	15:09	1.2	M	0.6	1	0.135	109	7.86	7.87	0.77	0.77	29.27	29.26	36.5	36.3	2.80	2.79	38.0	37.8	33	36
M2	10/8/2021	Mid-Ebb	Fine	Smooth	15:09	1.2	M	0.6	2			7.87	7.87	0.77	0.77	29.24	29.26	36.1	36.3	2.78	2.79	37.6	37.8	38	36
M3	10/8/2021	Mid-Ebb	Fine	Calm	15:12	1.1	M	0.55	1	0.033	248	7.06	7.07	0.46	0.47	29.69	29.67	39.1	38.9	3.06	3.05	33.2	33.2	24	25
M3	10/8/2021	Mid-Ebb	Fine	Calm	15:12	1.1	M	0.55	2			7.08	7.07	0.47	0.47	29.65	29.67	38.7	38.9	3.04	3.05	33.2	33.2	25	25

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

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	12/8/2021	Mid-Flood	Fine	Calm	09:41	1.2	M	0.6	1	0.04	197	7.95	7.97	2.61	2.62	29.85	29.85	53.1	53.2	3.97	3.96	37.9	37.9	49	49
M1	12/8/2021	Mid-Flood	Fine	Calm	09:41	1.2	M	0.6	2			7.99	7.97	2.62	2.62	29.85	29.85	53.2	53.2	3.94	3.96	37.8	37.9	48	49
M2	12/8/2021	Mid-Flood	Fine	Calm	10:00	1.4	M	0.7	1	0.036	164	7.91	7.92	2.84	2.86	29.88	29.88	52.5	52.4	3.90	3.91	38.4	38.4	56	53
M2	12/8/2021	Mid-Flood	Fine	Calm	10:00	1.4	M	0.7	2			7.93	7.92	2.88	2.86	29.88	29.88	52.3	52.4	3.91	3.91	38.4	38.4	50	53
M3	12/8/2021	Mid-Flood	Fine	Calm	09:46	1	M	0.5	1	0.23	75	7.17	7.17	0.87	0.88	29.02	29.04	52.3	52.5	3.94	3.95	56.9	56.8	63	62
M3	12/8/2021	Mid-Flood	Fine	Calm	09:46	1	M	0.5	2			7.16	7.17	0.88	0.88	29.05	29.04	52.6	52.5	3.96	3.95	56.6	56.8	61	62
M1	12/8/2021	Mid-Ebb	Fine	Calm	16:28	0.8	M	0.4	1	0.065	59	7.61	7.63	3.32	3.32	29.91	29.91	49.1	48.9	3.62	3.61	37.9	37.9	37	38
M1	12/8/2021	Mid-Ebb	Fine	Calm	16:28	0.8	M	0.4	2			7.64	7.63	3.31	3.32	29.91	29.91	48.6	48.9	3.59	3.61	37.9	37.9	38	38
M2	12/8/2021	Mid-Ebb	Fine	Calm	16:08	1.2	M	0.6	1	0.084	73	7.62	7.64	3.64	3.63	30.12	30.13	49.2	49.0	3.64	3.63	36.4	36.4	45	42
M2	12/8/2021	Mid-Ebb	Fine	Calm	16:08	1.2	M	0.6	2			7.66	7.64	3.61	3.63	30.14	30.13	48.7	49.0	3.61	3.63	36.4	36.4	38	42
M3	12/8/2021	Mid-Ebb	Fine	Calm	16:21	0.6	M	0.3	1	0.192	256	7.08	7.09	0.53	0.53	30.60	30.60	46.3	45.8	3.49	3.45	40.6	41.0	39	40
M3	12/8/2021	Mid-Ebb	Fine	Calm	16:21	0.6	M	0.3	2			7.09	7.09	0.53	0.53	30.60	30.60	45.3	45.8	3.41	3.45	41.4	41.0	41	40

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	45.4	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

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	14/8/2021	Mid-Flood	Cloudy	Calm	05:37	1.1	M	0.55	1	0.04	164	7.72	7.72	0.14	0.15	30.04	30.05	91.4	91.0	6.90	6.88	27.7	27.7	26	26
M1	14/8/2021	Mid-Flood	Cloudy	Calm	05:37	1.1	M	0.55	2			7.71	7.72	0.15	0.15	30.05	30.05	90.6	91.0	6.86	6.88	27.7	27.7	25	26
M2	14/8/2021	Mid-Flood	Cloudy	Calm	05:55	1.3	M	0.65	1	0.054	196	7.61	7.62	0.14	0.15	29.97	29.97	87.7	87.6	6.63	6.65	33.0	33.1	31	31
M2	14/8/2021	Mid-Flood	Cloudy	Calm	05:55	1.3	M	0.65	2			7.62	7.62	0.15	0.15	29.97	29.97	87.4	87.6	6.67	6.65	33.1	33.1	30	31
M3	14/8/2021	Mid-Flood	Cloudy	Smooth	05:04	0.6	M	0.3	1	0.094	246	7.24	7.24	0.43	0.44	28.91	28.91	44.9	45.1	3.37	3.38	51.1	51.0	34	35
M3	14/8/2021	Mid-Flood	Cloudy	Smooth	05:04	0.6	M	0.3	2			7.24	7.24	0.44	0.44	28.90	28.91	45.2	45.1	3.39	3.38	50.9	51.0	35	35
M1	14/8/2021	Mid-Ebb	Cloudy	Calm	11:46	0.8	M	0.4	1	0.095	349	7.62	7.63	0.94	0.97	29.73	29.74	80.2	80.8	6.08	6.05	35.4	35.4	30	30
M1	14/8/2021	Mid-Ebb	Cloudy	Calm	11:46	0.8	M	0.4	2			7.64	7.63	0.99	0.97	29.74	29.74	81.3	80.8	6.01	6.05	35.3	35.4	29	30
M2	14/8/2021	Mid-Ebb	Cloudy	Calm	11:26	1	M	0.5	1	0.055	317	7.53	7.54	1.03	1.04	29.91	29.92	79.2	79.2	5.94	5.94	34.1	34.1	28	28
M2	14/8/2021	Mid-Ebb	Cloudy	Calm	11:26	1	M	0.5	2			7.54	7.54	1.04	1.04	29.92	29.92	79.1	79.2	5.93	5.94	34.1	34.1	27	28
M3	14/8/2021	Mid-Ebb	Cloudy	Smooth	11:16	0.8	M	0.4	1	0.137	70	7.55	7.55	0.65	0.65	29.81	29.82	48.3	48.6	3.64	3.66	45.6	46.2	33	33
M3	14/8/2021	Mid-Ebb	Cloudy	Smooth	11:16	0.8	M	0.4	2			7.55	7.55	0.64	0.65	29.82	29.82	48.8	48.6	3.67	3.66	46.8	46.2	33	33

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	52.2	59	68

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	17/8/2021	Mid-Flood	Cloudy	Calm	16:38	1.4	M	0.7	1	0.083	104	7.62	7.63	0.48	0.48	29.41	29.42	60.2	60.3	4.09	4.09	31.1	31.2	48	48
M1	17/8/2021	Mid-Flood	Cloudy	Calm	16:38	1.4	M	0.7	2			7.63	7.63	0.47	0.48	29.42	29.42	60.2	60.3	4.08	4.09	31.2	31.2	47	
M2	17/8/2021	Mid-Flood	Cloudy	Calm	16:18	1.2	M	0.6	1	0.072	55	7.58	7.59	0.33	0.36	29.79	29.79	47.2	47.6	3.36	3.39	29.5	29.5	28	28
M2	17/8/2021	Mid-Flood	Cloudy	Calm	16:18	1.2	M	0.6	2			7.59	7.59	0.38	0.36	29.79	29.79	47.9	47.6	3.42	3.39	29.5	29.5	27	
M3	17/8/2021	Mid-Flood	Cloudy	Calm	16:19	0.4	M	0.2	1	0.068	66	7.47	7.47	0.74	0.74	29.95	29.95	49.9	49.9	3.81	3.81	35.6	35.7	14	14
M3	17/8/2021	Mid-Flood	Cloudy	Calm	16:19	0.4	M	0.2	2			7.46	7.47	0.73	0.74	29.94	29.95	49.8	49.9	3.80	3.81	35.7	35.7	13	
M1	17/8/2021	Mid-Ebb	Cloudy	Calm	08:31	0.9	M	0.45	1	0.041	265	7.63	7.64	0.54	0.55	29.78	29.78	44.1	44.2	2.98	3.00	22.3	22.3	32	32
M1	17/8/2021	Mid-Ebb	Cloudy	Calm	08:31	0.9	M	0.45	2			7.64	7.64	0.56	0.55	29.77	29.78	44.2	44.2	3.02	3.00	22.3	22.3	31	
M2	17/8/2021	Mid-Ebb	Cloudy	Calm	08:46	0.7	M	0.35	1	0.064	276	7.59	7.58	0.51	0.52	29.53	29.54	50.1	50.4	3.64	3.68	31.0	31.1	26	27
M2	17/8/2021	Mid-Ebb	Cloudy	Calm	08:46	0.7	M	0.35	2			7.57	7.58	0.52	0.52	29.54	29.54	50.6	50.4	3.71	3.68	31.2	31.1	27	
M3	17/8/2021	Mid-Ebb	Cloudy	Calm	08:29	0.6	M	0.3	1	0.171	257	6.92	6.92	0.50	0.51	29.23	29.22	47.8	47.7	3.66	3.65	53.3	53.5	36	35
M3	17/8/2021	Mid-Ebb	Cloudy	Calm	08:29	0.6	M	0.3	2			6.92	6.92	0.51	0.51	29.21	29.22	47.5	47.7	3.64	3.65	53.6	53.5	33	

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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	50.7	55.0	59	68

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	19/8/2021	Mid-Flood	Fine	Calm	19:40	1.3	M	0.65	1	0.128	230	7.17	7.17	0.54	0.54	27.12	27.13	98.2	98.1	5.67	5.66	38.3	38.3	47	46
M1	19/8/2021	Mid-Flood	Fine	Calm	19:40	1.3	M	0.65	2			7.17	7.17	0.54	0.54	27.14	27.13	98.0	98.1	5.65	5.66	38.3	38.3	45	46
M2	19/8/2021	Mid-Flood	Fine	Calm	19:06	1.2	M	0.6	1	0.166	240	7.43	7.43	0.48	0.48	27.54	27.55	79.3	79.2	7.11	7.10	36.4	36.5	34	35
M2	19/8/2021	Mid-Flood	Fine	Calm	19:06	1.2	M	0.6	2			7.43	7.43	0.48	0.48	27.56	27.55	79.1	79.2	7.09	7.10	36.5	36.5	36	35
M3	19/8/2021	Mid-Flood	Fine	Calm	19:00	1.4	M	0.7	1	0.038	282	7.43	7.44	0.16	0.18	31.07	31.08	66.8	66.9	5.05	5.05	28.3	28.3	16	16
M3	19/8/2021	Mid-Flood	Fine	Calm	19:00	1.4	M	0.7	2			7.44	7.44	0.19	0.18	31.08	31.08	66.9	66.9	5.04	5.05	28.3	28.3	15	16
M1	19/8/2021	Mid-Ebb	Fine	Calm	11:35	1.1	M	0.55	1	0.156	179	8.91	8.91	0.34	0.34	28.80	28.81	98.7	98.6	7.60	7.59	41.7	41.7	26	26
M1	19/8/2021	Mid-Ebb	Fine	Calm	11:35	1.1	M	0.55	2			8.90	8.91	0.34	0.34	28.81	28.81	98.5	98.6	7.58	7.59	41.7	41.7	26	26
M2	19/8/2021	Mid-Ebb	Fine	Calm	11:58	1	M	0.5	1	0.174	170	7.16	7.16	0.31	0.31	29.34	29.34	98.2	98.1	8.67	8.66	40.0	40.1	38	40
M2	19/8/2021	Mid-Ebb	Fine	Calm	11:58	1	M	0.5	2			7.16	7.16	0.31	0.31	29.34	29.34	98.0	98.1	8.65	8.66	40.1	40.1	42	40
M3	19/8/2021	Mid-Ebb	Fine	Calm	10:58	0.6	M	0.3	1	0.068	15	7.17	7.16	0.64	0.65	30.68	30.69	51.2	51.6	3.84	3.85	21.1	21.3	16	16
M3	19/8/2021	Mid-Ebb	Fine	Calm	10:58	0.6	M	0.3	2			7.14	7.16	0.66	0.65	30.70	30.69	51.9	51.6	3.85	3.85	21.4	21.3	16	16

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	46.0	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

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	21/8/2021	Mid-Flood	Fine	Calm	06:03	2.4	M	1.2	1	0.141	173	7.41	7.42	3.37	3.38	29.12	29.13	54.2	54.0	3.97	3.96	16.3	16.0	18	20
M1	21/8/2021	Mid-Flood	Fine	Calm	06:03	2.4	M	1.2	2			7.42	7.42	3.39	3.38	29.13	29.13	53.7	54.0	3.94	3.96	15.7	16.0	21	20
M2	21/8/2021	Mid-Flood	Fine	Calm	06:18	1.6	M	0.8	1	0.104	212	7.53	7.53	2.81	2.81	29.24	29.24	42.1	42.4	3.10	3.12	19.6	19.0	16	16
M2	21/8/2021	Mid-Flood	Fine	Calm	06:18	1.6	M	0.8	2			7.52	7.53	2.80	2.81	29.24	29.24	42.7	42.4	3.14	3.12	18.3	19.0	16	16
M3	21/8/2021	Mid-Flood	Fine	Calm	06:05	1.1	M	0.55	1	0.045	177	7.13	7.14	1.39	1.39	30.27	30.27	43.8	43.9	3.46	3.52	22.6	22.7	36	37
M3	21/8/2021	Mid-Flood	Fine	Calm	06:05	1.1	M	0.55	2			7.14	7.14	1.38	1.39	30.27	30.27	43.9	43.9	3.57	3.52	22.7	22.7	37	37
M1	21/8/2021	Mid-Ebb	Fine	Calm	13:17	1.8	M	0.9	1	0.273	194	7.36	7.37	1.46	1.46	31.39	31.38	40.3	40.5	2.95	2.96	18.5	18.5	20	20
M1	21/8/2021	Mid-Ebb	Fine	Calm	13:17	1.8	M	0.9	2			7.37	7.37	1.46	1.46	31.37	31.38	40.6	40.5	2.97	2.96	18.4	18.5	19	20
M2	21/8/2021	Mid-Ebb	Fine	Calm	13:01	1.2	M	0.6	1	0.209	166	7.26	7.26	1.20	1.21	31.34	31.34	34.9	35.1	2.56	2.57	21.2	20.9	20	19
M2	21/8/2021	Mid-Ebb	Fine	Calm	13:01	1.2	M	0.6	2			7.25	7.26	1.21	1.21	31.34	31.34	35.2	35.1	2.58	2.57	20.7	20.9	18	19
M3	21/8/2021	Mid-Ebb	Fine	Calm	13:00	0.9	M	0.45	1	0.03	85	7.11	7.13	1.36	1.36	30.37	30.37	48.1	47.9	4.04	3.98	22.1	22.1	18	21
M3	21/8/2021	Mid-Ebb	Fine	Calm	13:00	0.9	M	0.45	2			7.14	7.13	1.35	1.36	30.37	30.37	47.6	47.9	3.92	3.98	22.0	22.1	23	21

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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

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	24/8/2021	Mid-Flood	Fine	Calm	08:29	1.2	M	0.6	1	0.067	168	8.68	8.69	5.14	5.10	31.42	31.42	51.7	51.3	3.70	3.65	21.5	21.5	23	25
M1	24/8/2021	Mid-Flood	Fine	Calm	08:29	1.2	M	0.6	2			8.69	8.69	5.06	5.10	31.42	31.42	50.9	51.3	3.59	3.65	21.5	21.5	26	25
M2	24/8/2021	Mid-Flood	Fine	Calm	08:49	1.1	M	0.55	1	0.078	125	8.73	8.72	5.06	5.05	31.28	31.28	51.1	51.3	3.65	3.67	20.5	20.5	23	23
M2	24/8/2021	Mid-Flood	Fine	Calm	08:49	1.1	M	0.55	2			8.72	8.73	5.04	5.05	31.28	31.28	51.4	51.3	3.69	3.67	20.5	20.5	23	23
M3	24/8/2021	Mid-Flood	Fine	Calm	08:31	1.2	M	0.6	1	0.105	259	7.40	7.40	5.48	5.47	30.37	30.38	73.5	73.4	5.48	5.47	58.2	58.3	70	69
M3	24/8/2021	Mid-Flood	Fine	Calm	08:31	1.2	M	0.6	2			7.40	7.40	5.46	5.47	30.39	30.38	73.3	73.4	5.46	5.47	58.3	58.3	67	69
M1	24/8/2021	Mid-Ebb	Fine	Calm	15:26	0.8	M	0.4	1	0.072	61	8.25	8.26	3.94	3.97	31.15	31.15	58.2	58.2	4.22	4.21	17.6	17.9	21	22
M1	24/8/2021	Mid-Ebb	Fine	Calm	15:26	0.8	M	0.4	2			8.26	8.26	3.99	3.97	31.15	31.15	58.1	58.2	4.20	4.21	18.1	17.9	23	22
M2	24/8/2021	Mid-Ebb	Fine	Calm	15:09	0.9	M	0.45	1	0.081	55	8.64	8.63	3.99	3.98	31.45	31.45	55.1	55.0	3.99	3.98	19.8	19.8	24	26
M2	24/8/2021	Mid-Ebb	Fine	Calm	15:09	0.9	M	0.45	2			8.61	8.63	3.97	3.98	31.44	31.45	54.8	55.0	3.97	3.98	19.8	19.8	27	26
M3	24/8/2021	Mid-Ebb	Fine	Calm	15:16	0.8	M	0.4	1	0.096	91	7.31	7.31	1.18	1.18	30.27	30.27	80.7	80.8	6.04	6.05	62.4	62.4	71	71
M3	24/8/2021	Mid-Ebb	Fine	Calm	15:16	0.8	M	0.4	2			7.31	7.31	1.18	1.18	30.26	30.27	80.9	80.8	6.05	6.05	62.4	62.4	70	71

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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	49.3	53.4	59	68

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	26/8/2021	Mid-Flood	Fine	Moderate	09:51	1.2	M	0.6	1	0.037	167	7.89	7.89	3.17	3.17	30.76	30.76	49.2	49.3	3.82	3.83	30.1	30.2	32	32
M1	26/8/2021	Mid-Flood	Fine	Moderate	09:51	1.2	M	0.6	2			7.88	7.89	3.16	3.17	30.75	30.76	49.3	49.3	3.83	3.83	30.2	30.2	31	31
M2	26/8/2021	Mid-Flood	Fine	Moderate	10:10	1.4	M	0.7	1	0.058	80	7.76	7.75	3.26	3.25	29.75	29.77	51.4	51.5	3.92	3.93	31.3	31.3	46	47
M2	26/8/2021	Mid-Flood	Fine	Moderate	10:10	1.4	M	0.7	2			7.74	7.75	3.24	3.25	29.78	29.77	51.6	51.5	3.94	3.93	31.3	31.3	47	47
M3	26/8/2021	Mid-Flood	Fine	Calm	09:50	0.8	M	0.4	1	0.115	85	7.47	7.47	1.65	1.66	30.82	30.82	58.1	58.3	4.27	4.28	43.3	43.3	16	17
M3	26/8/2021	Mid-Flood	Fine	Calm	09:50	0.8	M	0.4	2			7.46	7.47	1.66	1.66	30.81	30.82	58.5	58.3	4.29	4.28	43.3	43.3	17	17
M1	26/8/2021	Mid-Ebb	Fine	Moderate	16:31	0.9	M	0.45	1	0.066	74	7.53	7.54	4.11	4.12	28.96	28.95	41.8	40.8	3.10	3.06	36.2	36.3	9	10
M1	26/8/2021	Mid-Ebb	Fine	Moderate	16:31	0.9	M	0.45	2			7.54	7.54	4.12	4.12	28.94	28.95	39.7	40.8	3.02	3.06	36.3	36.3	10	10
M2	26/8/2021	Mid-Ebb	Fine	Moderate	16:12	1.1	M	0.55	1	0.05	88	7.41	7.45	4.06	4.07	29.74	29.66	41.9	42.4	3.18	3.22	37.4	37.5	9	10
M2	26/8/2021	Mid-Ebb	Fine	Moderate	16:12	1.1	M	0.55	2			7.49	7.45	4.08	4.07	29.58	29.66	42.8	42.4	3.26	3.22	37.5	37.5	11	11
M3	26/8/2021	Mid-Ebb	Fine	Calm	16:06	0.6	M	0.3	1	0.253	241	7.23	7.23	0.83	0.83	31.57	31.55	50.9	50.7	3.72	3.71	50.2	49.9	53	53
M3	26/8/2021	Mid-Ebb	Fine	Calm	16:06	0.6	M	0.3	2			7.23	7.23	0.83	0.83	31.53	31.55	50.4	50.7	3.69	3.71	49.6	49.9	52	52

Remark

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

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74.3	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	52.4	56.8	59	68

Contract No. SPW 07/2020 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

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	28/8/2021	Mid-Flood	Fine	Moderate	11:04	1.2	M	0.6	1	0.056	196	7.54	7.53	0.67	0.67	28.47	28.48	51.2	51.1	4.89	4.85	37.5	37.5	35	35
M1	28/8/2021	Mid-Flood	Fine	Moderate	11:04	1.2	M	0.6	2			7.51	7.53	0.66	0.67	28.49	28.48	50.9	51.1	4.81	4.85	37.5	37.5	34	
M2	28/8/2021	Mid-Flood	Fine	Moderate	11:21	1.4	M	0.7	1	0.067	198	7.43	7.44	1.00	1.02	28.44	28.50	40.7	40.8	3.82	3.85	30.7	30.7	34	33
M2	28/8/2021	Mid-Flood	Fine	Moderate	11:21	1.4	M	0.7	2			7.44	7.44	1.03	1.02	28.56	28.50	40.8	40.8	3.88	3.85	30.7	30.7	32	
M3	28/8/2021	Mid-Flood	Fine	Smooth	11:07	0.6	M	0.3	1	0.093	74	7.73	7.73	1.69	1.69	28.80	28.81	55.9	55.7	4.09	4.07	47.7	47.8	40	42
M3	28/8/2021	Mid-Flood	Fine	Smooth	11:07	0.6	M	0.3	2			7.73	7.73	1.69	1.69	28.82	28.81	55.4	55.7	4.05	4.07	47.9	47.8	44	
M1	28/8/2021	Mid-Ebb	Fine	Moderate	17:11	1.1	M	0.55	1	0.036	65	7.74	7.73	3.18	3.19	30.29	30.29	47.3	47.3	3.45	3.46	36.4	36.4	22	23
M1	28/8/2021	Mid-Ebb	Fine	Moderate	17:11	1.1	M	0.55	2			7.72	7.73	3.19	3.19	30.29	30.29	47.2	47.3	3.46	3.46	36.4	36.4	23	
M2	28/8/2021	Mid-Ebb	Fine	Moderate	16:55	0.9	M	0.45	1	0.026	57	7.89	7.89	3.17	3.18	30.76	30.76	47.8	47.9	3.51	3.53	37.4	37.4	18	19
M2	28/8/2021	Mid-Ebb	Fine	Moderate	16:55	0.9	M	0.45	2			7.88	7.89	3.18	3.18	30.76	30.76	47.9	47.9	3.54	3.53	37.4	37.4	20	
M3	28/8/2021	Mid-Ebb	Fine	Smooth	16:59	0.4	M	0.2	1	0.139	262	7.57	7.57	3.61	3.60	29.39	29.38	49.4	49.3	3.61	3.60	38.7	38.8	38	38
M3	28/8/2021	Mid-Ebb	Fine	Smooth	16:59	0.4	M	0.2	2			7.57	7.57	3.59	3.60	29.37	29.38	49.2	49.3	3.59	3.60	38.9	38.8	38	

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	45.0	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

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	30/8/2021	Mid-Flood	Fine	Moderate	06:26	1.8	M	0.9	1	0.195	234	7.30	7.30	0.94	0.94	28.70	28.71	37.6	37.4	2.86	2.85	14.6	14.7	16	16
M1	30/8/2021	Mid-Flood	Fine	Moderate	06:26	1.8	M	0.9	2			7.30	7.30	0.93	0.94	28.71	28.71	37.2	37.4	2.83	2.85	14.7	14.7	15	15
M2	30/8/2021	Mid-Flood	Fine	Moderate	06:44	1.2	M	0.6	1	0.179	209	7.44	7.44	0.82	0.83	28.91	28.91	33.2	33.1	2.50	2.50	18.4	18.4	8	9
M2	30/8/2021	Mid-Flood	Fine	Moderate	06:44	1.2	M	0.6	2			7.43	7.43	0.84	0.83	28.91	28.91	33.0	33.1	2.49	2.50	18.4	18.4	9	9
M3	30/8/2021	Mid-Flood	Fine	Smooth	13:07	1.3	M	0.65	1	0.055	266	7.86	7.85	1.39	1.39	29.58	29.58	44.1	44.2	3.34	3.33	23.5	23.5	27	27
M3	30/8/2021	Mid-Flood	Fine	Smooth	13:07	1.3	M	0.65	2			7.84	7.84	1.38	1.39	29.57	29.58	44.2	44.2	3.32	3.33	23.4	23.4	26	26
M1	30/8/2021	Mid-Ebb	Fine	Moderate	13:16	1.6	M	0.8	1	0.103	148	7.64	7.64	2.55	2.55	29.49	29.49	39.7	39.5	3.02	3.01	16.3	16.3	15	15
M1	30/8/2021	Mid-Ebb	Fine	Moderate	13:16	1.6	M	0.8	2			7.64	7.64	2.54	2.55	29.48	29.49	39.3	39.5	2.99	3.01	16.3	16.3	16	16
M2	30/8/2021	Mid-Ebb	Fine	Moderate	13:00	1	M	0.5	1	0.141	229	7.77	7.77	2.43	2.43	29.68	29.69	36.9	37.0	2.79	2.80	23.2	23.2	22	22
M2	30/8/2021	Mid-Ebb	Fine	Moderate	13:00	1	M	0.5	2			7.76	7.76	2.43	2.43	29.69	29.69	37.1	37.0	2.80	2.80	23.2	23.2	22	22
M3	30/8/2021	Mid-Ebb	Fine	Smooth	06:47	0.9	M	0.45	1	0.065	43	7.72	7.73	1.42	1.43	29.66	29.66	39.7	39.8	3.11	3.09	17.3	17.4	20	21
M3	30/8/2021	Mid-Ebb	Fine	Smooth	06:47	0.9	M	0.45	2			7.73	7.73	1.43	1.43	29.65	29.66	39.8	39.8	3.06	3.09	17.5	17.4	21	21

Remark

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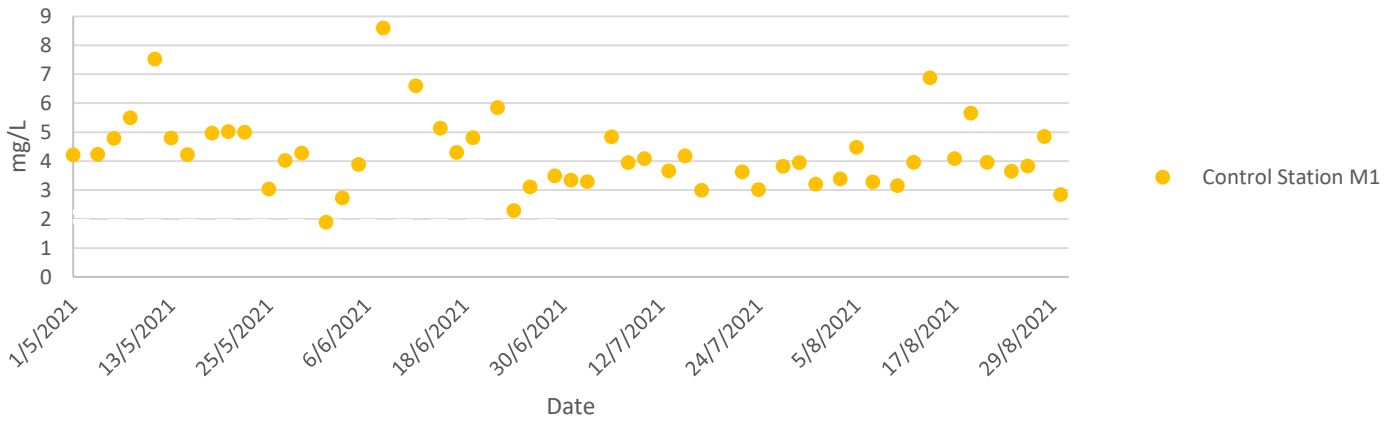
For Flood Tide

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

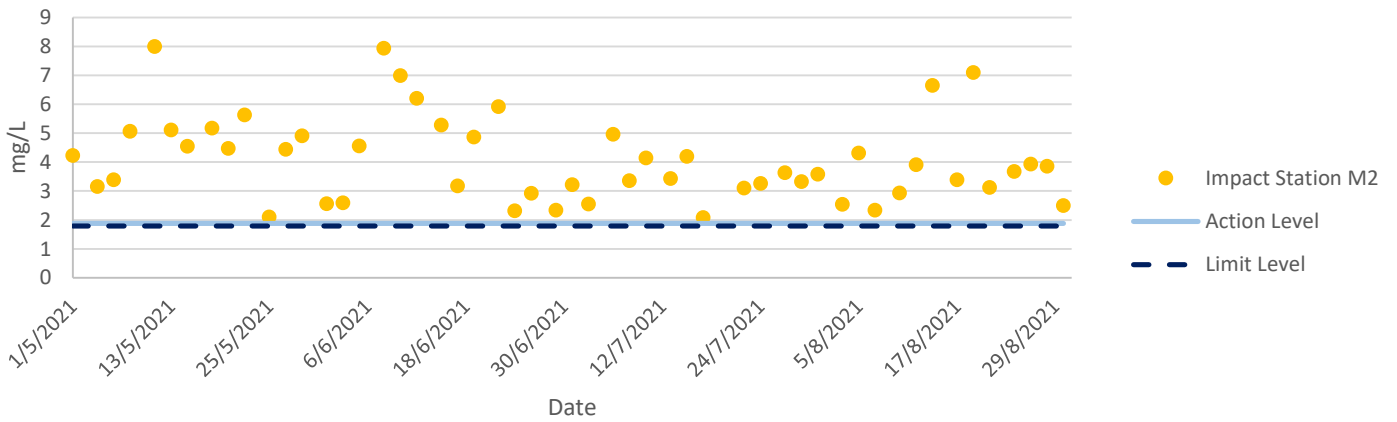
For Ebb Tide

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

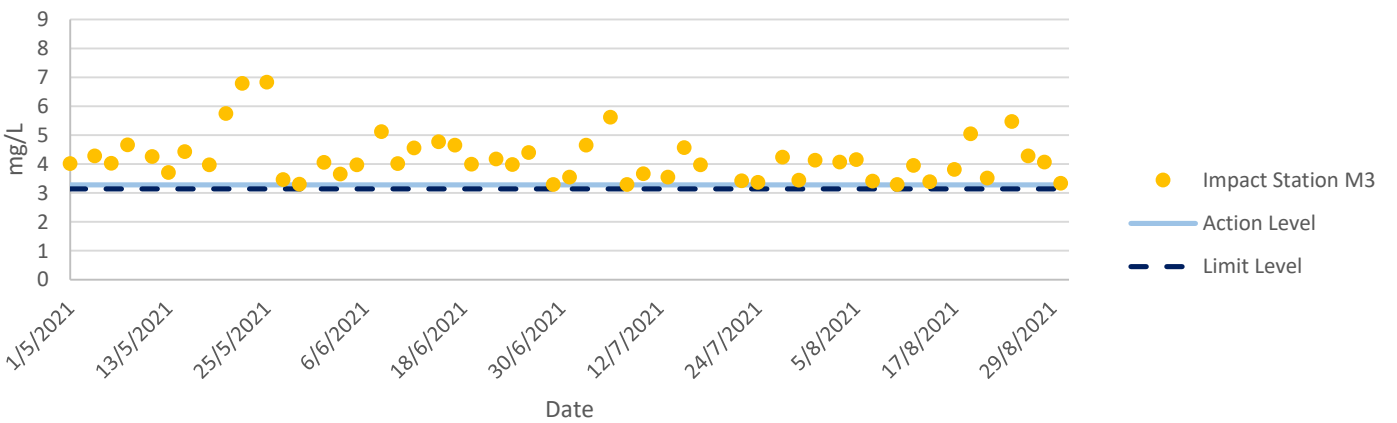
Dissolved Oxygen at Mid-Flood Tide



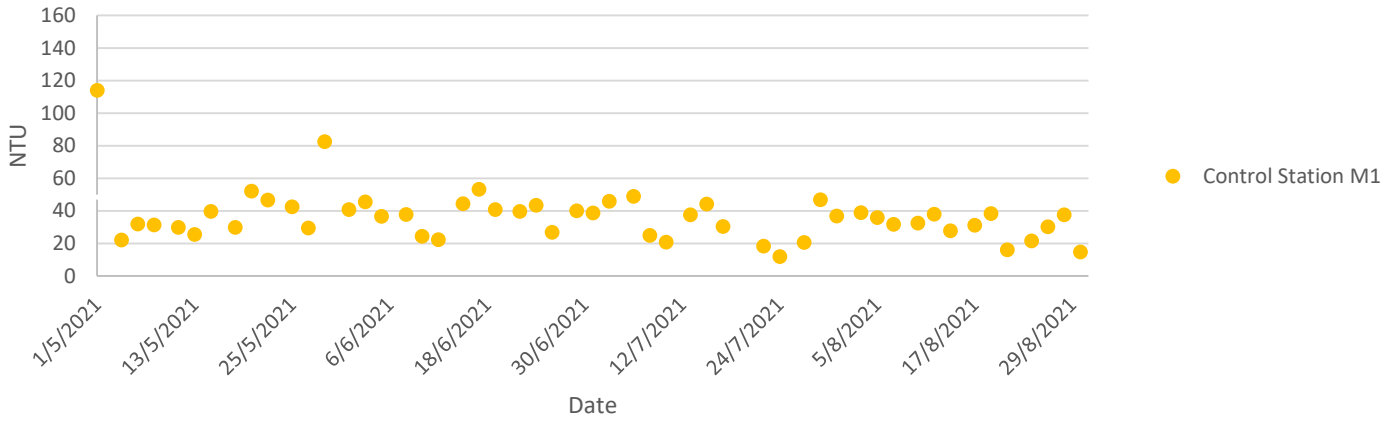
Dissolved Oxygen at Mid-Flood Tide



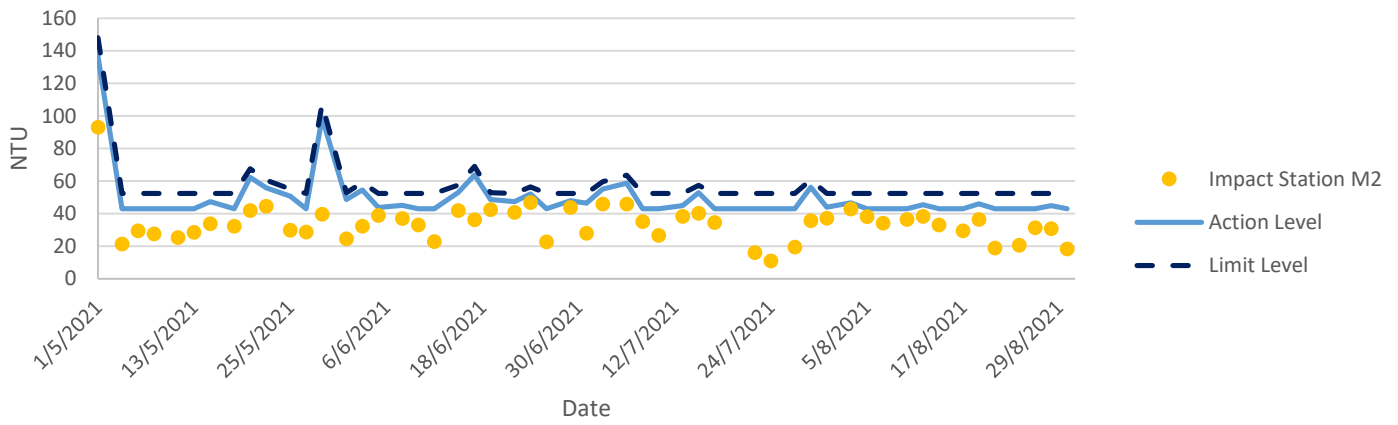
Dissolved Oxygen at Mid-Flood Tide



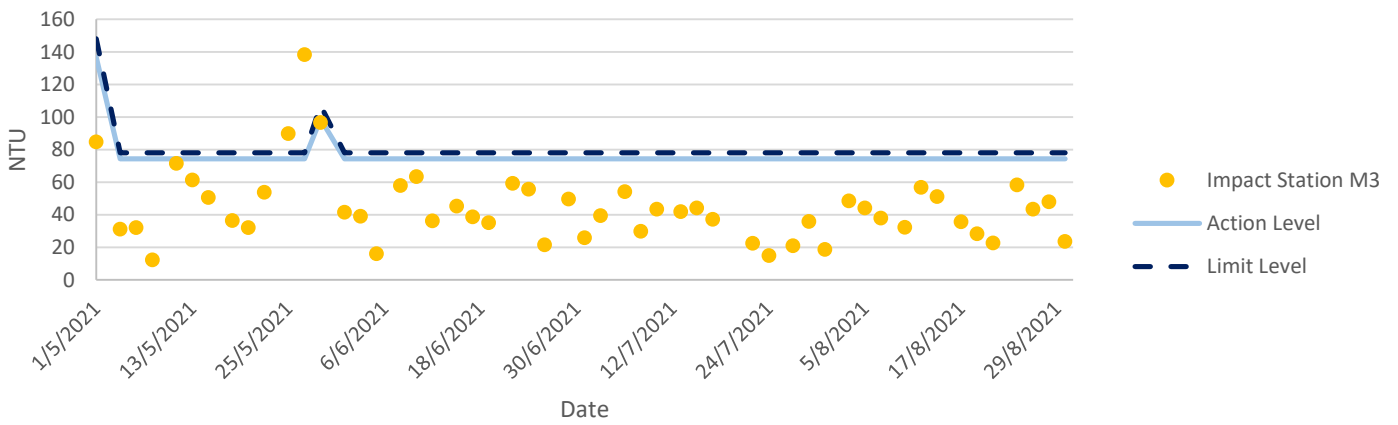
Turbidity at Mid-Flood Tide



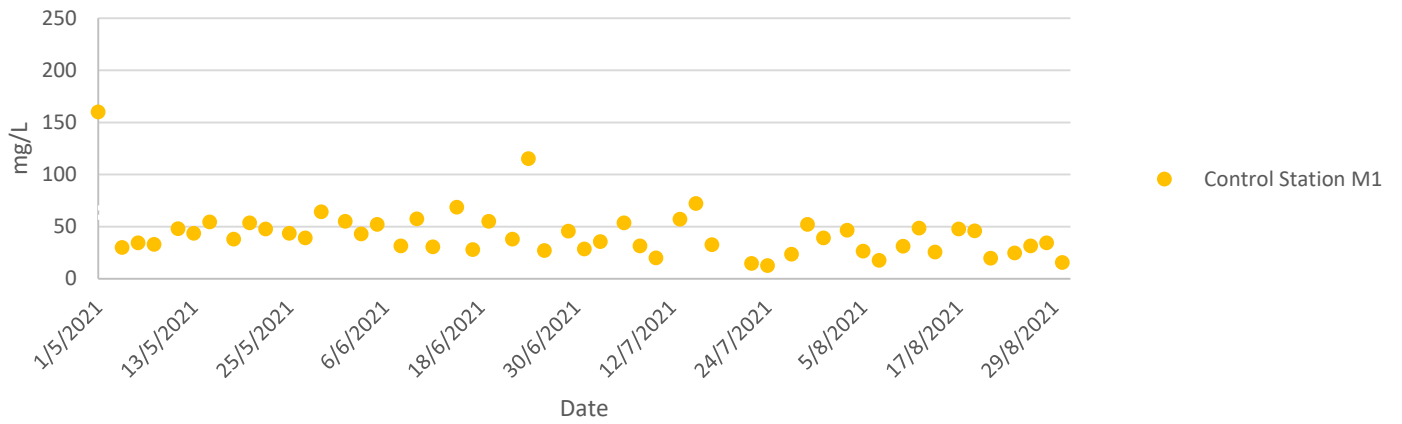
Turbidity at Mid-Flood Tide



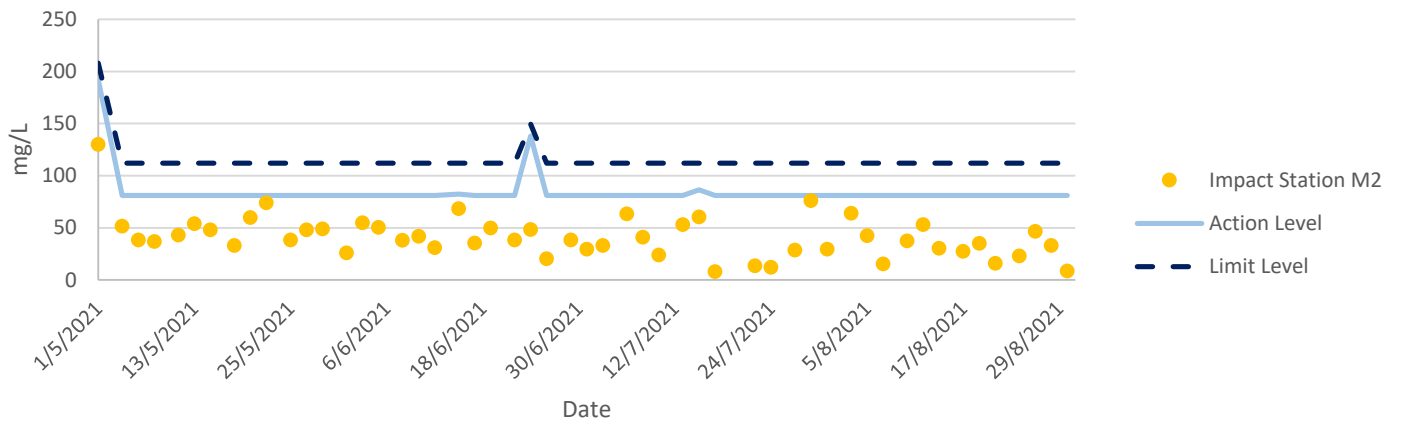
Turbidity at Mid-Flood Tide



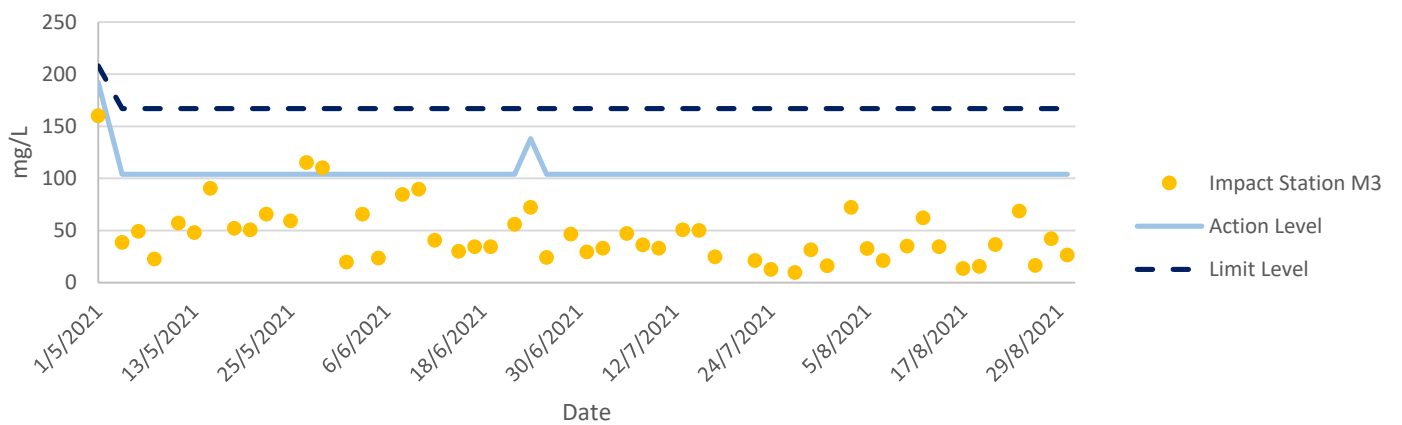
Total Suspended Solids at Mid-Flood Tide



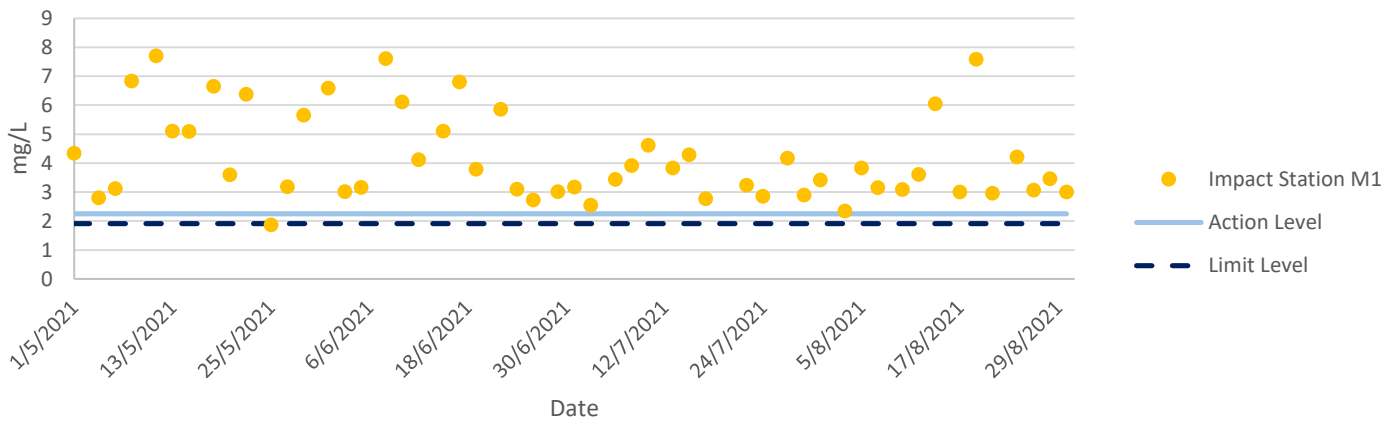
Total Suspended Solids at Mid-Flood Tide



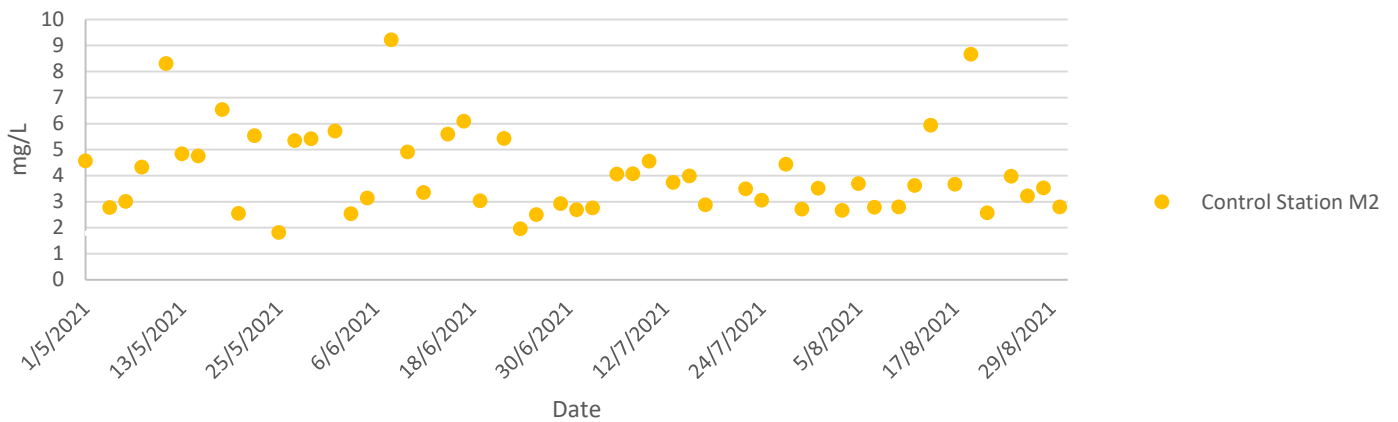
Total Suspended Solids at Mid-Flood Tide



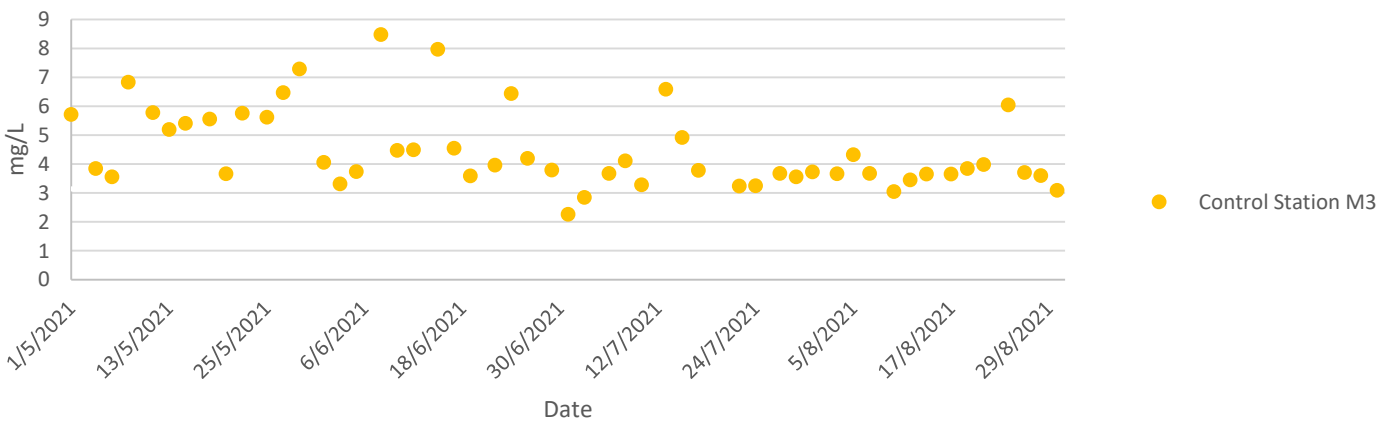
Dissolved Oxygen at Mid-Ebb Tide



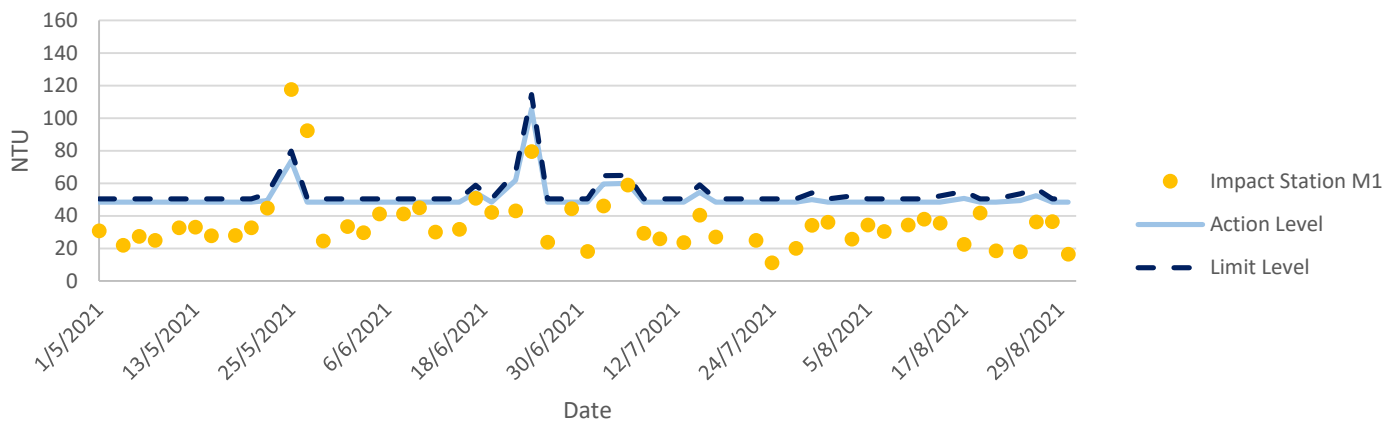
Dissolved Oxygen at Mid-Ebb Tide



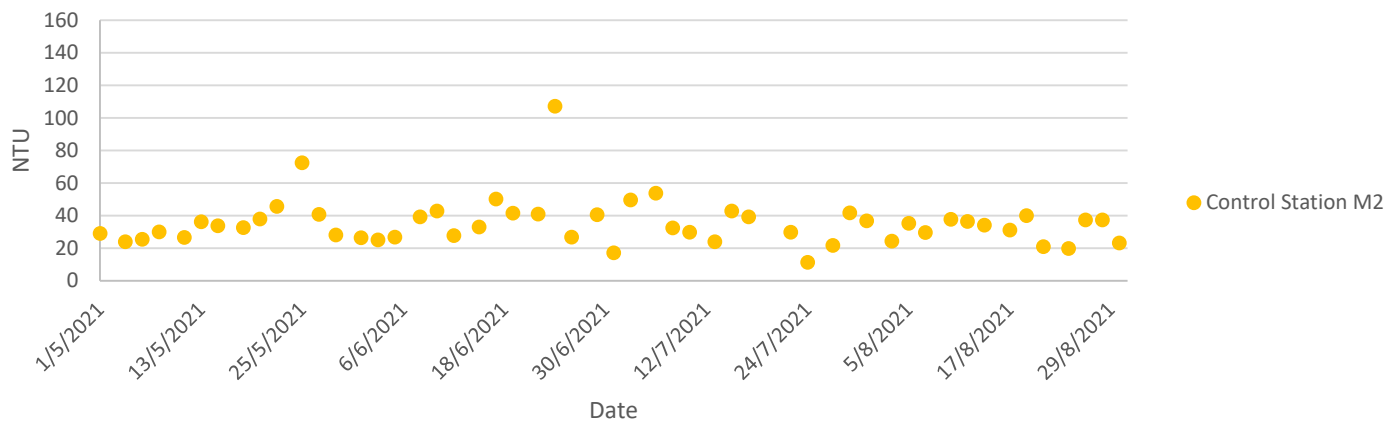
Dissolved Oxygen at Mid-Ebb Tide



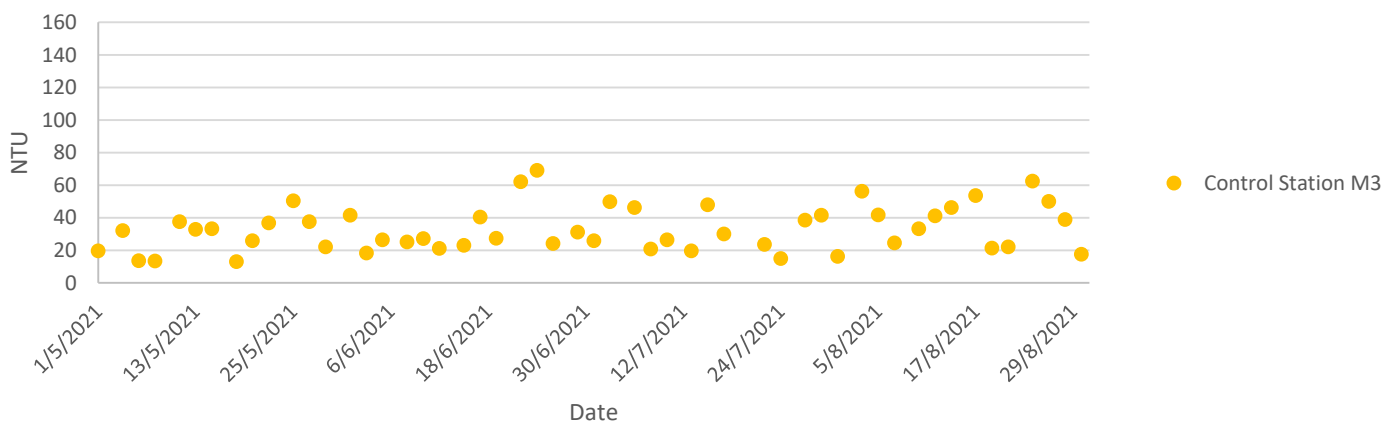
Turbidity at Mid-Ebb Tide



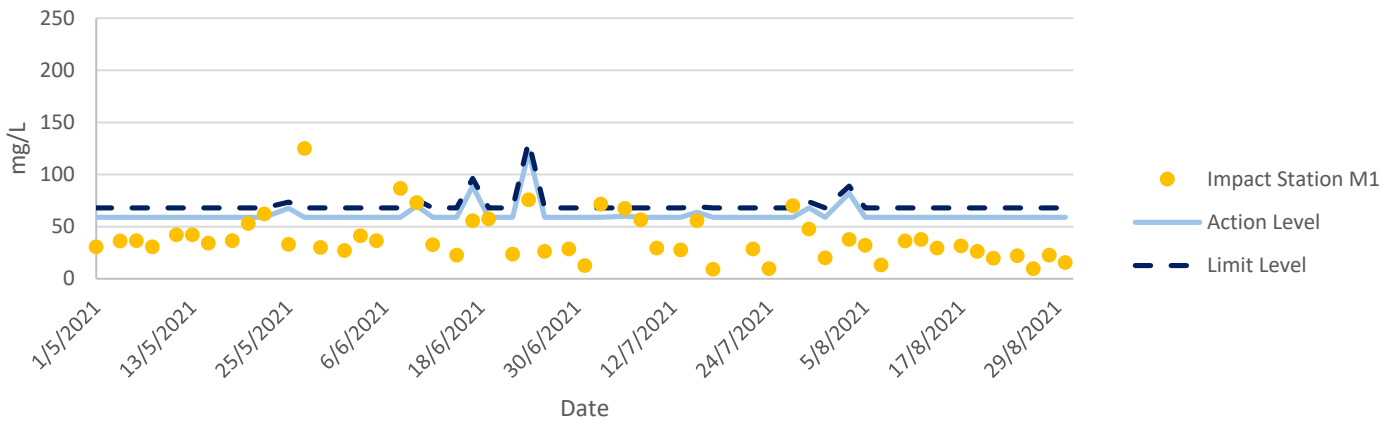
Turbidity at Mid-Ebb Tide



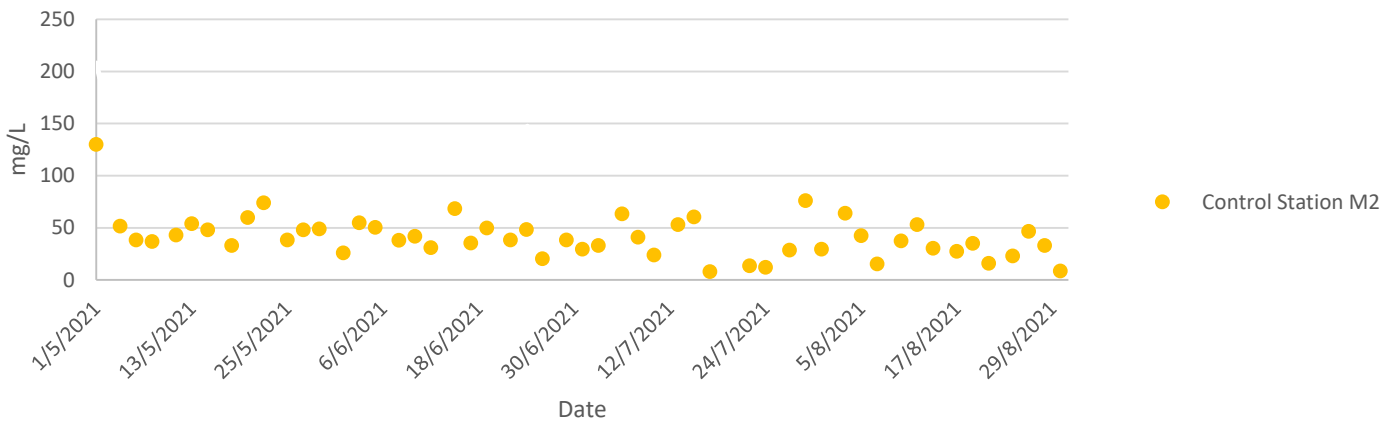
Turbidity at Mid-Ebb Tide



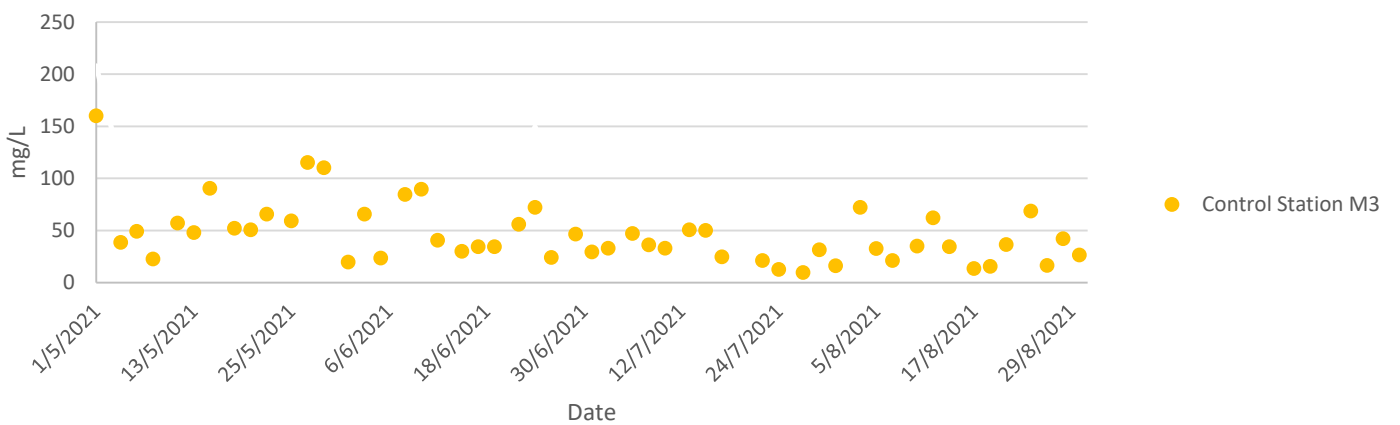
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Ecology Monitoring Results

Ecology Monitoring Results for

Contract No. SPW 07/2020

Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

Appendix F.1 Supplemental Discussion

F.1.1 Active Ardeid Night Roost

For the final night roost, a total of 16 Chinese Pond Heron individuals utilized the inside portions of the understory to canopy layers of the roosting substrate *Sonneratia apetala* and *S. caseolaris* at ANR1. The night roost (ANR2) located at the northeast of the Project boundary, as noted to be active last April 2021, was not used by the ardeids during the current monitoring period, similar with the May to July 2021 results. This was, however, not caused by the Project's construction activities as the recorded noise level ((46.3 dB(A)) near ANR2 was lower with respect to the action limit level of 65.5 dB(A) which more likely to cause behavioural responses of some kind by the ardeids (Wright et al. 2010). Furthermore, ardeid night roosts are known for their highly changeable locations and roosting population. These roosting locations can change in temporal basis and even change from day to day on a small scale. In Hong Kong, fluctuation of roosting population, abandonment or change in locations of roosting site without major nearby environmental change has been observed in roosts and locations (HKJC, 2005; Lee et al., 2004; MTRC, 2010).

F.1.2 Ecological Monitoring of Birds

F.1.2.1 Abundance

F.1.2.1.1 All Avifauna Species

Point Count

Among the different species recorded, the Chinese Pond Heron *Ardeola bacchus* was noted with the highest abundance (33 ind.), followed by Crested Myna *Acridotheres cristatellus* (24 ind.); and Eurasian Tree Sparrow *Passer montanus* (18 ind.). The high abundance of Chinese Pond Heron was due to its concurrent breeding period. On the other hand, the Common Kingfisher *Alcedo atthis*, Eastern Cattle Egret *Bubulcus coromandus*, and Oriental Magpie Robin *Copsychus saularis* was noted with the lowest abundance (only one ind.) during the reporting month.

Transect Walk

Among the different species recorded, the Little Egret *Egretta garzetta* was noted with the highest abundance (44 ind.), followed by Chinese Pond Heron and Black-winged Stilt *Himantopus himantopus* with both 23 recorded ind. each.

F.1.2.1.2 Avifauna Species of Conservation Importance

Point Count

Among the different species recorded, the Chinese Pond Heron was noted with the highest abundance (33 ind.), followed by Little Egret (15 ind.) and Common Redshank *Tringa totanus* (12 ind.). On the other hand, the Great Egret *Ardea alba* and Black Kite *Milvus migrans* were both noted with low abundances (2 ind. each).

Transect Walk

Among the different species recorded, the Little Egret *Egretta garzetta* was noted with the highest abundance (44 ind.), followed by Chinese Pond Heron and Black-winged Stilt *Himantopus himantopus* with both 23 recorded ind. each.

Appendix F.2 Ecological Bird Monitoring Results (17 August 2021)

Date (dd/mm/yyyy)	Daytime/Night time	Season	Area	Transect/Point Count	Point Count (Location)/Transect Impact	Common Name	Scientific Name	Abundance	Habitat	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 (v.2020-3) ⁷	Species of Conservation Importance	Wetland Dependent
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Black-browed Reed Warbler	<i>Acrocephalus bistrigiceps</i>	2	Pond-FLW	Common	PM	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Barn Swallow	<i>Hirundo rustica</i>	2	Pond-FLW	Abundant	PM,SV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	White Wagtail	<i>Motacilla alba</i>	2	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	5	Plantation-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Crested Myna	<i>Acridotheres cristatellus</i>	2	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Chinese Pond Heron	<i>Ardeola bacchus</i>	19	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Pied Kingfisher	<i>Ceryle rudis</i>	2	Pond-FLW	Uncommon	R	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Little Egret	<i>Egretta garzetta</i>	20	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	8	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Long-tailed Shrike	<i>Lanius schach</i>	2	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Eurasian Tree Sparrow	<i>Passer montanus</i>	9	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	6	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	4	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Spotted Dove	<i>Spilopelia chinensis</i>	14	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Great Egret	<i>Ardea alba</i>	15	Pond-FLW	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Black Kite	<i>Milvus migrans</i>	2	Pond-FLW	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	FLW	Black Drongo	<i>Dicrurus macrocercus</i>	4	Plantation-FLW	Common	SV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW1	White Wagtail	<i>Motacilla alba</i>	4	Pond-FLW	Common	PM,WV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	10	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Cinereous Tit	<i>Parus cinereus</i>	3	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	5	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW1	Spotted Dove	<i>Spilopelia chinensis</i>	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Black-browed Reed Warbler	<i>Acrocephalus bistrigiceps</i>	2	Pond-FLW	Common	PM	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Common Myna	<i>Acridotheres tristis</i>	3	Pond-FLW	Uncommon	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Little Egret	<i>Egretta garzetta</i>	1	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Eurasian Tree Sparrow	<i>Passer montanus</i>	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW2	Spotted Dove	<i>Spilopelia chinensis</i>	1	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW3	Crested Myna	<i>Acridotheres cristatellus</i>	3	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW3	Yellow-bellied Prinia	<i>Prinia flaviventris</i>	6	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW4	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N

17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW4	Spotted Dove	<i>Spilopelia chinensis</i>	2	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW5	Barn Swallow	<i>Hirundo rustica</i>	5	Pond-FLW	Abundant	PM,SV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW5	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Ruddy Kingfisher	<i>Halcyon coromanda</i>	2	Pond-FLW	Rare	PM	-	-	-	-	-	N	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Barn Swallow	<i>Hirundo rustica</i>	3	Pond-FLW	Abundant	PM,SV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Crested Myna	<i>Acridotheres cristatellus</i>	4	Pond-FLW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW6	Little Egret	<i>Egretta garzetta</i>	7	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Barn Swallow	<i>Hirundo rustica</i>	2	Pond-FLW	Abundant	PM,SV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Little Egret	<i>Egretta garzetta</i>	2	Pond-FLW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Point Count	FLW7	Spotted Dove	<i>Spilopelia chinensis</i>	3	Pond-FLW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Common Redshank	<i>Tringa totanus</i>	14	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Black-winged Stilt	<i>Himantopus himantopus</i>	3	Pond-NSW	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Common Sandpiper	<i>Actitis hypoleucos</i>	8	Modified Watercourse	Common	PM,WV	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Crested Myna	<i>Acridotheres cristatellus</i>	9	Modified Watercourse	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Little Egret	<i>Egretta garzetta</i>	9	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Oriental Magpie Robin	<i>Copsychus saularis</i>	2	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	6	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Eurasian Tree Sparrow	<i>Passer montanus</i>	2	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Spotted Dove	<i>Spilopelia chinensis</i>	3	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Japanese White-eye	<i>Zosterops japonicus</i>	3	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Chinese Pond Heron	<i>Ardeola bacchus</i>	4	Pond-NSW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Transect	NSW	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Common Kingfisher	<i>Alcedo atthis</i>	1	Pond-NSW	Common	PM,WV	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	White Wagtail	<i>Motacilla alba</i>	3	Pond-NSW	Common	PM,WV	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	6	Pond-NSW	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	5	Pond-NSW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Eurasian Tree Sparrow	<i>Passer montanus</i>	8	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Spotted Dove	<i>Spilopelia chinensis</i>	6	Pond-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	NSW1	Plain Prinia	<i>Prinia inornata</i>	3	Reedbed	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Black-winged Stilt	<i>Himantopus himantopus</i>	6	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Common Redshank	<i>Tringa totanus</i>	5	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Common Sandpiper	<i>Actitis hypoleucos</i>	6	Modified Watercourse	Common	PM,WV	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Eurasian Tree Sparrow	<i>Passer montanus</i>	5	Grassland	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Crested Myna	<i>Acridotheres cristatellus</i>	7	Modified Watercourse	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Long-tailed Shrike	<i>Lanius schach</i>	2	Modified Watercourse	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW1	Little Egret	<i>Egretta garzetta</i>	5	Pond-NSW	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Common Redshank	<i>Tringa totanus</i>	5	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Oriental Magpie Robin	<i>Copsychus saularis</i>	1	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW2	Masked Laughingthrush	<i>Garrulax perspicillatus</i>	4	Plantation-NSW	Abundant	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Black-winged Stilt	<i>Himantopus himantopus</i>	3	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Common Redshank	<i>Tringa totanus</i>	2	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Crested Myna	<i>Acridotheres cristatellus</i>	4	Mangrove	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Chinese Pond Heron	<i>Ardeola bacchus</i>	3	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Great Egret	<i>Ardea alba</i>	2	Modified Watercourse	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Black Kite	<i>Milvus migrans</i>	2	Pond-NSW	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	NSW	Point Count	SP/NSW3	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	1	Modified Watercourse	Common	R,PM	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Black-winged Stilt	<i>Himantopus himantopus</i>	20	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Common Redshank	<i>Tringa totanus</i>	7	Modified Watercourse	Common	PM	RC	-	-	LC	LC	Y	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Common Sandpiper	<i>Actitis hypoleucos</i>	6	Modified Watercourse	Common	PM,WV	-	-	-	LC	LC	N	Y
17/08/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Crested Myna	<i>Acridotheres cristatellus</i>	3	Modified Watercourse	Common	R	-	-	-	LC	LC	N	N
17/08/2021	Daytime	Wet Season	FLW	Transect	YLIE-CW	Little Egret	<i>Egretta garzetta</i>	15	Modified Watercourse	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

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.3.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (17 August 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	24	0.12972973	-2.042301995	-0.264947286	0.54110237
<i>Acridotheres tristis</i>	3	0.016216216	-4.121743536	-0.066839084	0.275493564
<i>Acrocephalus bistrigiceps</i>	2	0.010810811	-4.527208645	-0.048942796	0.22157425
<i>Actitis hypoleucos</i>	6	0.032432432	-3.428596356	-0.11119772	0.381252096
<i>Alcedo atthis</i>	1	0.005405405	-5.220355825	-0.02821814	0.147308729
<i>Ardea alba</i>	2	0.010810811	-4.527208645	-0.048942796	0.22157425
<i>Ardeola bacchus</i>	33	0.178378378	-1.723848264	-0.307497258	0.530078614
<i>Bubulcus coromandus</i>	1	0.005405405	-5.220355825	-0.02821814	0.147308729
<i>Copsychus saularis</i>	1	0.005405405	-5.220355825	-0.02821814	0.147308729
<i>Egretta garzetta</i>	15	0.081081081	-2.512305624	-0.203700456	0.511757801
<i>Garrulax perspicillatus</i>	4	0.021621622	-3.834061464	-0.082898626	0.317838428
<i>Halcyon coromanda</i>	2	0.010810811	-4.527208645	-0.048942796	0.22157425
<i>Himantopus himantopus</i>	9	0.048648649	-3.023131248	-0.14707125	0.444615691
<i>Hirundo rustica</i>	10	0.054054054	-2.917770732	-0.157717337	0.460183029
<i>Lanius schach</i>	2	0.010810811	-4.527208645	-0.048942796	0.22157425
<i>Milvus migrans</i>	2	0.010810811	-4.527208645	-0.048942796	0.22157425
<i>Motacilla alba</i>	7	0.037837838	-3.274445676	-0.123897944	0.405697089
<i>Parus cinereus</i>	3	0.016216216	-4.121743536	-0.066839084	0.275493564
<i>Passer montanus</i>	18	0.097297297	-2.329984067	-0.226701152	0.528210073
<i>Prinia flaviventris</i>	11	0.059459459	-2.822460552	-0.167821979	0.473670915
<i>Prinia inornata</i>	3	0.016216216	-4.121743536	-0.066839084	0.275493564
<i>Spilopelia chinensis</i>	14	0.075675676	-2.581298495	-0.195341508	0.50423474
<i>Tringa totanus</i>	12	0.064864865	-2.735449175	-0.177434541	0.485363169
Total	185	1	-83.88799496	-2.69611271	7.960282146
Richness	23				
SS	7.960282146				
SQ	7.269023743				
H	2.69611271				
S²_H	0.004057934				

Appendix F.3.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (17 August 2021)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	2	0.02739726	-3.597312261	-0.0985565	0.354538507
<i>Ardeola bacchus</i>	33	0.452054795	-0.79395188	-0.358909754	0.284957074
<i>Egretta garzetta</i>	15	0.205479452	-1.58240924	-0.325152584	0.514524453
<i>Himantopus himantopus</i>	9	0.123287671	-2.093234864	-0.258070052	0.54020123
<i>Milvus migrans</i>	2	0.02739726	-3.597312261	-0.0985565	0.354538507
<i>Tringa totanus</i>	12	0.164383562	-1.805552791	-0.296803199	0.535893844
Total	73	1	-13.4697733	-1.436048588	2.584653613
Richness	6				
SS	2.584653613				

SQ	2.062235548				
H	1.436048588				
S ² _H	0.007625543				

Appendix F.3.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (17 August 2021)

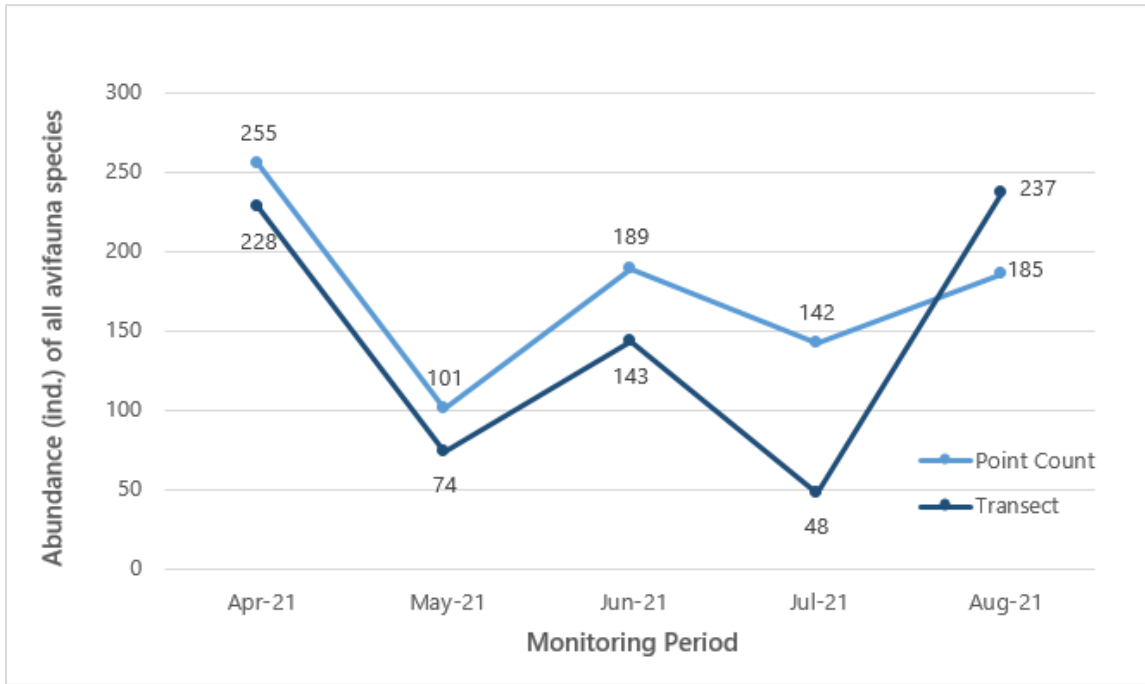
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Acridotheres cristatellus</i>	14	0.05907173	-2.829002812	-0.16711409	0.472766231
<i>Acrocephalus bistrigiceps</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Actitis hypoleucos</i>	14	0.05907173	-2.829002812	-0.16711409	0.472766231
<i>Ardea alba</i>	15	0.063291139	-2.76000994	-0.174684173	0.482130055
<i>Ardeola bacchus</i>	23	0.097046414	-2.332565925	-0.226367157	0.528016318
<i>Ceryle rudis</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Copsychus saularis</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Dicrurus macrocercus</i>	4	0.016877637	-4.08176578	-0.068890562	0.281195137
<i>Egretta garzetta</i>	44	0.185654008	-1.683870507	-0.312617309	0.526407067
<i>Garrulax perspicillatus</i>	14	0.05907173	-2.829002812	-0.16711409	0.472766231
<i>Gracupica nigricollis</i>	3	0.012658228	-4.369447852	-0.055309466	0.24167183
<i>Himantopus himantopus</i>	23	0.097046414	-2.332565925	-0.226367157	0.528016318
<i>Hirundo rustica</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Lanius schach</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Milvus migrans</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Motacilla alba</i>	2	0.008438819	-4.774912961	-0.040294624	0.192403323
<i>Passer montanus</i>	11	0.046413502	-3.070164868	-0.142497104	0.437489601
<i>Prinia flaviventris</i>	6	0.025316456	-3.676300672	-0.093070903	0.342156624
<i>Pycnonotus jocosus</i>	5	0.021097046	-3.858622229	-0.081405532	0.314113196
<i>Pycnonotus sinensis</i>	6	0.025316456	-3.676300672	-0.093070903	0.342156624
<i>Spilopelia chinensis</i>	17	0.071729958	-2.634846797	-0.18899745	0.497979325
<i>Tringa totanus</i>	21	0.088607595	-2.423537703	-0.214743847	0.52043981
<i>Zosterops japonicus</i>	3	0.012658228	-4.369447852	-0.055309466	0.24167183
Total	237	1	-83.18084588	-2.71673567	8.048565687
Richness	23				
SS	8.048565687				
SQ	7.380652701				
H	2.71673567				
S²_H	0.003014036				

Appendix F.3.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (17 August 2021)

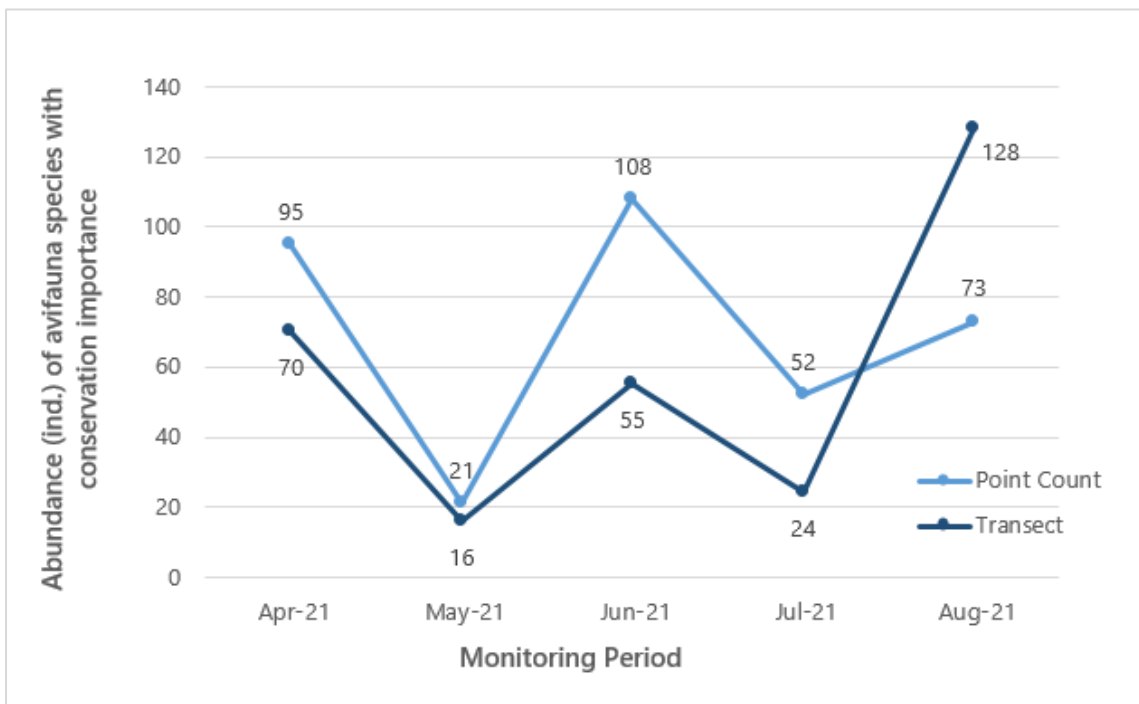
Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Ardea alba</i>	15	0.1171875	-2.143980063	-0.251247664	0.538669982
<i>Ardeola bacchus</i>	23	0.1796875	-1.716536048	-0.308440071	0.529448501
<i>Egretta garzetta</i>	44	0.34375	-1.06784063	-0.367070217	0.391972491
<i>Himantopus himantopus</i>	23	0.1796875	-1.716536048	-0.308440071	0.529448501
<i>Milvus migrans</i>	2	0.015625	-4.158883083	-0.064982548	0.27025482
<i>Tringa totanus</i>	21	0.1640625	-1.807507826	-0.296544253	0.536006058

Total	128	1	-12.6112837	-1.596724823	2.795800352
Richness	6				
SS	2.795800352				
SQ	2.549530161				
H	1.596724823				
S ² _H	0.002076574				

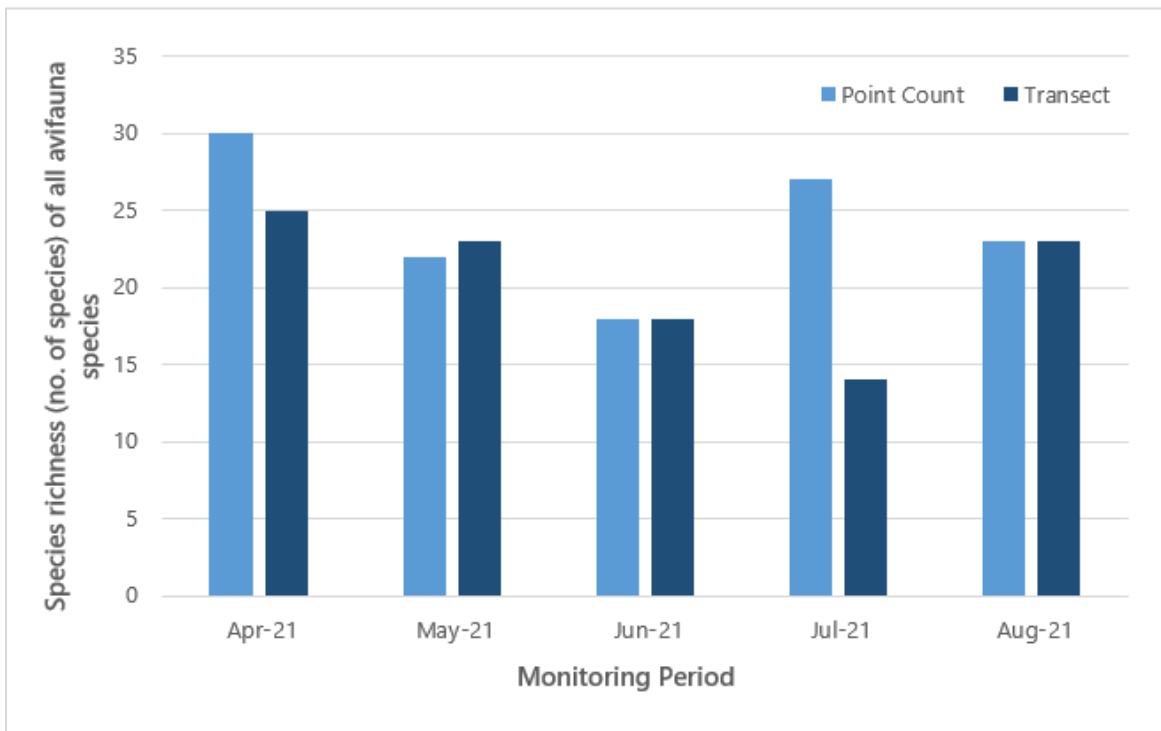
Appendix F.4.1 Abundance of all avifauna species throughout the monitoring period



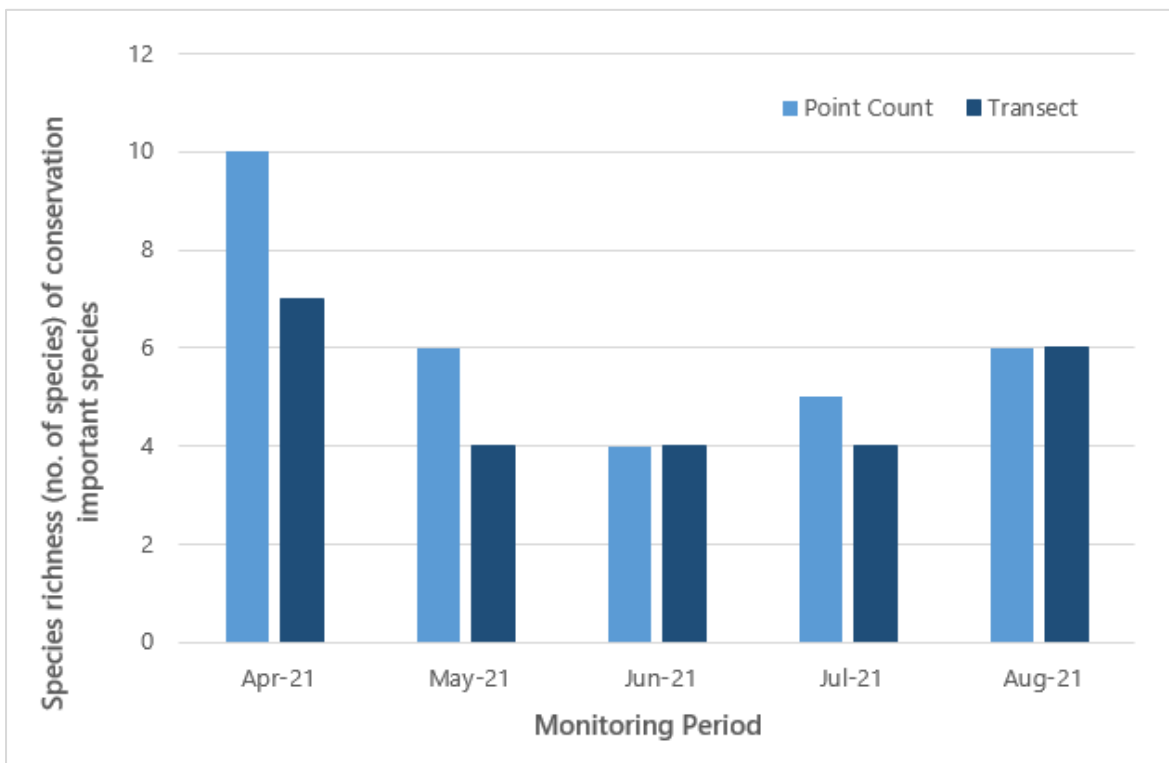
Appendix F.4.2 Abundance of avifauna species with conservation importance throughout the monitoring period



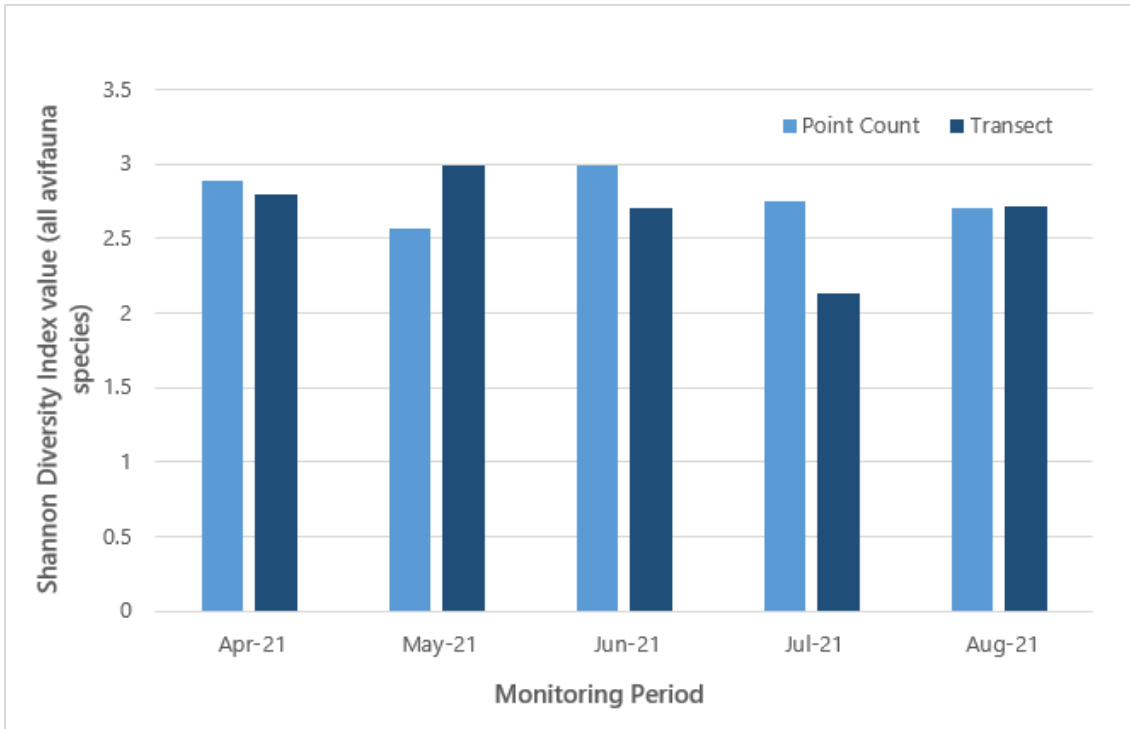
Appendix F.5.1 Species richness of all avifauna species throughout the monitoring period



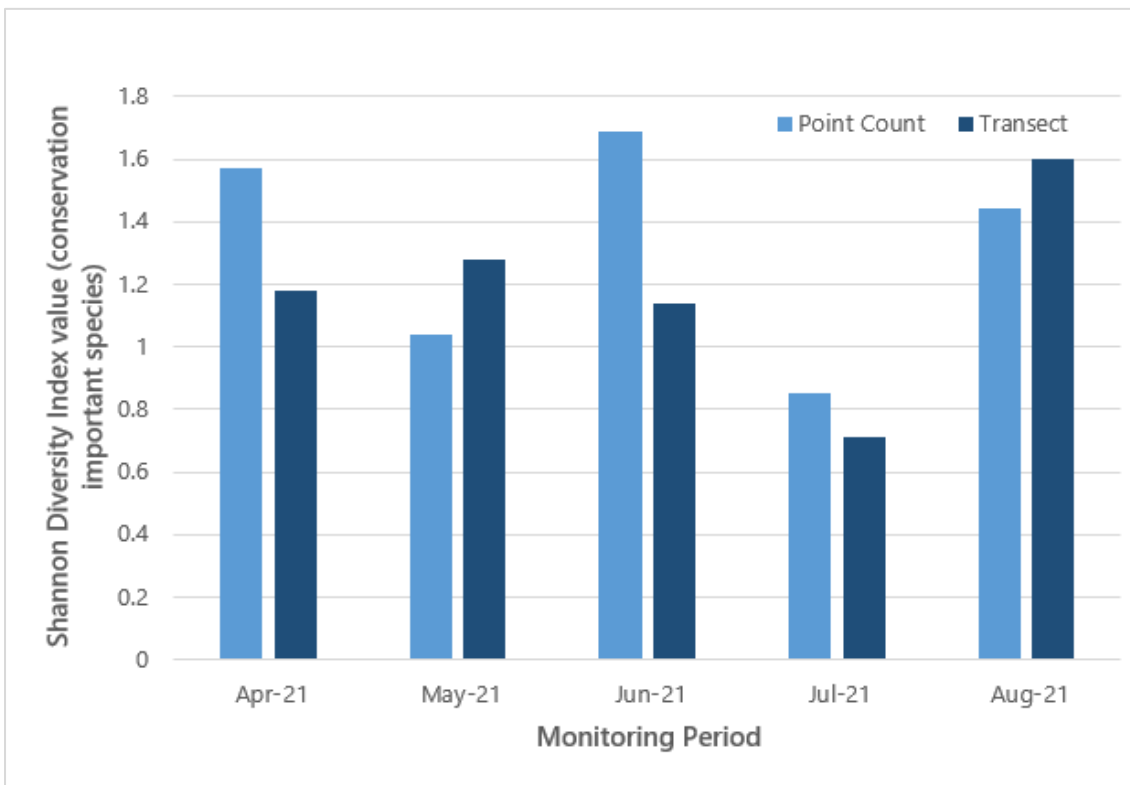
Appendix F.5.2 Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.6.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.6.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.7.1 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.7.1.1 Species diversity of all avifauna species – Point Count Method

Months	August 2017	August 2021
Total	160	185
N	26	23
H	2.80	2.70
S ² _H	0.005615	0.004058
t	1.05	
df	327	
Crit	1.97	
p	0.2954	
CI	0.149868	0.127404

Appendix F.7.1.2 Species diversity of all avifauna species – Transect Walk Method

Months	August 2017	August 2021
Total	140	237
N	30	23
H	2.87	2.72
S ² _H	0.00817827	0.003014
t	1.47	
df	243	
Crit	1.97	
p	0.1439	
CI	0.180867575	0.1098

Appendix F.7.1.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	August 2017	August 2021
Total	66	73
N	7	6
H	1.68	1.44

Months	August 2017	August 2021
S^2_H	0.0072	0.0076
t	1.96	
df	138.9351	
Crit	1.98	
p	0.0513	
CI	0.1697	0.1746