Air Quality Monitoring Results

1-hour TSP Monitoring Result for

Contract No. SPW 02/2023

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

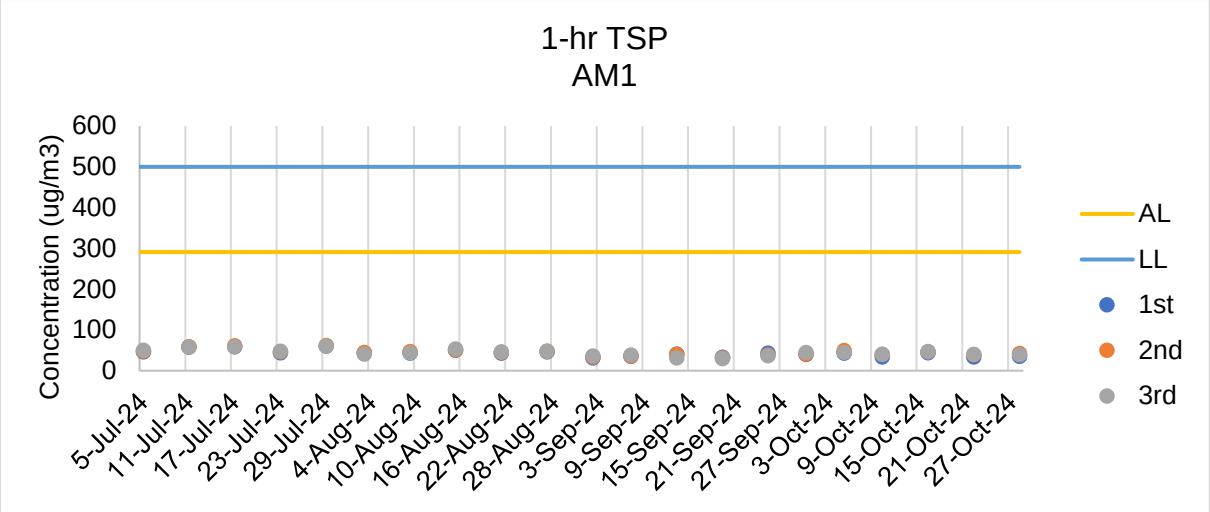
AM1 - Topfine Machinery (China) Co. Ltd.

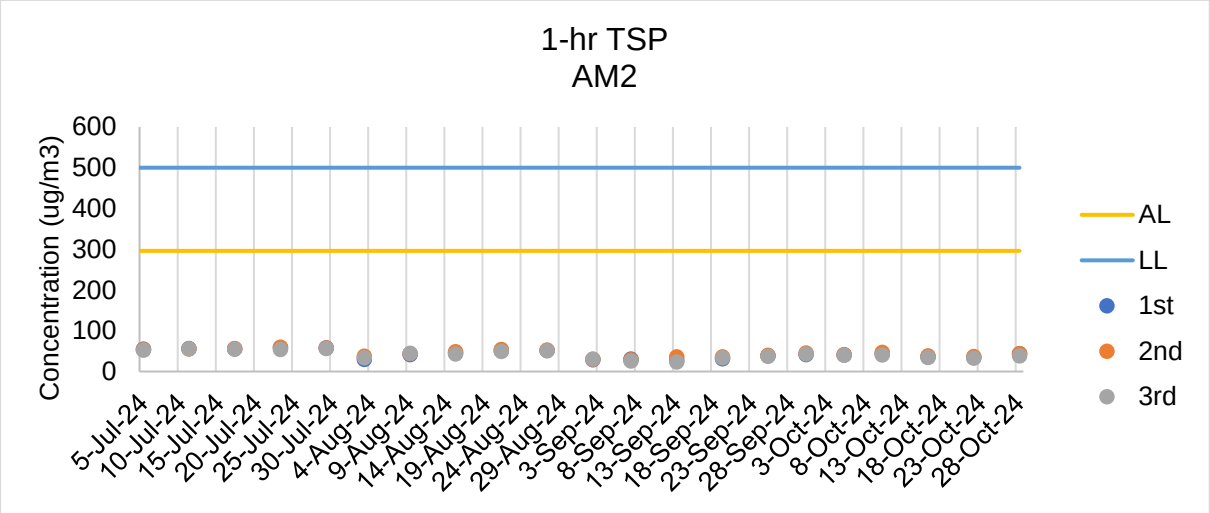
Date	Weather Condition	Start Time	1-hour TSP (µg/m³) 1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m^3)	Limit Level (ug/m^3)
5/10/2024	sunny	8:10	43	49	45	291	500
10/10/2024	sunny	8:21	34	40	40		
16/10/2024	sunny	8:08	44	46	47		
22/10/2024	sunny	8:30	34	39	40		
28/10/2024	sunny	8:22	35	42	39		
		Min	34				
		Max	49				
		Average	41				

AM2 - Squatter house at the west of Yuen Long STW

Date	Weather Condition	Start Time	1-hour TSP (µg/m³) 1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m^3)	Limit Level (ug/m^3)
5/10/2024	sunny	13:11	41	42	40	296	500
10/10/2024	sunny	13:10	44	47	41		
16/10/2024	sunny	13:22	36	39	35		
22/10/2024	sunny	13:00	35	37	33		
28/10/2024	sunny	13:44	44	44	39		
		Min	33				
		Max	47				
		Average	40				

Note:
Underline: Exceedance of Action Level
Underline and Bold: Exceedance of Limit Level





Air Quality Monitoring Results

Noise Monitoring Results

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

CM1 - Squatter house to the north of YLSTW

Date	Start Time	L_{eq} 30min dB(A)	L_{10} dB(A)	L_{90} dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
10/10/2024	10:24	59.1	60.3	57.2	1.0	sunny	75
16/10/2024	10:25	61.2	63.2	58.4	0.6	sunny	75
22/10/2024	10:30	62.3	63.6	60.3	1.8	sunny	75
28/10/2024	10:29	60.2	61.6	59.3	1.4	sunny	75
	Max	62.3					
	Min	59.1					

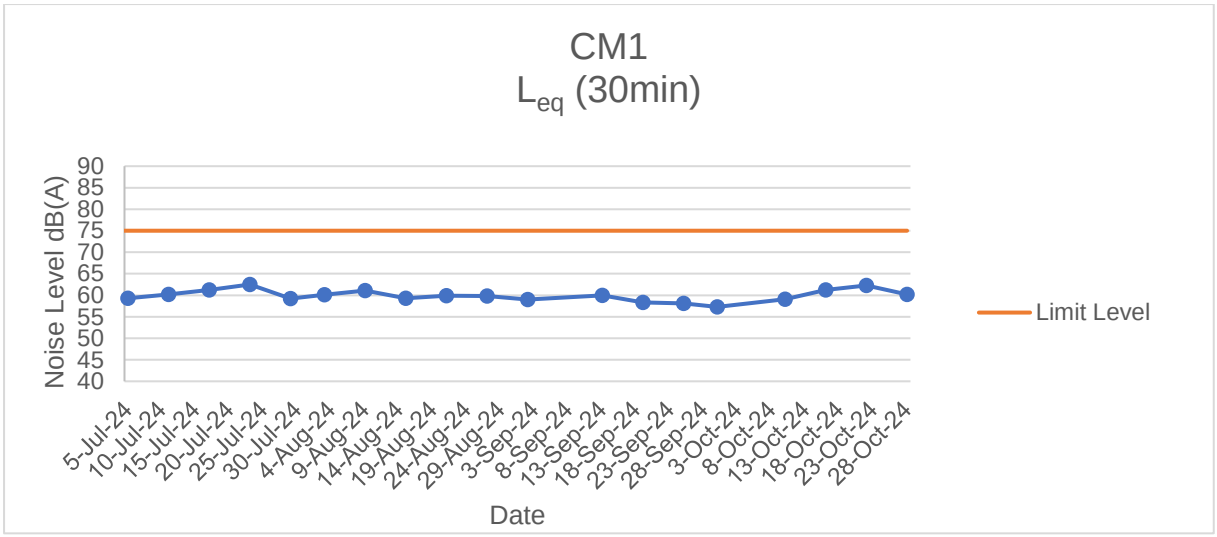
CM2 - Squatter house to the west of YLSTW

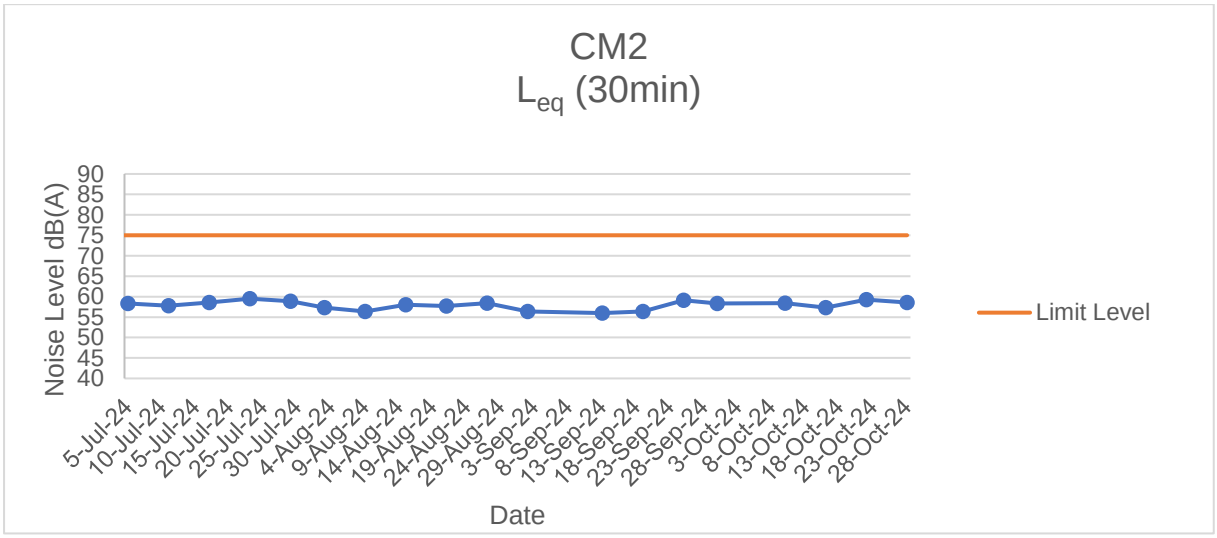
Date	Start Time	L_{eq} 30min dB(A)	L_{10} dB(A)	L_{90} dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
10/10/2024	13:10	58.4	60.3	57.4	1.2	sunny	75
16/10/2024	13:22	57.3	59.4	56.4	0.4	sunny	75
22/10/2024	13:00	59.3	61.2	58.4	1.7	sunny	75
28/10/2024	13:44	58.6	59.3	56.4	1.3	sunny	75
	Max	59.3					
	Min	57.3					

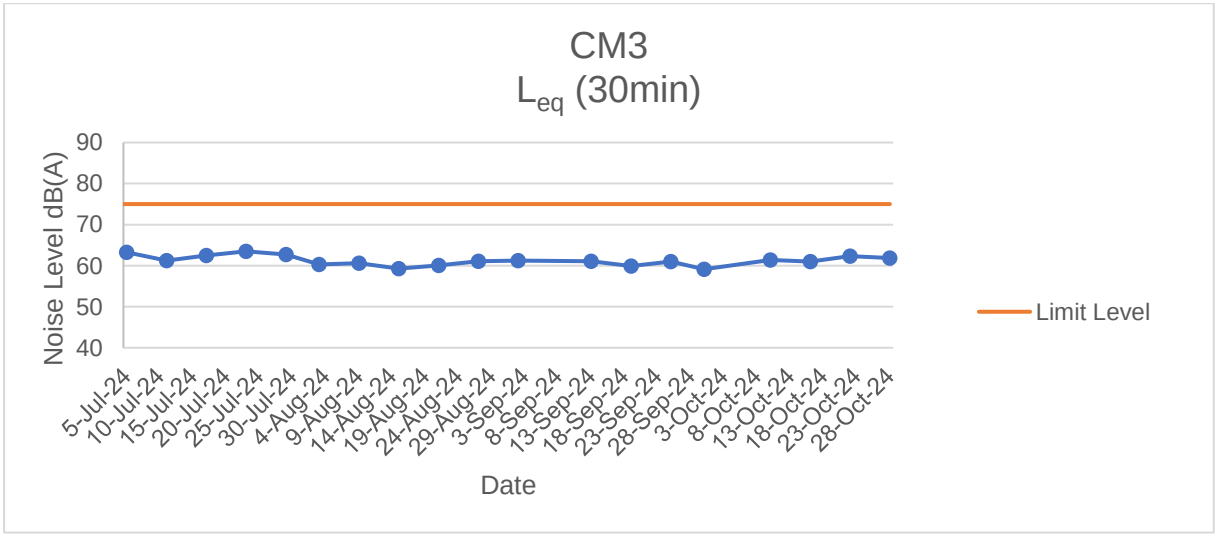
CM3 - Squatter house to the east of YLSTW

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)
10/10/2024	8:52	61.4	63.2	58.3	1.1	sunny	75
16/10/2024	8:31	61.0	62.4	57.4	0.0	sunny	75
22/10/2024	8:54	62.3	64.2	60.4	1.0	sunny	75
28/10/2024	8:48	61.9	62.6	59.4	1.9	sunny	75
	Max	62.3					
	Min	61.0					

Note:
CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).
No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.







Noise Monitoring Results

Water Quality Monitoring Results

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	3/10/2024	Mid-Flood	Cloudy	Low	13:29	2.5	M	1.25	1	0.087	186.2	7.15	7.15	3.34	3.34	28.9	28.90	36.4	36.90	2.74	2.78	19.71	19.51	14	13
M1	3/10/2024	Mid-Flood	Cloudy	Low	13:29	2.5	M	1.25	2			7.15		3.34		28.9		37.4		2.81		19.31		11	
M2	3/10/2024	Mid-Flood	Cloudy	Low	13:58	2.1	M	1.05	1	0.084	180.659	7.16	7.17	3.30	3.33	28.9	28.95	35.8	36.40	2.69	2.74	21.08	21.065	14	15
M2	3/10/2024	Mid-Flood	Cloudy	Low	13:58	2.1	M	1.05	2			7.17		3.35		29		37.0		2.78		21.05		16	
M3	3/10/2024	Mid-Flood	Cloudy	Low	14:05	1.9	M	0.95	1	0.074	174.037	7.16	7.15	3.63	3.67	28.9	28.90	48.4	49.05	3.64	3.69	35.44	35.23	10	12
M3	3/10/2024	Mid-Flood	Cloudy	Low	14:05	1.9	M	0.95	2			7.14		3.71		28.9		49.7		3.74		35.02		14	
M1	3/10/2024	Mid-Ebb	Cloudy	Low	8:33	2.5	M	1.25	1	0.067	310.572	7.16	7.16	3.49	3.54	28.7	28.75	34.2	34.20	2.57	2.57	22.18	22.23	9	12
M1	3/10/2024	Mid-Ebb	Cloudy	Low	8:33	2.5	M	1.25	2			7.15		3.58		28.8		34.2		2.57		22.28		15	
M2	3/10/2024	Mid-Ebb	Cloudy	Low	8:00	2	M	1.00	1	0.079	306.281	7.2	7.19	3.55	3.58	28.7	28.70	36.2	36.60	2.72	2.75	21.87	22.01	14	12
M2	3/10/2024	Mid-Ebb	Cloudy	Low	8:01	2	M	1.00	2			7.18		3.6		28.7		37.0		2.78		22.15		10	
M3	3/10/2024	Mid-Ebb	Cloudy	Low	8:48	2	M	1.00	1	0.077	336.124	7.13	7.13	3.72	3.76	28.7	28.75	47.2	46.35	3.55	3.49	31.08	31.105	17	18
M3	3/10/2024	Mid-Ebb	Cloudy	Low	8:48	2	M	1.00	2			7.12		3.8		28.8		45.5		3.42		31.13		18	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	5/10/2024	Mid-Flood	Sunny	Low	14:30	2.7	M	1.35	1	0.076	184.119	7.2	7.19	2.48	2.51	28.1	28.15	38.3	38.55	2.88	2.90	25.66	25.62	81	74
M1	5/10/2024	Mid-Flood	Sunny	Low	14:31	2.7	M	1.35	2			7.18		2.54		28.2		38.8		2.92		25.58		67	
M2	5/10/2024	Mid-Flood	Sunny	Low	14:52	2.2	M	1.10	1	0.088	169.774	7.22	7.21	2.47	2.51	28.1	28.10	40.7	40.45	3.06	3.04	26.73	26.705	79	69
M2	5/10/2024	Mid-Flood	Sunny	Low	14:52	2.2	M	1.10	2			7.2		2.54		28.1		40.2		3.02		26.68		58	
M3	5/10/2024	Mid-Flood	Sunny	Low	15:03	2.1	M	1.05	1	0.093	175.64	7.23	7.24	2.91	2.90	28.1	28.10	50.3	50.15	3.78	3.77	31.55	31.645	67	74
M3	5/10/2024	Mid-Flood	Sunny	Low	15:03	2.1	M	1.05	2			7.25		2.88		28.1		50.0		3.76		31.74		81	
M1	5/10/2024	Mid-Ebb	Sunny	Low	8:59	2.6	M	1.30	1	0.074	344.173	7.21	7.21	2.35	2.35	28.0	28.05	39.8	39.90	2.99	3.00	24.55	24.53	54	61
M1	5/10/2024	Mid-Ebb	Sunny	Low	8:59	2.6	M	1.30	2			7.2		2.35		28.1		40.0		3.01		24.51		68	
M2	5/10/2024	Mid-Ebb	Sunny	Low	8:34	2.4	M	1.20	1	0.061	342.322	7.24	7.25	2.34	2.31	28.0	28.00	40.8	40.30	3.07	3.03	25.83	25.67	55	66
M2	5/10/2024	Mid-Ebb	Sunny	Low	8:34	2.4	M	1.20	2			7.25		2.27		28.0		39.8		2.99		25.51		77	
M3	5/10/2024	Mid-Ebb	Sunny	Low	9:11	2.1	M	1.05	1	0.064	332.358	7.26	7.25	2.88	2.90	28.0	28.00	52.5	52.70	3.95	3.97	32.43	32.455	53	62
M3	5/10/2024	Mid-Ebb	Sunny	Low	9:11	2.1	M	1.05	2			7.24		2.91		28.0		52.9		3.98		32.48		71	

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	89	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	76.8	83.2

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	8/10/2024	Mid-Flood	Sunny	Low	16:21	2.7	M	1.35	1	0.078	161.822	7.08	7.09	2.49	2.52	27.8	27.80	35.0	35.05	2.63	2.64	18.55	18.71	30	31
M1	8/10/2024	Mid-Flood	Sunny	Low	16:21	2.7	M	1.35	2			7.1		2.54		27.8		35.1		2.64		18.87		31	
M2	8/10/2024	Mid-Flood	Sunny	Low	16:54	2.4	M	1.20	1	0.086	185.592	7.11	7.11	2.33	2.29	27.8	27.80	37.1	36.55	2.79	2.75	17.48	17.44	34	32
M2	8/10/2024	Mid-Flood	Sunny	Low	16:55	2.4	M	1.20	2			7.1		2.25		27.8		36.0		2.71		17.4		30	
M3	8/10/2024	Mid-Flood	Sunny	Low	17:02	2.1	M	1.05	1	0.092	187.328	7.13	7.12	2.33	2.36	27.8	27.85	51.6	51.20	3.88	3.85	31.82	31.96	22	25
M3	8/10/2024	Mid-Flood	Sunny	Low	17:02	2.1	M	1.05	2			7.11		2.38		27.9		50.8		3.82		32.1		27	
M1	8/10/2024	Mid-Ebb	Sunny	Low	11:37	2.7	M	1.35	1	0.08	316.481	7.09	7.08	2.36	2.32	27.6	27.60	34.3	33.30	2.58	2.51	18.90	18.775	28	27
M1	8/10/2024	Mid-Ebb	Sunny	Low	11:37	2.7	M	1.35	2			7.07		2.27		27.6		32.3		2.43		18.65		25	
M2	8/10/2024	Mid-Ebb	Sunny	Low	11:07	2.3	M	1.15	1	0.075	338.756	7.11	7.11	2.43	2.45	27.6	27.65	36.3	36.45	2.73	2.74	19.08	18.885	34	37
M2	8/10/2024	Mid-Ebb	Sunny	Low	11:08	2.3	M	1.15	2			7.11		2.46		27.7		36.6		2.75		18.69		39	
M3	8/10/2024	Mid-Ebb	Sunny	Low	11:48	2.1	M	1.05	1	0.07	332.985	7.14	7.14	2.30	2.31	27.6	27.60	49.1	49.30	3.69	3.71	30.75	30.82	36	38
M3	8/10/2024	Mid-Ebb	Sunny	Low	11:49	2.1	M	1.05	2			7.14		2.31		27.6		49.5		3.72		30.89		40	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	10/10/2024	Mid-Flood	Sunny	Low	8:55	2.6	M	1.30	1	0.077	175.523	7.12	7.12	3.32	3.31	28.6	28.65	38.6	37.60	2.9	2.83	14.36	14.275	50	35
M1	10/10/2024	Mid-Flood	Sunny	Low	8:56	2.6	M	1.30	2			7.12		3.3		28.7		36.6		2.75		14.19		20	
M2	10/10/2024	Mid-Flood	Sunny	Low	9:31	2.2	M	1.10	1	0.08	179.533	7.11	7.11	3.35	3.36	28.6	28.65	33.9	33.45	2.55	2.52	15.55	15.675	30	27
M2	10/10/2024	Mid-Flood	Sunny	Low	9:31	2.2	M	1.10	2			7.1		3.36		28.7		33.0		2.48		15.8		24	
M3	10/10/2024	Mid-Flood	Sunny	Low	9:45	2	M	1.00	1	0.076	180.509	7.14	7.14	3.49	3.49	28.6	28.60	48.5	47.65	3.65	3.59	28.44	28.345	27	32
M3	10/10/2024	Mid-Flood	Sunny	Low	9:45	2	M	1.00	2			7.14		3.48		28.6		46.8		3.52		28.25		37	
M1	10/10/2024	Mid-Ebb	Sunny	Low	17:07	2.4	M	1.20	1	0.077	316.205	7.11	7.12	3.18	3.21	28.6	28.60	38.3	37.65	2.88	2.83	15.69	15.505	30	29
M1	10/10/2024	Mid-Ebb	Sunny	Low	17:08	2.4	M	1.20	2			7.12		3.23		28.6		37.0		2.78		15.32		28	
M2	10/10/2024	Mid-Ebb	Sunny	Low	16:40	2.1	M	1.05	1	0.076	333.914	7.19	7.18	3.25	3.27	28.6	28.60	39.4	39.40	2.96	2.96	16.61	16.585	27	29
M2	10/10/2024	Mid-Ebb	Sunny	Low	16:40	2.1	M	1.05	2			7.17		3.29		28.6		39.4		2.96		16.56		31	
M3	10/10/2024	Mid-Ebb	Sunny	Low	17:22	1.9	M	0.95	1	0.063	318.083	7.2	7.19	3.46	3.49	28.6	28.60	50.1	50.25	3.77	3.78	29.74	29.705	28	27
M3	10/10/2024	Mid-Ebb	Sunny	Low	17:23	1.9	M	0.95	2			7.18		3.51		28.6		50.4		3.79		29.67		26	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	12/10/2024	Mid-Flood	Sunny	Low	11:25	2.6	M	1.30	1	0.076	183.503	7.13	7.14	3.58	3.54	27.8	27.80	37.0	37.00	2.78	2.78	19.99	20.17	8	8
M1	12/10/2024	Mid-Flood	Sunny	Low	11:26	2.6	M	1.30	2			7.15		3.49		27.8		37.0		2.78		20.35		7	
M2	12/10/2024	Mid-Flood	Sunny	Low	11:49	2.2	M	1.10	1	0.095	164.134	7.18	7.19	4.05	4.08	27.8	27.80	39.1	38.55	2.94	2.90	20.58	20.56	7	10
M2	12/10/2024	Mid-Flood	Sunny	Low	11:51	2.2	M	1.10	2			7.2		4.1		27.8		38.0		2.86		20.54		12	
M3	12/10/2024	Mid-Flood	Sunny	Low	12:04	1.9	M	0.95	1	0.092	190.798	7.12	7.12	4.48	4.49	27.8	27.80	53.1	52.10	3.99	3.92	31.92	31.83	6	9
M3	12/10/2024	Mid-Flood	Sunny	Low	12:04	1.9	M	0.95	2			7.11		4.49		27.8		51.1		3.84		31.74		11	
M1	12/10/2024	Mid-Ebb	Sunny	Low	16:55	2.5	M	1.25	1	0.063	305.993	7.16	7.17	3.66	3.63	27.5	27.50	40.6	40.40	3.05	3.04	20.55	20.46	10	16
M1	12/10/2024	Mid-Ebb	Sunny	Low	16:55	2.5	M	1.25	2			7.17		3.6		27.5		40.2		3.02		20.37		21	
M2	12/10/2024	Mid-Ebb	Sunny	Low	16:27	2	M	1.00	1	0.08	329.704	7.11	7.12	3.85	3.83	27.5	27.55	41.4	41.45	3.11	3.12	21.44	21.515	13	14
M2	12/10/2024	Mid-Ebb	Sunny	Low	16:28	2	M	1.00	2			7.13		3.81		27.6		41.5		3.12		21.59		15	
M3	12/10/2024	Mid-Ebb	Sunny	Low	17:06	1.9	M	0.95	1	0.076	316.52	7.14	7.15	4.46	4.43	27.5	27.55	54.4	54.40	4.09	4.09	32.26	32.31	18	19
M3	12/10/2024	Mid-Ebb	Sunny	Low	17:07	1.9	M	0.95	2			7.16		4.39		27.6		54.4		4.09		32.36		20	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	15/10/2024	Mid-Flood	Sunny	Low	11:24	2.5	M	1.25	1	0.084	176.993	7.06	7.07	2.69	2.72	27.2	27.25	37.2	36.40	2.8	2.74	18.55	18.355	35	33
M1	15/10/2024	Mid-Flood	Sunny	Low	11:25	2.5	M	1.25	2			7.08		2.75		27.3		35.6		2.68		18.16		30	
M2	15/10/2024	Mid-Flood	Sunny	Low	11:49	2.1	M	1.05	1	0.085	174.148	7.08	7.09	2.71	2.69	27.2	27.25	34.8	35.50	2.62	2.67	19.13	19.205	15	16
M2	15/10/2024	Mid-Flood	Sunny	Low	11:49	2.1	M	1.05	2			7.09		2.67		27.3		36.2		2.72		19.28		16	
M3	15/10/2024	Mid-Flood	Sunny	Low	12:04	1.9	M	0.95	1	0.094	173.786	7.11	7.11	3.37	3.39	27.2	27.20	47.3	47.40	3.56	3.57	30.59	30.525	15	16
M3	15/10/2024	Mid-Flood	Sunny	Low	12:05	1.9	M	0.95	2			7.1		3.41		27.2		47.5		3.57		30.46		16	
M1	15/10/2024	Mid-Ebb	Sunny	Low	18:35	2.5	M	1.25	1	0.075	321.609	7.02	7.02	2.46	2.50	27.0	27.05	33.5	32.80	2.52	2.47	19.71	19.885	15	26
M1	15/10/2024	Mid-Ebb	Sunny	Low	18:35	2.5	M	1.25	2			7.02		2.54		27.1		32.1		2.41		20.06		36	
M2	15/10/2024	Mid-Ebb	Sunny	Low	18:04	2.1	M	1.05	1	0.071	312.113	7.09	7.08	2.42	2.46	27.0	27.05	36.3	36.25	2.73	2.73	20.54	20.515	32	35
M2	15/10/2024	Mid-Ebb	Sunny	Low	18:04	2.1	M	1.05	2			7.07		2.49		27.1		36.2		2.72		20.49		38	
M3	15/10/2024	Mid-Ebb	Sunny	Low	18:53	2	M	1.00	1	0.077	311.142	7.13	7.13	3.29	3.30	27.0	27.05	51.6	50.75	3.88	3.82	31.18	31.115	42	45
M3	15/10/2024	Mid-Ebb	Sunny	Low	18:53	2	M	1.00	2			7.13		3.31		27.1		49.9		3.75		31.05		48	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	17/10/2024	Mid-Flood	Sunny	Low	12:53	2.6	M	1.30	1	0.091	172.475	7.16	7.16	2.44	2.40	28.5	28.55	38.3	37.45	2.88	2.82	25.66	25.72	19	19
M1	17/10/2024	Mid-Flood	Sunny	Low	12:53	2.6	M	1.30	2			7.15		2.36		28.6		36.6		2.75		25.78		19	
M2	17/10/2024	Mid-Flood	Sunny	Low	13:36	2.2	M	1.10	1	0.093	186.056	7.14	7.14	2.32	2.29	28.5	28.55	39.5	39.95	2.97	3.01	25.80	25.93	36	28
M2	17/10/2024	Mid-Flood	Sunny	Low	13:36	2.2	M	1.10	2			7.13		2.25		28.6		40.4		3.04		26.06		20	
M3	17/10/2024	Mid-Flood	Sunny	Low	13:49	1.8	M	0.90	1	0.082	183.688	7.2	7.21	2.99	3.03	28.5	28.50	48.9	48.25	3.68	3.63	34.54	34.405	30	30
M3	17/10/2024	Mid-Flood	Sunny	Low	13:50	1.8	M	0.90	2			7.21		3.07		28.5		47.6		3.58		34.27		29	
M1	17/10/2024	Mid-Ebb	Sunny	Low	9:05	2.4	M	1.20	1	0.078	328.798	7.18	7.18	2.30	2.34	28.8	28.85	40.2	40.00	3.02	3.01	22.72	22.67	41	46
M1	17/10/2024	Mid-Ebb	Sunny	Low	9:05	2.4	M	1.20	2			7.17		2.37		28.9		39.8		2.99		22.62		50	
M2	17/10/2024	Mid-Ebb	Sunny	Low	8:38	2.1	M	1.05	1	0.06	306.672	7.15	7.15	2.32	2.31	28.8	28.85	41.4	41.45	3.11	3.12	23.56	23.735	32	36
M2	17/10/2024	Mid-Ebb	Sunny	Low	8:39	2.1	M	1.05	2			7.15		2.3		28.9		41.5		3.12		23.91		40	
M3	17/10/2024	Mid-Ebb	Sunny	Low	9:12	1.9	M	0.95	1	0.063	334.842	7.18	7.18	3.07	3.06	28.8	28.85	50.3	50.90	3.78	3.83	35.70	35.82	50	45
M3	17/10/2024	Mid-Ebb	Sunny	Low	9:12	1.9	M	0.95	2			7.18		3.05		28.9		51.5		3.87		35.94		40	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	19/10/2024	Mid-Flood	Sunny	Low	14:14	2.6	M	1.30	1	0.074	190.053	7.16	7.17	3.15	3.16	28.0	28.05	37.0	37.10	2.78	2.79	20.81	20.81	2.5	3
M1	19/10/2024	Mid-Flood	Sunny	Low	14:14	2.6	M	1.30	2			7.18		3.16		28.1		37.2		2.8		20.81		2.5	
M2	19/10/2024	Mid-Flood	Sunny	Low	14:43	2.4	M	1.20	1	0.075	171.366	7.18	7.18	3.28	3.28	28.0	28.00	36.7	36.15	2.76	2.72	21.18	21.315	2.5	3
M2	19/10/2024	Mid-Flood	Sunny	Low	14:44	2.4	M	1.20	2			7.17		3.28		28		35.6		2.68		21.45		2.5	
M3	19/10/2024	Mid-Flood	Sunny	Low	14:59	2	M	1.00	1	0.078	173.319	7.11	7.11	3.48	3.45	28.0	28.05	49.1	48.70	3.69	3.66	32.28	32.23	2.5	3
M3	19/10/2024	Mid-Flood	Sunny	Low	14:59	2	M	1.00	2			7.11		3.42		28.1		48.3		3.63		32.18		3	
M1	19/10/2024	Mid-Ebb	Sunny	Low	8:59	2.4	M	1.20	1	0.074	329.272	7.18	7.19	3.07	3.05	27.8	27.80	39.6	39.20	2.98	2.95	19.83	20	2.5	3
M1	19/10/2024	Mid-Ebb	Sunny	Low	8:59	2.4	M	1.20	2			7.19		3.03		27.8		38.8		2.92		20.17		2.5	
M2	19/10/2024	Mid-Ebb	Sunny	Low	8:33	2.1	M	1.05	1	0.061	320.774	7.11	7.12	2.91	2.88	27.8	27.80	41.0	41.45	3.08	3.12	21.78	21.9	2.5	3
M2	19/10/2024	Mid-Ebb	Sunny	Low	8:33	2.1	M	1.05	2			7.13		2.85		27.8		41.9		3.15		22.02		2.5	
M3	19/10/2024	Mid-Ebb	Sunny	Low	9:18	2	M	1.00	1	0.068	339.064	7.2	7.20	3.68	3.69	27.8	27.85	50.8	51.05	3.82	3.84	30.88	30.665	2.5	3
M3	19/10/2024	Mid-Ebb	Sunny	Low	9:18	2	M	1.00	2			7.19		3.7		27.9		51.3		3.86		30.45		2.5	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/10/2024	Mid-Flood	Sunny	Low	9:32	2.5	M	1.25	1	0.089	179.273	7.13	7.13	2.69	2.72	28.0	28.00	41.4	41.45	3.11	3.12	16.78	16.565	41	38
M1	22/10/2024	Mid-Flood	Sunny	Low	9:32	2.5	M	1.25	2			7.13		2.74		28		41.5		3.12		16.35		34	
M2	22/10/2024	Mid-Flood	Sunny	Low	9:51	2.1	M	1.05	1	0.091	175.861	7.13	7.14	2.73	2.70	28.0	28.05	42.3	42.90	3.18	3.23	17.75	17.56	40	34
M2	22/10/2024	Mid-Flood	Sunny	Low	9:51	2.1	M	1.05	2			7.14		2.66		28.1		43.5		3.27		17.37		28	
M3	22/10/2024	Mid-Flood	Sunny	Low	10:06	1.9	M	0.95	1	0.089	161.938	7.19	7.18	3.34	3.31	28.0	28.00	50.7	49.80	3.81	3.75	30.11	30.05	22	33
M3	22/10/2024	Mid-Flood	Sunny	Low	10:06	1.9	M	0.95	2			7.17		3.28		28		48.9		3.68		29.99		44	
M1	22/10/2024	Mid-Ebb	Sunny	Low	17:35	2.4	M	1.20	1	0.077	303.883	7.2	7.21	3.81	3.80	27.8	27.85	42.8	43.10	3.22	3.24	18.84	18.695	28	39
M1	22/10/2024	Mid-Ebb	Sunny	Low	17:36	2.4	M	1.20	2			7.22		3.78		27.9		43.4		3.26		18.55		49	
M2	22/10/2024	Mid-Ebb	Sunny	Low	17:01	2	M	1.00	1	0.062	337.13	7.16	7.17	2.48	2.52	27.8	27.85	42.0	41.00	3.16	3.09	18.12	18.065	40	38
M2	22/10/2024	Mid-Ebb	Sunny	Low	17:01	2	M	1.00	2			7.18		2.55		27.9		40.0		3.01		18.01		36	
M3	22/10/2024	Mid-Ebb	Sunny	Low	17:55	1.9	M	0.95	1	0.067	344.014	7.12	7.13	3.40	3.44	27.8	27.85	53.1	52.95	3.99	3.98	28.55	28.575	25	34
M3	22/10/2024	Mid-Ebb	Sunny	Low	17:55	1.9	M	0.95	2			7.13		3.48		27.9		52.8		3.97		28.6		43	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	24/10/2024	Mid-Flood	Sunny	Low	9:32	2.5	M	1.25	1	0.084	189.371	7.15	7.16	2.88	2.92	28.7	28.75	35.9	36.15	2.7	2.67	12.56	12.605	23	26
M1	24/10/2024	Mid-Flood	Sunny	Low	9:32	2.5	M	1.25	2			7.17		2.95		28.8		36.4		2.63		12.65		28	
M2	24/10/2024	Mid-Flood	Sunny	Low	10:01	2.1	M	1.05	1	0.095	186.827	7.12	7.12	2.98	3.01	28.7	28.75	35.4	34.70	2.66	2.59	14.55	14.33	67	64
M2	24/10/2024	Mid-Flood	Sunny	Low	10:01	2.1	M	1.05	2			7.11		3.04		28.8		34.0		2.52		14.11		60	
M3	24/10/2024	Mid-Flood	Sunny	Low	10:13	1.9	M	0.95	1	0.086	188.382	7.2	7.21	3.37	3.38	28.7	28.70	46.8	46.70	3.52	3.48	26.55	26.72	18	17
M3	24/10/2024	Mid-Flood	Sunny	Low	10:13	1.9	M	0.95	2			7.21		3.39		28.7		46.6		3.44		26.89		16	
M1	24/10/2024	Mid-Ebb	Sunny	Low	17:36	2.5	M	1.25	1	0.063	334.711	7.2	7.21	2.58	2.61	28.7	28.70	39.2	39.60	2.95	2.88	13.69	13.78	19	21
M1	24/10/2024	Mid-Ebb	Sunny	Low	17:38	2.5	M	1.25	2			7.22		2.63		28.7		40.0		2.81		13.87		23	
M2	24/10/2024	Mid-Ebb	Sunny	Low	17:01	2.1	M	1.05	1	0.08	339.829	7.13	7.13	2.76	2.75	28.7	28.75	41.0	40.80	3.08	3.06	15.11	15.17	63	56
M2	24/10/2024	Mid-Ebb	Sunny	Low	17:01	2.1	M	1.05	2			7.12		2.73		28.8		40.6		3.03		15.23		49	
M3	24/10/2024	Mid-Ebb	Sunny	Low	17:55	2	M	1.00	1	0.071	304.248	7.18	7.19	3.55	3.54	28.7	28.75	48.9	49.65	3.68	3.64	25.48	25.5	86	81
M3	24/10/2024	Mid-Ebb	Sunny	Low	17:56	2	M	1.00	2			7.19		3.53		28.8		50.4		3.59		25.52		76	

Remark

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

For Flood Tide

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

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	82.2	89.05

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	29/10/2024	Mid-Flood	Sunny	Low	11:17	2.6	M	1.30	1	0.086	181.742	7.16	7.15	3.66	3.65	27.4	27.45	42.3	41.90	3.18	3.15	25.55	25.59	13	14
M1	29/10/2024	Mid-Flood	Sunny	Low	11:17	2.6	M	1.30	2			7.14		3.64		27.5		41.5		3.12		25.63		15	
M2	29/10/2024	Mid-Flood	Sunny	Low	11:48	2.2	M	1.10	1	0.093	181.822	7.14	7.14	3.84	3.84	27.4	27.40	43.2	42.80	3.25	3.22	26.67	26.64	12	14
M2	29/10/2024	Mid-Flood	Sunny	Low	11:48	2.2	M	1.10	2			7.14		3.84		27.4		42.4		3.19		26.61		15	
M3	29/10/2024	Mid-Flood	Sunny	Low	12:01	1.8	M	0.90	1	0.089	166.461	7.18	7.18	4.12	4.11	27.4	27.40	50.3	50.50	3.78	3.80	31.87	31.9	18	18
M3	29/10/2024	Mid-Flood	Sunny	Low	12:01	1.8	M	0.90	2			7.18		4.1		27.4		50.7		3.81		31.93		17	
M1	29/10/2024	Mid-Ebb	Sunny	Low	18:11	2.4	M	1.20	1	0.058	308.602	7.14	7.15	3.75	3.77	27.6	27.65	39.2	39.90	2.95	3.00	26.62	26.63	15	19
M1	29/10/2024	Mid-Ebb	Sunny	Low	18:12	2.4	M	1.20	2			7.15		3.78		27.7		40.6		3.05		26.64		23	
M2	29/10/2024	Mid-Ebb	Sunny	Low	17:40	2	M	1.00	1	0.068	320.53	7.11	7.12	3.83	3.80	27.6	27.65	41.4	41.80	3.11	3.14	27.84	27.795	28	26
M2	29/10/2024	Mid-Ebb	Sunny	Low	17:40	2	M	1.00	2			7.13		3.77		27.7		42.2		3.17		27.75		24	
M3	29/10/2024	Mid-Ebb	Sunny	Low	18:26	1.9	M	0.95	1	0.074	343.123	7.19	7.20	4.30	4.32	27.6	27.60	52.3	52.20	3.93	3.93	38.79	38.955	14	14
M3	29/10/2024	Mid-Ebb	Sunny	Low	18:26	1.9	M	0.95	2			7.21		4.34		27.6		52.1		3.92		39.12		14	

Remark

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

For Flood Tide

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

For Ebb Tide

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

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

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement												Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	31/10/2024	Mid-Flood	Sunny	Low	12:31	2.6	M	1.30	1	0.084	176.599	7.2	7.20	2.85	2.83	28.9	28.95	39.8	40.05	2.99	3.01	16.94	16.91	23	19
M1	31/10/2024	Mid-Flood	Sunny	Low	12:31	2.6	M	1.30	2			7.2		2.81		29		40.3		3.03		16.88		14	
M2	31/10/2024	Mid-Flood	Sunny	Low	13:01	2.2	M	1.10	1	0.08	183.277	7.18	7.17	2.80	2.84	28.9	28.90	41.0	41.45	3.08	3.12	17.55	17.69	17	18
M2	31/10/2024	Mid-Flood	Sunny	Low	13:02	2.2	M	1.10	2			7.16		2.88		28.9		41.9		3.15		17.83		18	
M3	31/10/2024	Mid-Flood	Sunny	Low	13:16	1.9	M	0.95	1	0.091	187.998	7.19	7.20	3.46	3.44	28.9	28.95	50.1	50.70	3.77	3.82	31.15	31.15	15	16
M3	31/10/2024	Mid-Flood	Sunny	Low	13:16	1.9	M	0.95	2			7.21		3.42		29		51.3		3.86		31.15		16	
M1	31/10/2024	Mid-Ebb	Sunny	Low	8:55	2.5	M	1.25	1	0.06	315.991	7.18	7.19	3.02	3.03	28.7	28.75	41.4	40.65	3.11	3.06	17.93	18.005	16	19
M1	31/10/2024	Mid-Ebb	Sunny	Low	8:55	2.5	M	1.25	2			7.2		3.03		28.8		39.9		3		18.08		21	
M2	31/10/2024	Mid-Ebb	Sunny	Low	8:27	2.2	M	1.10	1	0.079	330.843	7.16	7.16	2.99	3.03	28.7	28.70	43.1	42.70	3.24	3.21	18.16	18.13	21	23
M2	31/10/2024	Mid-Ebb	Sunny	Low	8:27	2.2	M	1.10	2			7.16		3.06		28.7		42.3		3.18		18.1		24	
M3	31/10/2024	Mid-Ebb	Sunny	Low	9:11	2	M	1.00	1	0.065	308.782	7.17	7.17	3.58	3.63	28.7	28.75	51.2	51.00	3.85	3.84	32.28	32.09	22	23
M3	31/10/2024	Mid-Ebb	Sunny	Low	9:11	2	M	1.00	2			7.16		3.67		28.8		50.8		3.82		31.9		24	

Remark

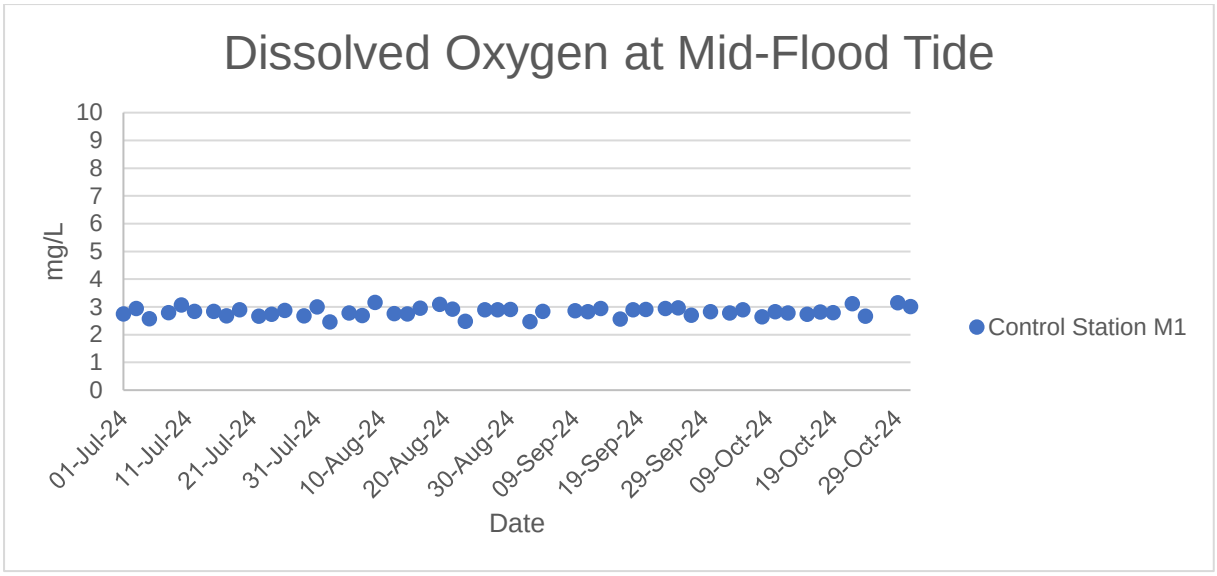
1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile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

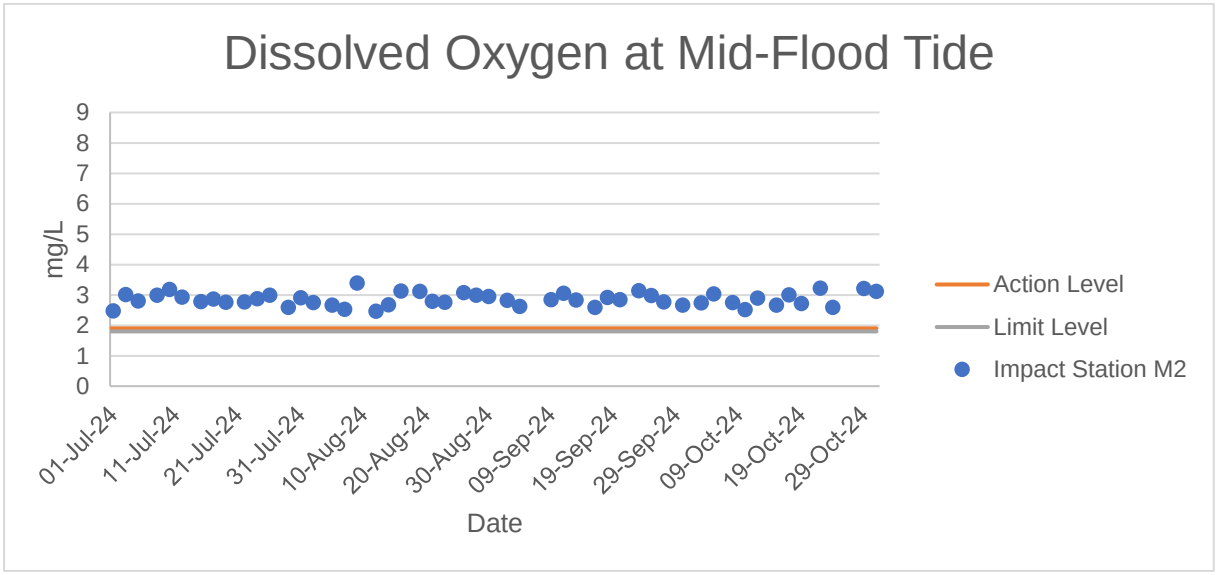
For Flood Tide

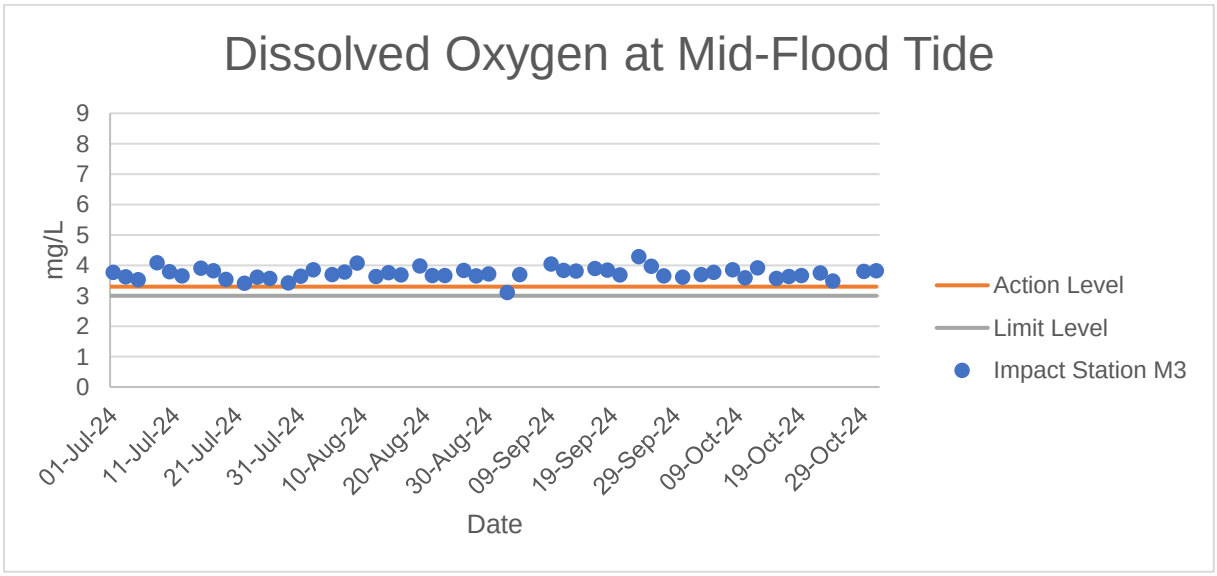
Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

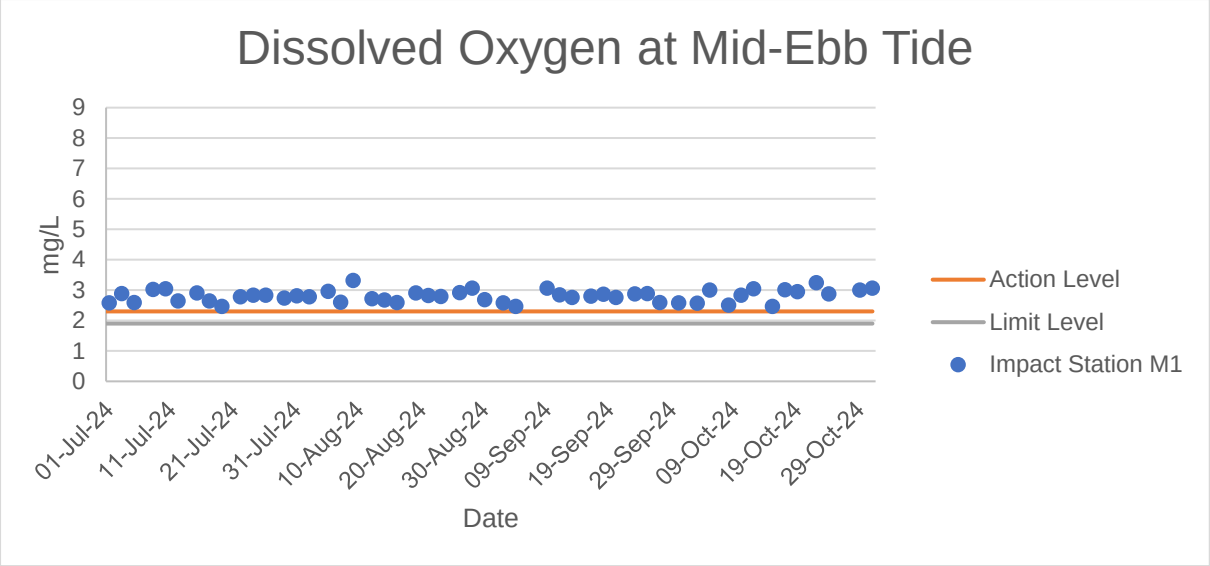
For Ebb Tide

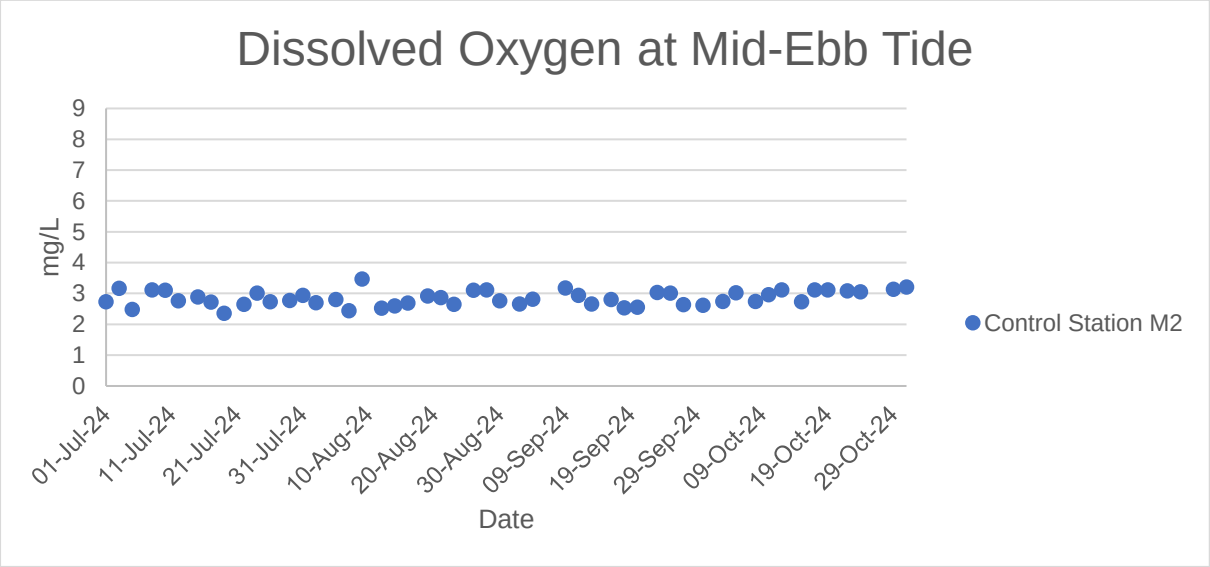
Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

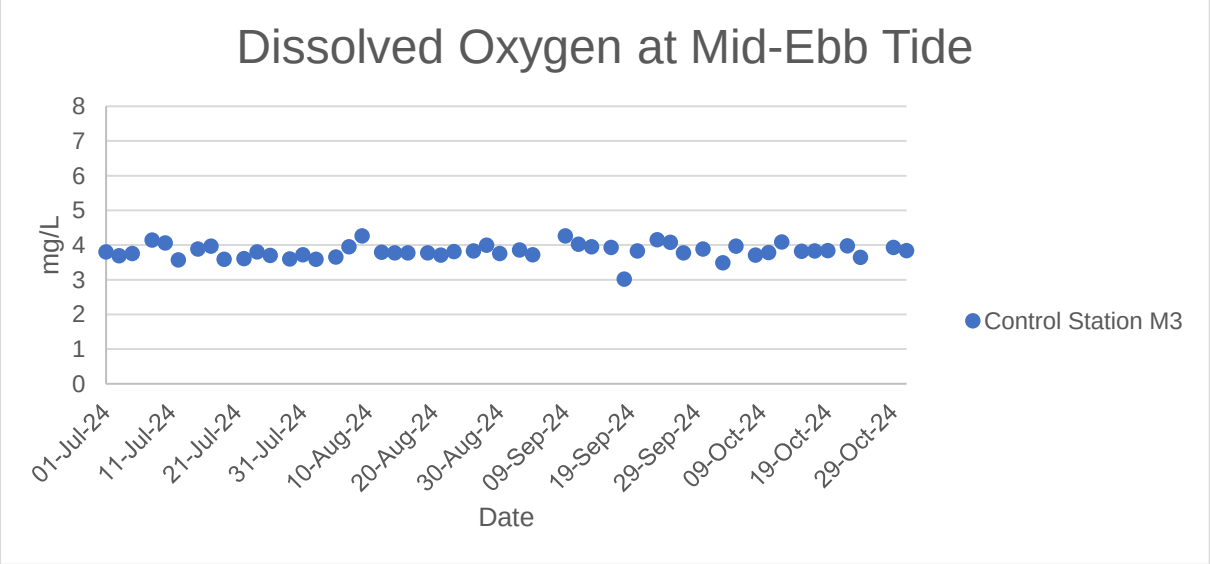

Dissolved Oxygen at Mid-Flood Tide
mg/L
10
9
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M1

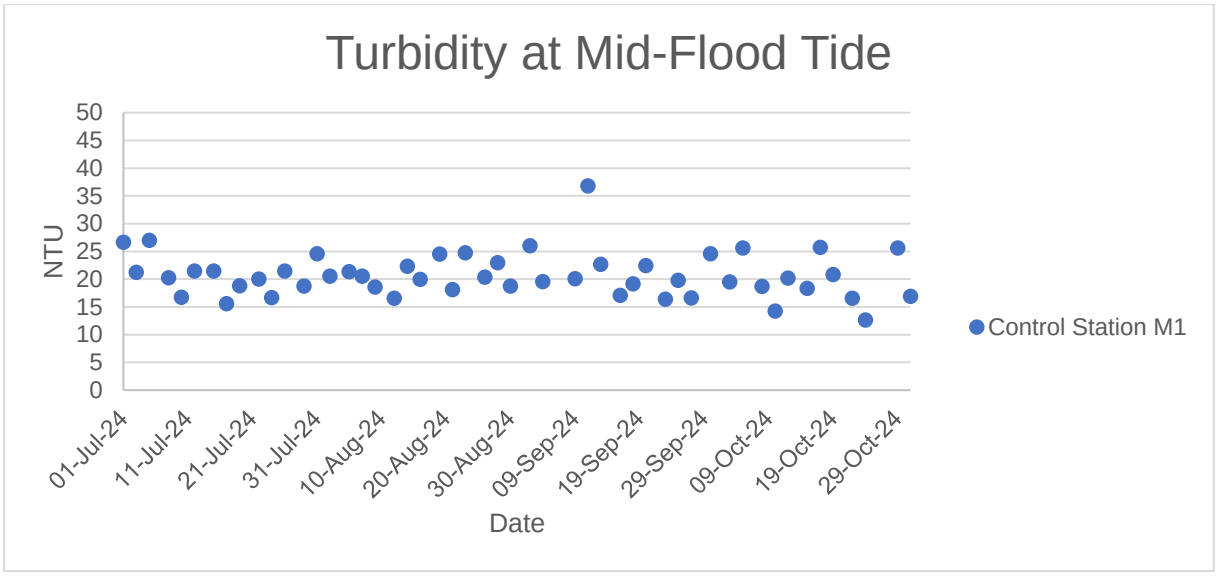

Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M2

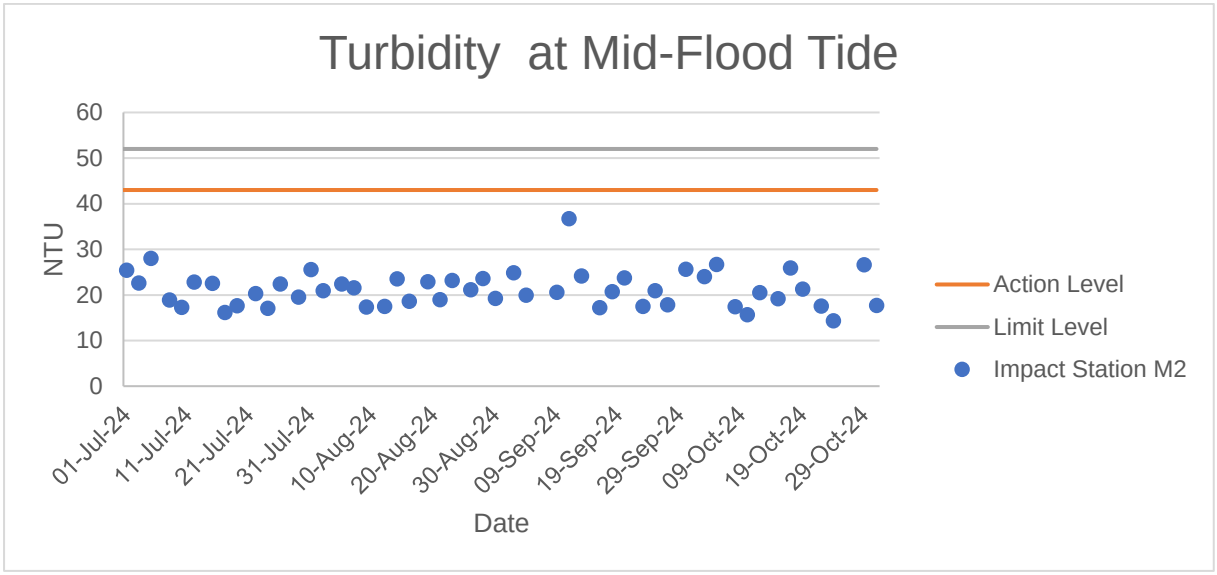

Dissolved Oxygen at Mid-Flood Tide
mg/L
9
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M3

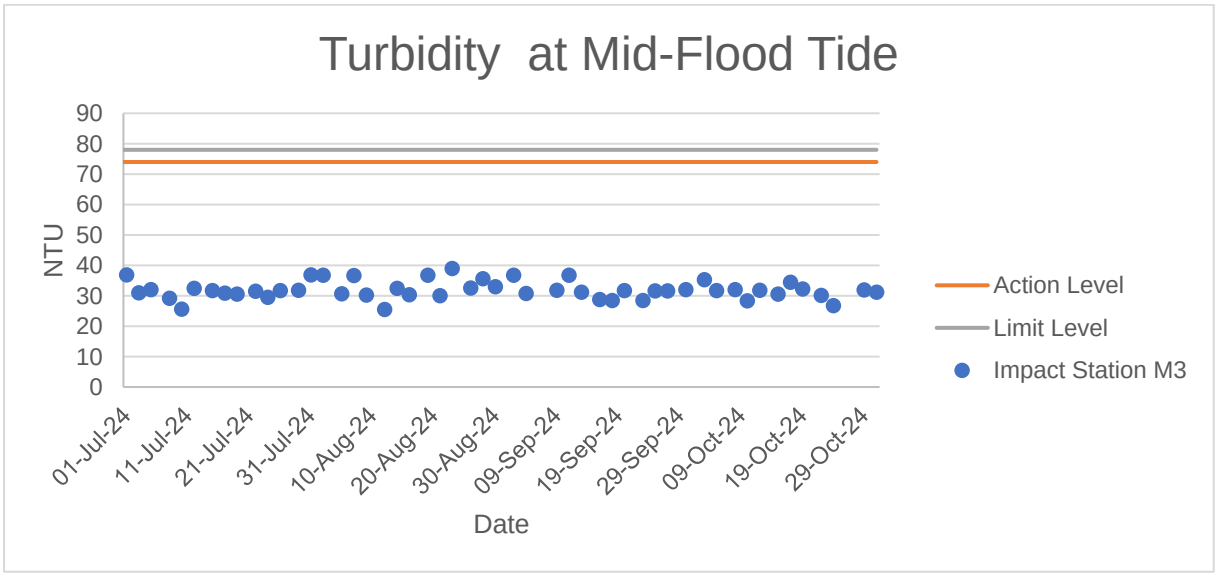

Dissolved Oxygen at Mid-Ebb Tide
mg/L
9
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M1

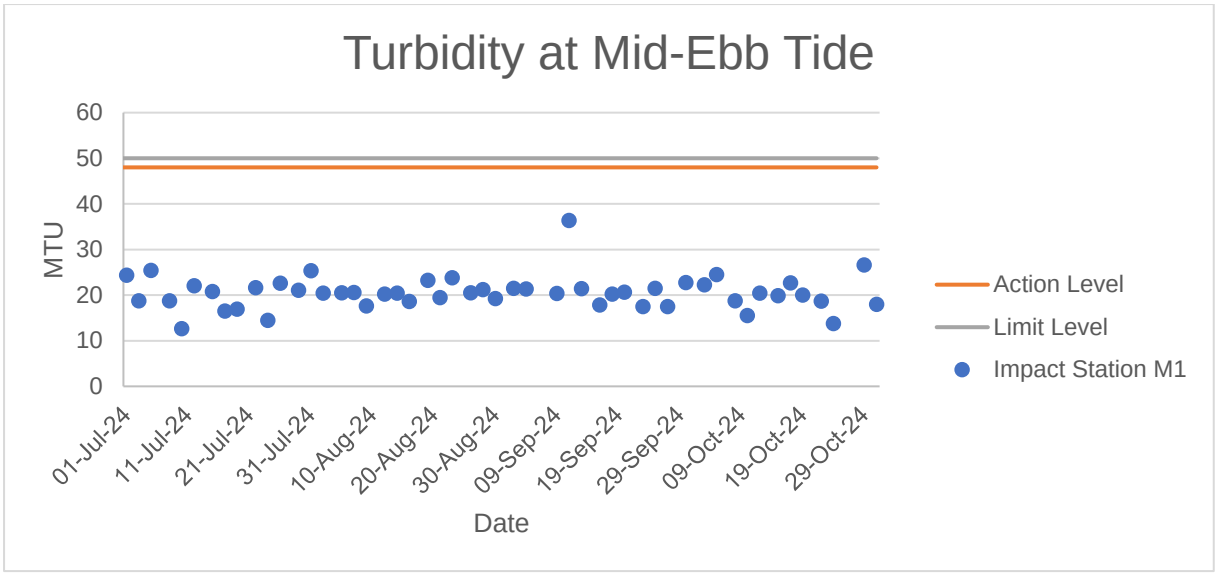

Dissolved Oxygen at Mid-Ebb Tide
mg/L
9
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M2

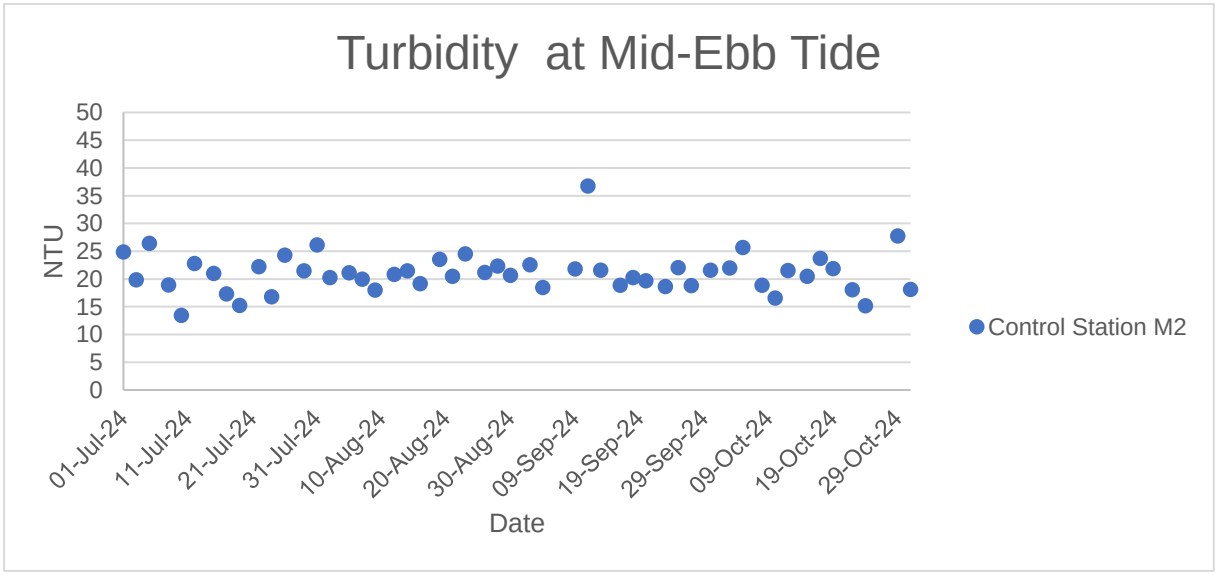

Dissolved Oxygen at Mid-Ebb Tide
mg/L
8
7
6
5
4
3
2
1
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M3

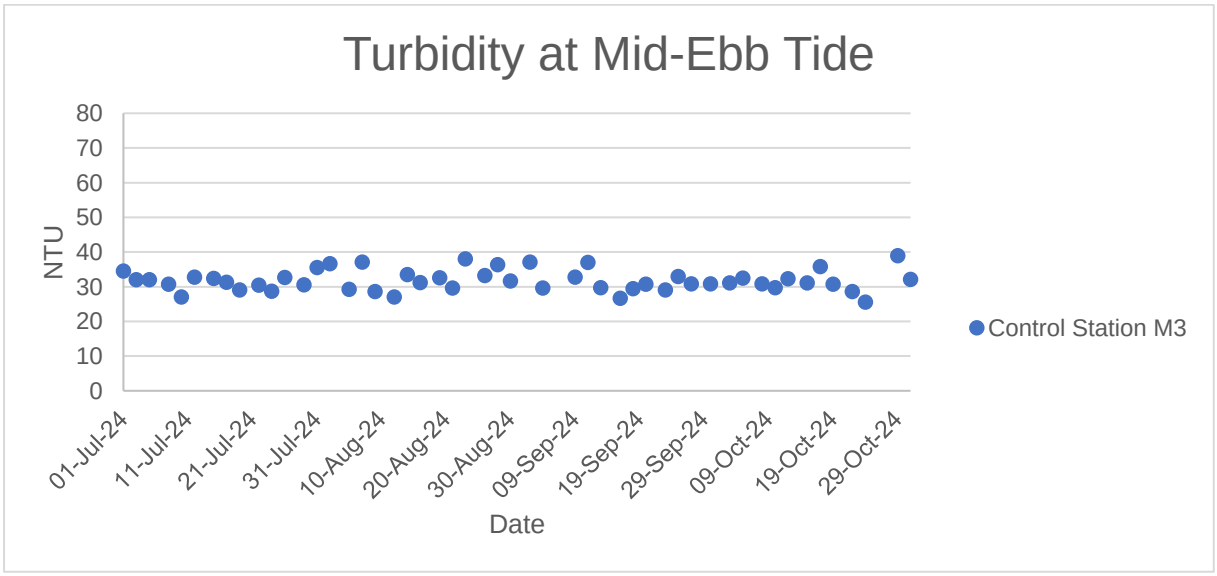

Turbidity at Mid-Flood Tide
NTU
50
45
40
35
30
25
20
15
10
5
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M1

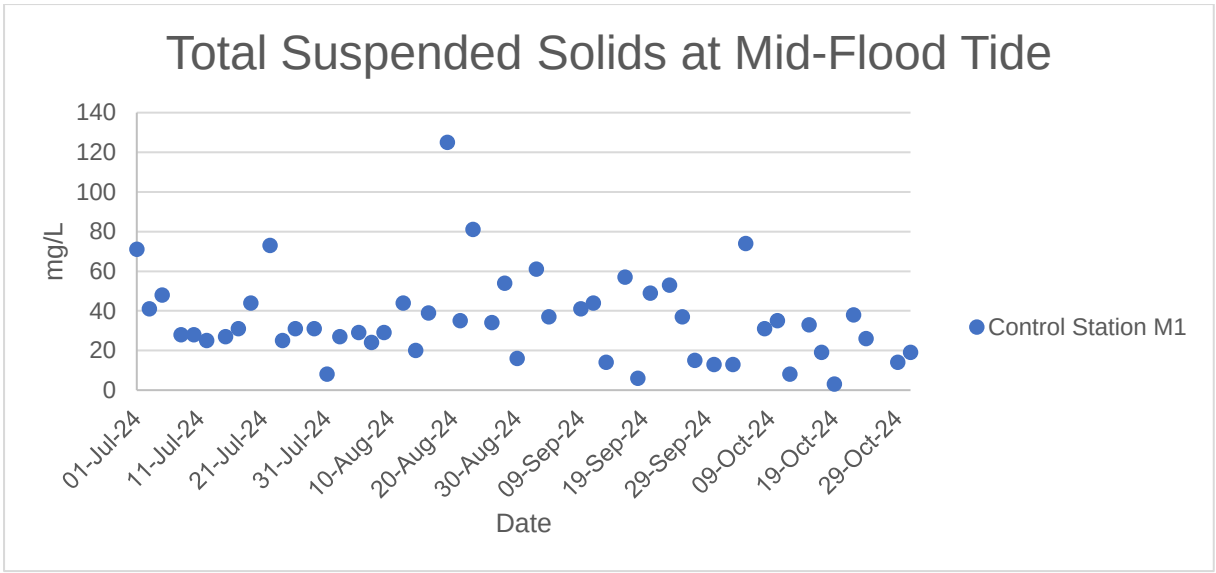

Turbidity at Mid-Flood Tide
NTU
60
50
40
30
20
10
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M2

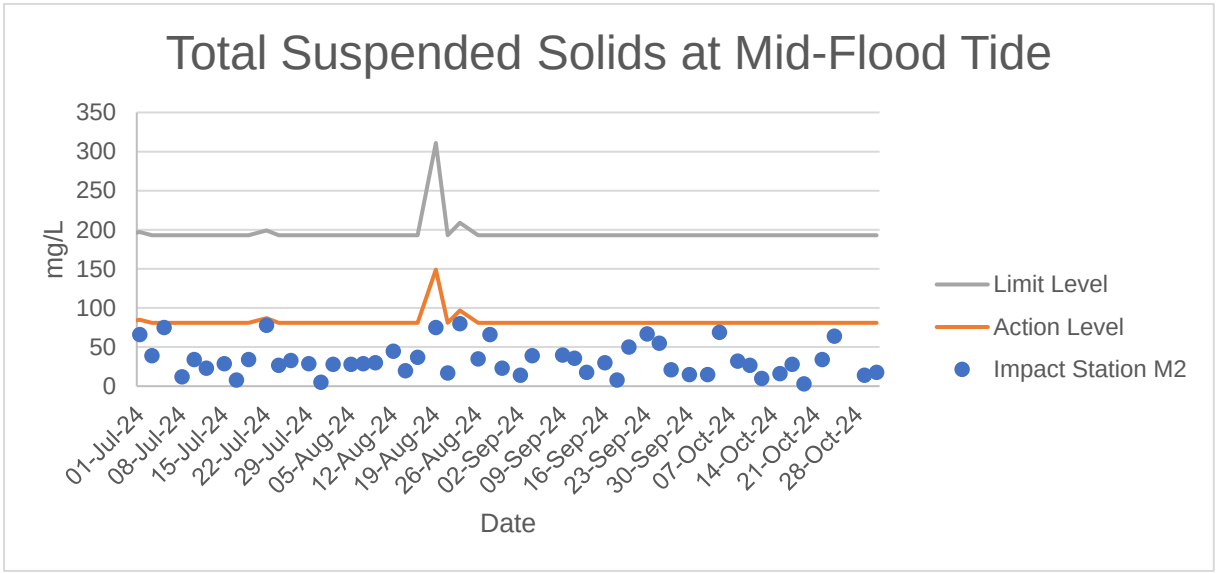

Turbidity at Mid-Flood Tide
NTU
90
80
70
60
50
40
30
20
10
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M3

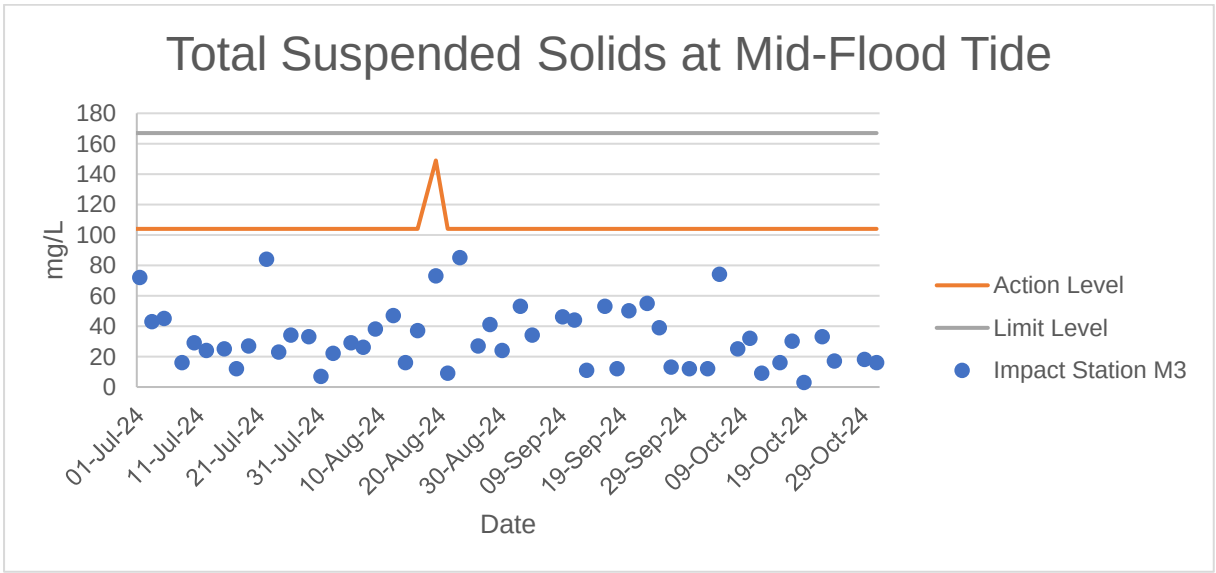

Turbidity at Mid-Ebb Tide
MTU
60
50
40
30
20
10
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M1

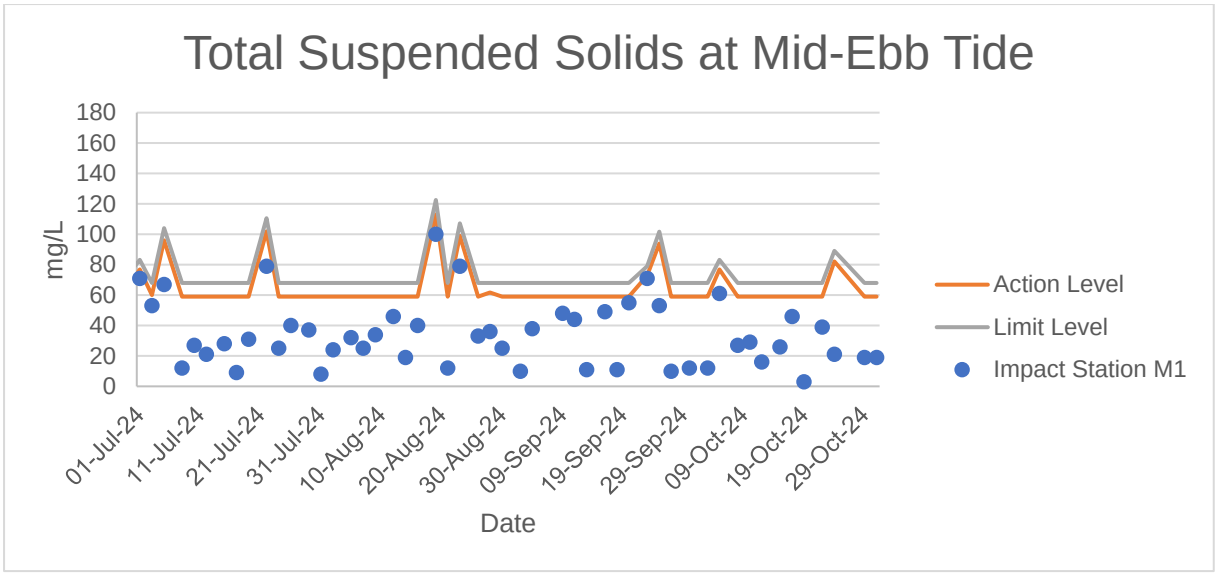

Turbidity at Mid-Ebb Tide
NTU
50
45
40
35
30
25
20
15
10
5
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M2

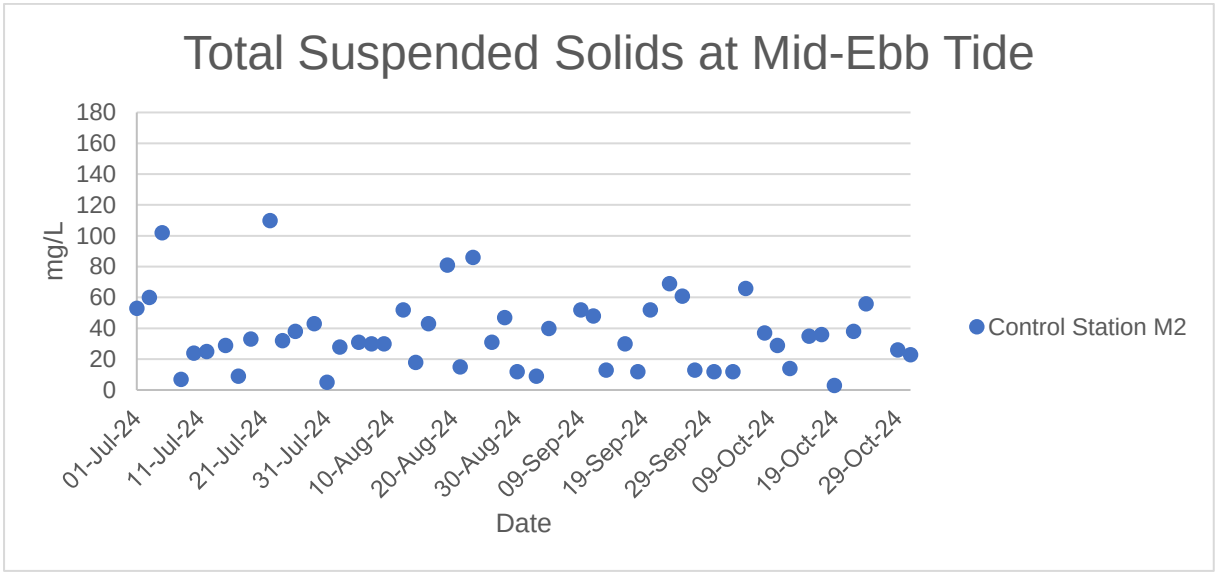

Turbidity at Mid-Ebb Tide
NTU
80
70
60
50
40
30
20
10
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M3

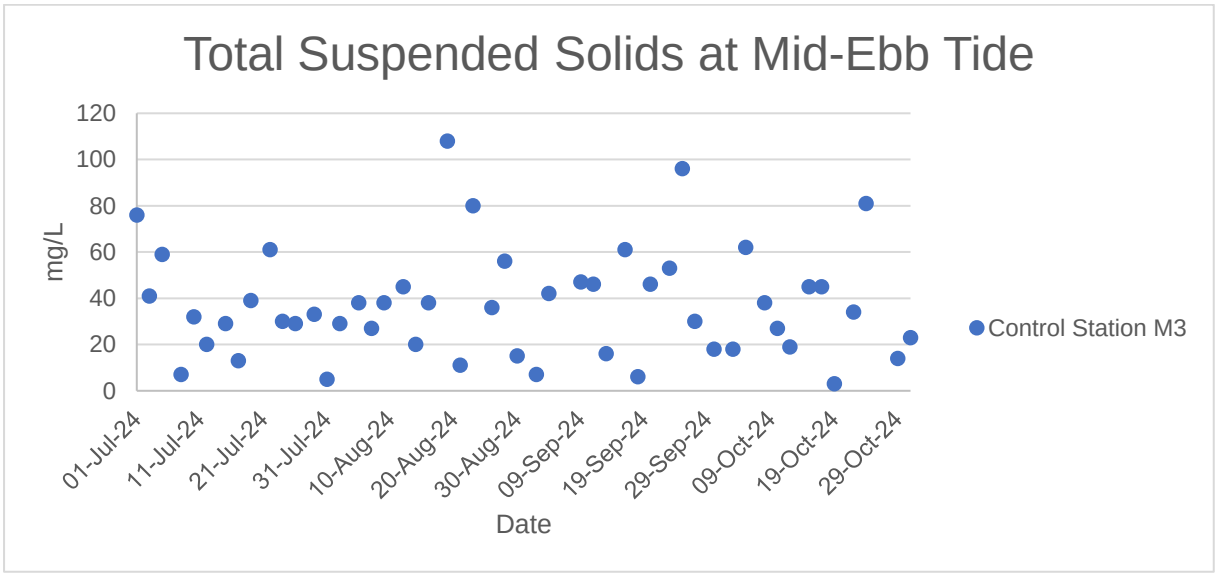

Total Suspended Solids at Mid-Flood Tide
mg/L
140
120
100
80
60
40
20
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M1


Total Suspended Solids at Mid-Flood Tide
mg/L
350
300
250
200
150
100
50
0
01-Jul-24
08-Jul-24
15-Jul-24
22-Jul-24
29-Jul-24
05-Aug-24
12-Aug-24
19-Aug-24
26-Aug-24
02-Sep-24
09-Sep-24
16-Sep-24
23-Sep-24
30-Sep-24
07-Oct-24
14-Oct-24
21-Oct-24
28-Oct-24
Date
Limit Level
Action Level
Impact Station M2


Total Suspended Solids at Mid-Flood Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M3


Total Suspended Solids at Mid-Ebb Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Action Level
Limit Level
Impact Station M1


Total Suspended Solids at Mid-Ebb Tide
mg/L
180
160
140
120
100
80
60
40
20
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M2


Total Suspended Solids at Mid-Ebb Tide
mg/L
120
100
80
60
40
20
0
01-Jul-24
11-Jul-24
21-Jul-24
31-Jul-24
10-Aug-24
20-Aug-24
30-Aug-24
09-Sep-24
19-Sep-24
29-Sep-24
09-Oct-24
19-Oct-24
29-Oct-24
Date
Control Station M3

Ecology Monitoring Results for

Contract No. SPW 02/2023

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

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Little Grebe	*Tachybaptus ruficollis*	2	Common	R	LC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Little Egret	*Egretta garzetta*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Great Cormorant	*Phalacrocorax carbo*	1	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Little Ringed Plover	*Charadrius dubius*	4	Common	WV,PM	(LC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Common Snipe	*Gallinago gallinago*	3	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Common Sandpiper	*Actitis hypoleucos*	2	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Green Sandpiper	*Tringa ochropus*	1	Uncommon	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Spotted Dove	*Spilopelia chinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	White-throated Kingfisher	*Halcyon smyrnensis*	1	Common	R	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Plain Prinia	*Prinia inornata*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Crested Myna	*Acridotheres cristatellus*	2	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Black-collared Starling	*Gracupica nigricollis*	3	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	Stejneger's Stonechat	*Saxicola stejnegeri*	1	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW1	White Wagtail	*Motacilla alba*	4	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Chinese Pond Heron	*Ardeola bacchus*	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Little Egret	*Egretta garzetta*	13	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Black-winged Stilt	*Himantopus himantopus*	4	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Little Ringed Plover	*Charadrius dubius*	1	Common	WV,PM	(LC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Eurasian Collared Dove	*Streptopelia decaocto*	1	Common	-	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Spotted Dove	*Spilopelia chinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	Crested Myna	*Acridotheres cristatellus*	4	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW2	White Wagtail	*Motacilla alba*	2	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW3	Little Egret	*Egretta garzetta*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW3	Black Kite	*Milvus migrans*	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	FLW	Point Count	FLW3	White-throated Kingfisher	*Halcyon smyrnensis*	1	Common	R	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW3	Crested Myna	*Acridotheres cristatellus*	20	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW4	Little Grebe	*Tachybaptus ruficollis*	2	Common	R	LC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW4	Chinese Pond Heron	*Ardeola bacchus*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW4	White-throated Kingfisher	*Halcyon smyrnensis*	1	Common	R	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW4	Stejneger's Stonechat	*Saxicola stejnegeri*	2	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Yellow Bittern	*Ixobrychus sinensis*	1	Uncommon	PM,SV	(LC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Chinese Pond Heron	*Ardeola bacchus*	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Eastern Cattle Egret	*Bubulcus coromandus*	4	Common	R.PM	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Great Cormorant	*Phalacrocorax carbo*	3	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Black-winged Stilt	*Himantopus himantopus*	1	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Spotted Dove	*Spilopelia chinensis*	1	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Crested Myna	*Acridotheres cristatellus*	25	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Common Myna	*Acridotheres tristis*	3	Uncommon	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Red-billed Starling	*Spodiopsar sericeus*	3	Common	WV	GC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW5	Eastern Yellow Wagtail	*Motacilla tschutschensis*	1	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW6	Great Egret	*Ardea alba*	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW6	Black-collared Starling	*Gracupica nigricollis*	5	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Chinese Pond Heron	*Ardeola bacchus*	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Little Egret	*Egretta garzetta*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Great Cormorant	*Phalacrocorax carbo*	2	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Spotted Dove	*Spilopelia chinensis*	1	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Black Drongo	*Dicrurus macrocercus*	2	Common	SV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Black-collared Starling	*Gracupica nigricollis*	4	Common	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Oriental Magpie Robin	*Copsychus saularis*	1	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Point Count	FLW7	Scaly-breasted Munia	*Lonchura punctulata*	4	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Great Cormorant	*Phalacrocorax carbo*	1	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Spotted Dove	*Spilopelia chinensis*	1	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Greater Coucal	*Centropus sinensis*	1	Common	R	-	Class II	VU	LC	LC	Y	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Pied Kingfisher	*Ceryle rudis*	1	Uncommon	R	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Collared Crow	*Corvus torquatus*	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Red-whiskered Bulbul	*Pycnonotus jocosus*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Bulbul	*Pycnonotus sinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Dusky Warbler	*Phylloscopus fuscatus*	1	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Plain Prinia	*Prinia inornata*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Swinhoe's White-eye	*Zosterops simplex*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Crested Myna	*Acridotheres cristatellus*	4	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Black-collared Starling	*Gracupica nigricollis*	5	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Scaly-breasted Munia	*Lonchura punctulata*	10	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	FLW	Transect	FLW	Black-browed Reed Warbler	*Acrocephalus bistrigiceps*	1	Common	PM	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Chinese Pond Heron	*Ardeola bacchus*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Great Cormorant	*Phalacrocorax carbo*	93	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Black Kite	*Milvus migrans*	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	White-breasted Waterhen	*Amaurornis phoenicurus*	3	Common	R	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Common Sandpiper	*Actitis hypoleucos*	1	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Common Redshank	*Tringa totanus*	1	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Collared Dove	*Streptopelia decaocto*	6	Common	-	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Spotted Dove	*Spilopelia chinensis*	9	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Common Kingfisher	*Alcedo atthis*	1	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Large-billed Crow	*Corvus macrorhynchos*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Crested Myna	*Acridotheres cristatellus*	12	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Black-collared Starling	*Gracupica nigricollis*	3	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Tree Sparrow	*Passer montanus*	8	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	NSW1	White Wagtail	*Motacilla alba*	3	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Pond Heron	*Ardeola bacchus*	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Grey Heron	*Ardea cinerea*	1	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Little Egret	*Egretta garzetta*	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Great Cormorant	*Phalacrocorax carbo*	1	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-winged Stilt	*Himantopus himantopus*	7	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Greenshank	*Tringa nebularia*	3	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Spotted Dove	*Spilopelia chinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Greater Coucal	*Centropus sinensis*	1	Common	R	-	Class II	VU	LC	LC	Y	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Red-whiskered Bulbul	*Pycnonotus jocosus*	3	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Bulbul	*Pycnonotus sinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Plain Prinia	*Prinia inornata*	2	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Swinhoe's White-eye	*Zosterops simplex*	6	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Crested Myna	*Acridotheres cristatellus*	10	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-collared Starling	*Gracupica nigricollis*	5	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Stejneger's Stonechat	*Saxicola stejnegeri*	1	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	White Wagtail	*Motacilla alba*	3	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-browed Reed Warbler	*Acrocephalus bistrigiceps*	4	Common	PM	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Pond Heron	*Ardeola bacchus*	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Grey Heron	*Ardea cinerea*	3	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Great Egret	*Ardea alba*	6	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Little Egret	*Egretta garzetta*	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Great Cormorant	*Phalacrocorax carbo*	2	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Black-winged Stilt	*Himantopus himantopus*	9	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Sandpiper	*Actitis hypoleucos*	1	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Redshank	*Tringa totanus*	1	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Greenshank	*Tringa nebularia*	3	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Yellow-bellied Prinia	*Prinia flaviventris*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	White Wagtail	*Motacilla alba*	2	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Chinese Pond Heron	*Ardeola bacchus*	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Grey Heron	*Ardea cinerea*	1	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Great Egret	*Ardea alba*	27	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Little Egret	*Egretta garzetta*	52	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Great Cormorant	*Phalacrocorax carbo*	3	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Black Kite	*Milvus migrans*	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Black-winged Stilt	*Himantopus himantopus*	26	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Pied Avocet	*Recurvirostra avosetta*	1	Abundant	WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Redshank	*Tringa totanus*	4	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Greenshank	*Tringa nebularia*	3	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	White Wagtail	*Motacilla alba*	1	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Chinese Pond Heron	*Ardeola bacchus*	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Great Egret	*Ardea alba*	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Little Egret	*Egretta garzetta*	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Great Cormorant	*Phalacrocorax carbo*	3	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Black-winged Stilt	*Himantopus himantopus*	12	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Common Redshank	*Tringa totanus*	2	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Common Greenshank	*Tringa nebularia*	6	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Eurasian Collared Dove	*Streptopelia decaocto*	2	Common	-	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Spotted Dove	*Spilopelia chinensis*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Red-whiskered Bulbul	*Pycnonotus jocosus*	3	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Yellow-bellied Prinia	*Prinia flaviventris*	2	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Plain Prinia	*Prinia inornata*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Swinhoe's White-eye	*Zosterops simplex*	1	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Crested Myna	*Acridotheres cristatellus*	20	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	Black-collared Starling	*Gracupica nigricollis*	6	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	NSW	Transect	NSW	White Wagtail	*Motacilla alba*	3	Common	PM,WV	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Eurasian Teal	*Anas crecca*	18	Common	WV	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	*Ardeola bacchus*	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Grey Heron	*Ardea cinerea*	4	Common	WV	PRC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Great Egret	*Ardea alba*	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Little Egret	*Egretta garzetta*	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	*Amaurornis phoenicurus*	1	Common	R	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Moorhen	*Gallinula chloropus*	2	Common	R	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Black-winged Stilt	*Himantopus himantopus*	42	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Sandpiper	*Actitis hypoleucos*	1	Common	PM,WV	-	-	-	LC	LC	N	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Redshank	*Tringa totanus*	16	Common	PM	RC	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Greenshank	*Tringa nebularia*	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (23 October 2024)

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	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[9]	IUCN Red List[7] (v.2020-3)	Species of Conservation Importance	Wetland Dependent[8]
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Eurasian Collared Dove	*Streptopelia decaocto*	2	Common	-	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White-throated Kingfisher	*Halcyon smyrnensis*	1	Common	R	-	-	-	LC	LC	Y	Y
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Plain Prinia	*Prinia inornata*	1	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Swinhoe's White-eye	*Zosterops simplex*	2	Abundant	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Crested Myna	*Acridotheres cristatellus*	15	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Black-collared Starling	*Gracupica nigricollis*	4	Common	R	-	-	-	LC	LC	N	N
23/10/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White Wagtail	*Motacilla alba*	1	Common	PM,WV	-	-	-	LC	LC	N	N

Notes:

1. All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
2. AFCD (2021). Hong Kong Biodiversity Database.
3. Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
4. Fellowes et al. (2002): 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.
8. Wetland-dependent species (including wetland-dependent species and waterbirds).
9. 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 (23 October 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P)^2
Tachybaptus ruficollis	4	0.0077	-4.8695	-0.0374	0.1820
Ixobrychus sinensis	1	0.0019	-6.2558	-0.0120	0.0751
Ardeola bacchus	27	0.0518	-2.9599	-0.1534	0.4540
Bubulcus coromandus	4	0.0077	-4.8695	-0.0374	0.1820
Ardea cinerea	5	0.0096	-4.6463	-0.0446	0.2072
Ardea alba	34	0.0653	-2.7294	-0.1781	0.4862
Egretta garzetta	75	0.1440	-1.9383	-0.2790	0.5408
Phalacrocorax carbo	105	0.2015	-1.6018	-0.3228	0.5171
Milvus migrans	4	0.0077	-4.8695	-0.0374	0.1820
Amaurornis phoenicurus	3	0.0058	-5.1571	-0.0297	0.1531
Himantopus himantopus	47	0.0902	-2.4056	-0.2170	0.5220
Recurvirostra avosetta	1	0.0019	-6.2558	-0.0120	0.0751
Charadrius dubius	5	0.0096	-4.6463	-0.0446	0.2072
Gallinago gallinago	3	0.0058	-5.1571	-0.0297	0.1531
Actitis hypoleucos	4	0.0077	-4.8695	-0.0374	0.1820
Tringa ochropus	1	0.0019	-6.2558	-0.0120	0.0751
Tringa totanus	6	0.0115	-4.4640	-0.0514	0.2295
Tringa nebularia	9	0.0173	-4.0585	-0.0701	0.2845
Streptopelia decaocto	7	0.0134	-4.3098	-0.0579	0.2496
Spilopelia chinensis	17	0.0326	-3.4225	-0.1117	0.3822
Centropus sinensis	1	0.0019	-6.2558	-0.0120	0.0751
Halcyon smyrnensis	3	0.0058	-5.1571	-0.0297	0.1531
Alcedo atthis	1	0.0019	-6.2558	-0.0120	0.0751
Dicrurus macrocercus	2	0.0038	-5.5626	-0.0214	0.1188
Corvus macrorhynchos	1	0.0019	-6.2558	-0.0120	0.0751
Pycnonotus jocosus	3	0.0058	-5.1571	-0.0297	0.1531
Pycnonotus sinensis	2	0.0038	-5.5626	-0.0214	0.1188
Acrocephalus bistrigiceps	4	0.0077	-4.8695	-0.0374	0.1820
Prinia flaviventris	1	0.0019	-6.2558	-0.0120	0.0751
Prinia inornata	3	0.0058	-5.1571	-0.0297	0.1531
Zosterops simplex	6	0.0115	-4.4640	-0.0514	0.2295
Acridotheres cristatellus	73	0.1401	-1.9653	-0.2754	0.5412
Acridotheres tristis	3	0.0058	-5.1571	-0.0297	0.1531
Spodiopsar sericeus	3	0.0058	-5.1571	-0.0297	0.1531
Gracupica nigricollis	20	0.0384	-3.2600	-0.1251	0.4080
Copsychus saularis	1	0.0019	-6.2558	-0.0120	0.0751
Saxicola stejnegeri	4	0.0077	-4.8695	-0.0374	0.1820
Passer montanus	8	0.0154	-4.1763	-0.0641	0.2678
Lonchura punctulata	4	0.0077	-4.8695	-0.0374	0.1820
Motacilla tschutschensis	1	0.0019	-6.2558	-0.0120	0.0751
Motacilla alba	15	0.0288	-3.5477	-0.1021	0.3624
Total	521	1	-192.2089	-2.7692	9.1490
Richness	41				
SS	9.1490				
SQ	7.6683				
H	2.7692				
S^2H	0.0029				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (23 October 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Tachybaptus ruficollis	4	0.0120	-4.4248	-0.0530	0.2345
Ixobrychus sinensis	1	0.0030	-5.8111	-0.0174	0.1011
Ardeola bacchus	27	0.0808	-2.5153	-0.2033	0.5114
Bubulcus coromandus	4	0.0120	-4.4248	-0.0530	0.2345
Ardea cinerea	5	0.0150	-4.2017	-0.0629	0.2643
Ardea alba	34	0.1018	-2.2848	-0.2326	0.5314
Egretta garzetta	75	0.2246	-1.4937	-0.3354	0.5010
Phalacrocorax carbo	105	0.3144	-1.1572	-0.3638	0.4210
Milvus migrans	4	0.0120	-4.4248	-0.0530	0.2345
Himantopus himantopus	47	0.1407	-1.9610	-0.2759	0.5411
Recurvirostra avosetta	1	0.0030	-5.8111	-0.0174	0.1011
Charadrius dubius	5	0.0150	-4.2017	-0.0629	0.2643
Tringa totanus	6	0.0180	-4.0194	-0.0722	0.2902
Tringa nebularia	9	0.0269	-3.6139	-0.0974	0.3519
Centropus sinensis	1	0.0030	-5.8111	-0.0174	0.1011
Halcyon smyrnensis	3	0.0090	-4.7125	-0.0423	0.1995
Spodiopsar sericeus	3	0.0090	-4.7125	-0.0423	0.1995
Total	334	1	-65.5816	-2.0023	5.0823
Richness	17				
SS	5.0823				
SQ	4.0091				
H	2.0023				
S^2H	0.00329				

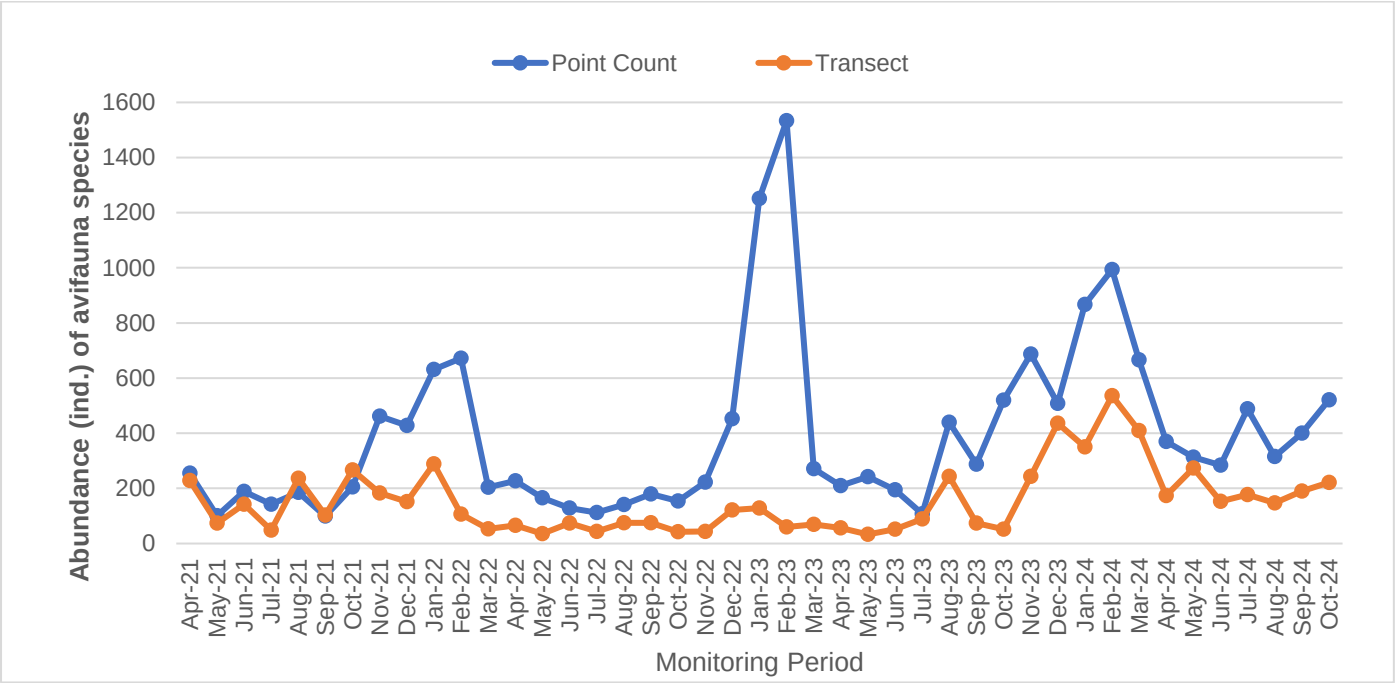
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (23 October 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P)^2
Anas crecca	18	0.0811	-2.5123	-0.2037	0.5118
Ardeola bacchus	7	0.0315	-3.4568	-0.1090	0.3768
Ardea cinerea	4	0.0180	-4.0164	-0.0724	0.2907
Ardea alba	4	0.0180	-4.0164	-0.0724	0.2907
Egretta garzetta	4	0.0180	-4.0164	-0.0724	0.2907
Phalacrocorax carbo	4	0.0180	-4.0164	-0.0724	0.2907
Amaurornis phoenicurus	1	0.0045	-5.4027	-0.0243	0.1315
Gallinula chloropus	2	0.0090	-4.7095	-0.0424	0.1998
Himantopus himantopus	54	0.2432	-1.4137	-0.3439	0.4861
Actitis hypoleucos	1	0.0045	-5.4027	-0.0243	0.1315
Tringa totanus	18	0.0811	-2.5123	-0.2037	0.5118
Tringa nebularia	7	0.0315	-3.4568	-0.1090	0.3768
Streptopelia decaocto	4	0.0180	-4.0164	-0.0724	0.2907
Spilopelia chinensis	3	0.0135	-4.3041	-0.0582	0.2503
Centropus sinensis	1	0.0045	-5.4027	-0.0243	0.1315
Halcyon smyrnensis	1	0.0045	-5.4027	-0.0243	0.1315
Ceryle rudis	1	0.0045	-5.4027	-0.0243	0.1315
Corvus torquatus	1	0.0045	-5.4027	-0.0243	0.1315
Pycnonotus jocosus	5	0.0225	-3.7932	-0.0854	0.3241
Pycnonotus sinensis	2	0.0090	-4.7095	-0.0424	0.1998
Phylloscopus fuscatus	1	0.0045	-5.4027	-0.0243	0.1315
Acrocephalus bistrigiceps	1	0.0045	-5.4027	-0.0243	0.1315
Prinia flaviventris	2	0.0090	-4.7095	-0.0424	0.1998
Prinia inornata	3	0.0135	-4.3041	-0.0582	0.2503
Zosterops simplex	5	0.0225	-3.7932	-0.0854	0.3241
Acridotheres cristatellus	39	0.1757	-1.7391	-0.3055	0.5313
Gracupica nigricollis	15	0.0676	-2.6946	-0.1821	0.4906
Lonchura punctulata	10	0.0450	-3.1001	-0.1396	0.4329
Motacilla alba	4	0.0180	-4.0164	-0.0724	0.2907
Total	222	1	-118.5286	-2.6399	8.2621
Richness	29				
SS	8.2621				
SQ	6.9689				
H	2.6399				
S^2H	0.006109				

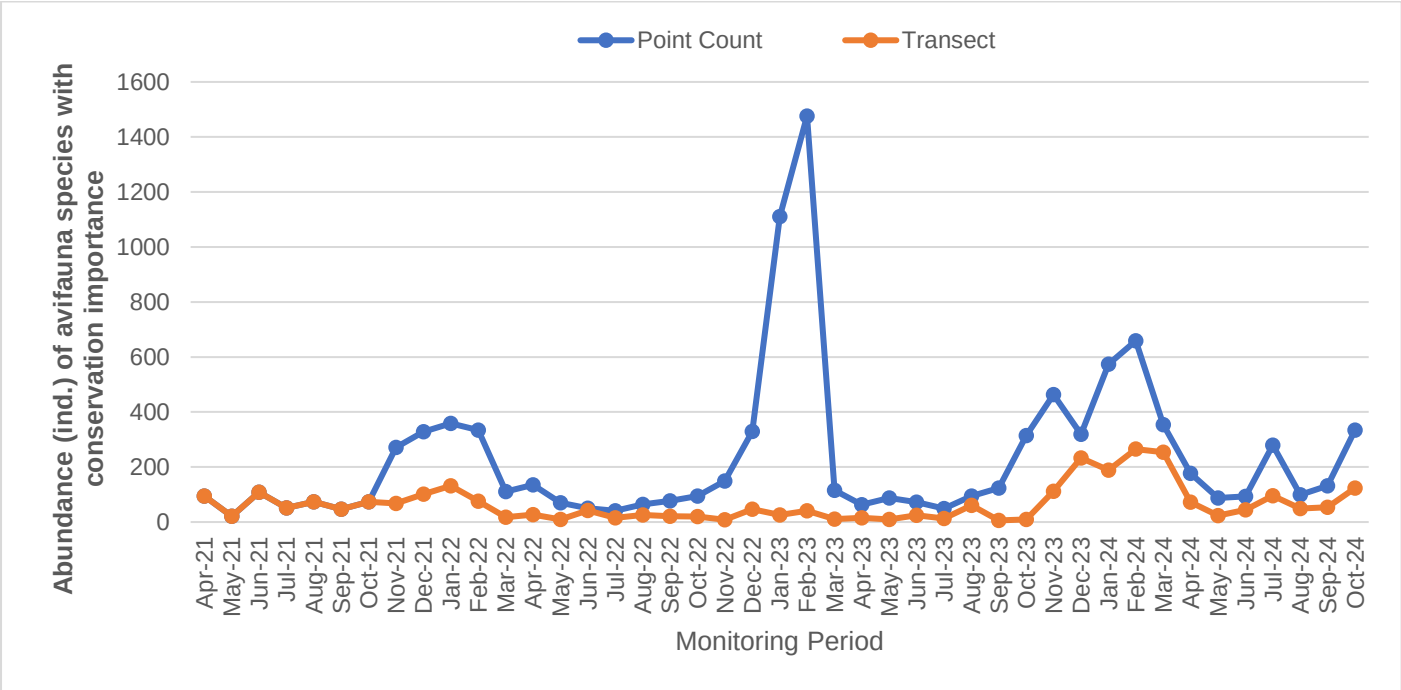
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (23 October 2024)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	$P*Ln(P)^2$
Anas crecca	18	0.1452	-1.9299	-0.2801	0.5407
Ardeola bacchus	7	0.0565	-2.8744	-0.1623	0.4664
Ardea cinerea	4	0.0323	-3.4340	-0.1108	0.3804
Ardea alba	4	0.0323	-3.4340	-0.1108	0.3804
Egretta garzetta	4	0.0323	-3.4340	-0.1108	0.3804
Phalacrocorax carbo	4	0.0323	-3.4340	-0.1108	0.3804
Himantopus himantopus	54	0.4355	-0.8313	-0.3620	0.3009
Tringa totanus	18	0.1452	-1.9299	-0.2801	0.5407
Tringa nebularia	7	0.0565	-2.8744	-0.1623	0.4664
Centropus sinensis	1	0.0081	-4.8203	-0.0389	0.1874
Halcyon smyrnensis	1	0.0081	-4.8203	-0.0389	0.1874
Ceryle rudis	1	0.0081	-4.8203	-0.0389	0.1874
Corvus torquatus	1	0.0081	-4.8203	-0.0389	0.1874
Total	124	1	-43.4569	-1.8454	4.5862
Richness	13				
SS	4.5862				
SQ	3.4056				
H	1.8454				
S^2H	0.00991				

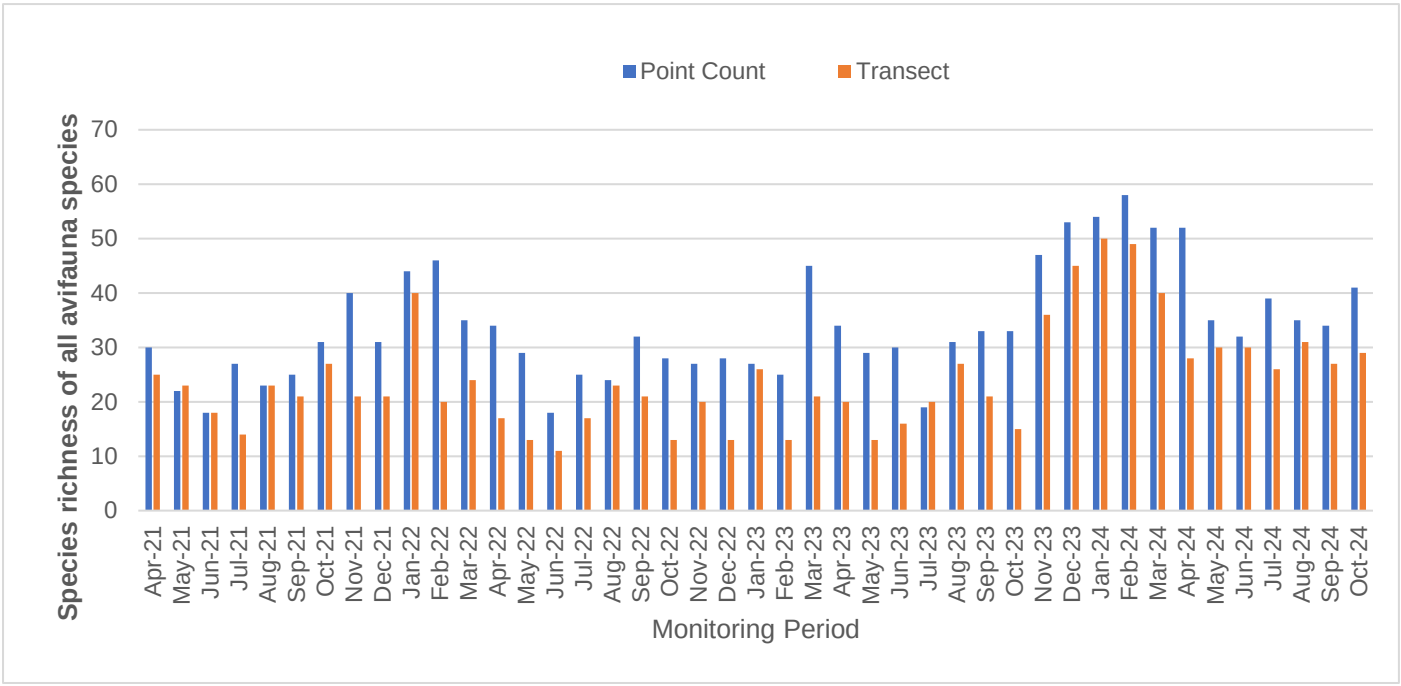
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



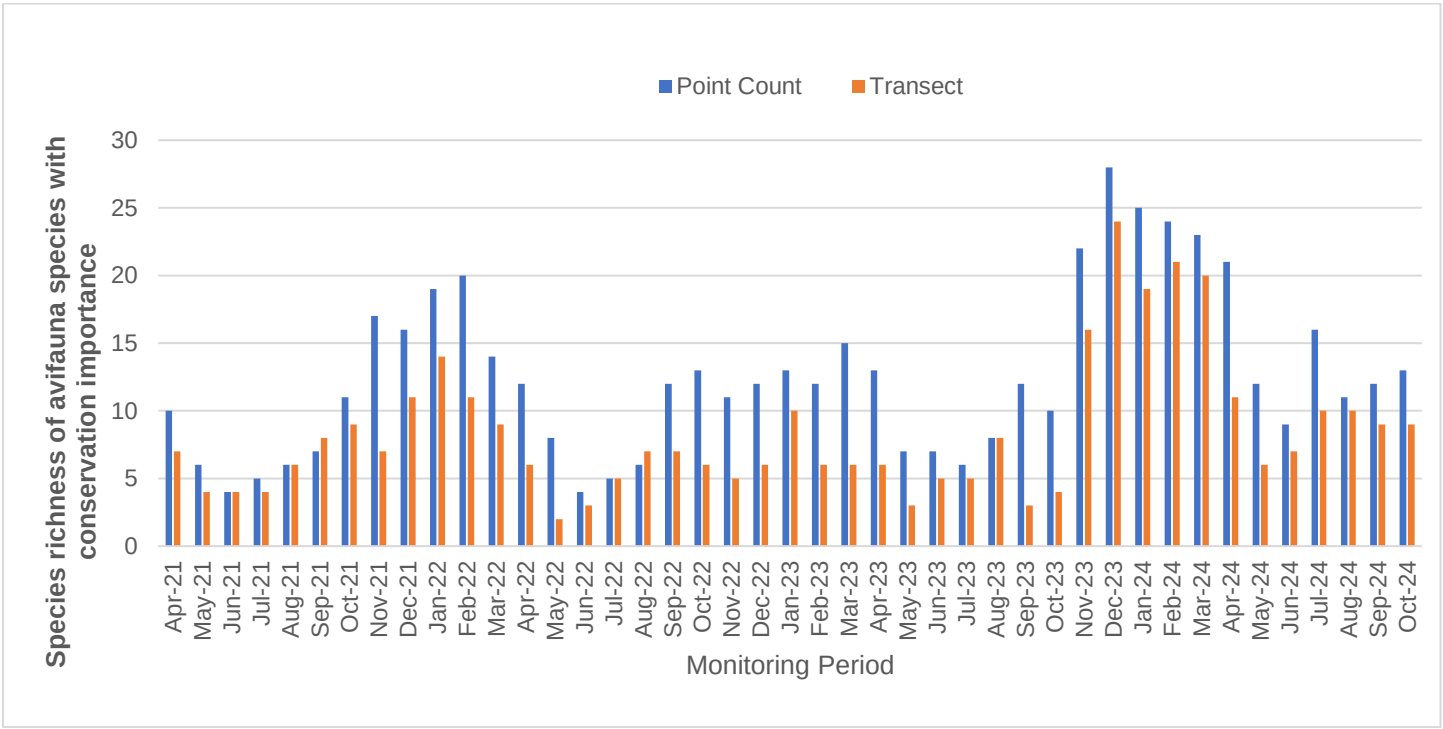
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



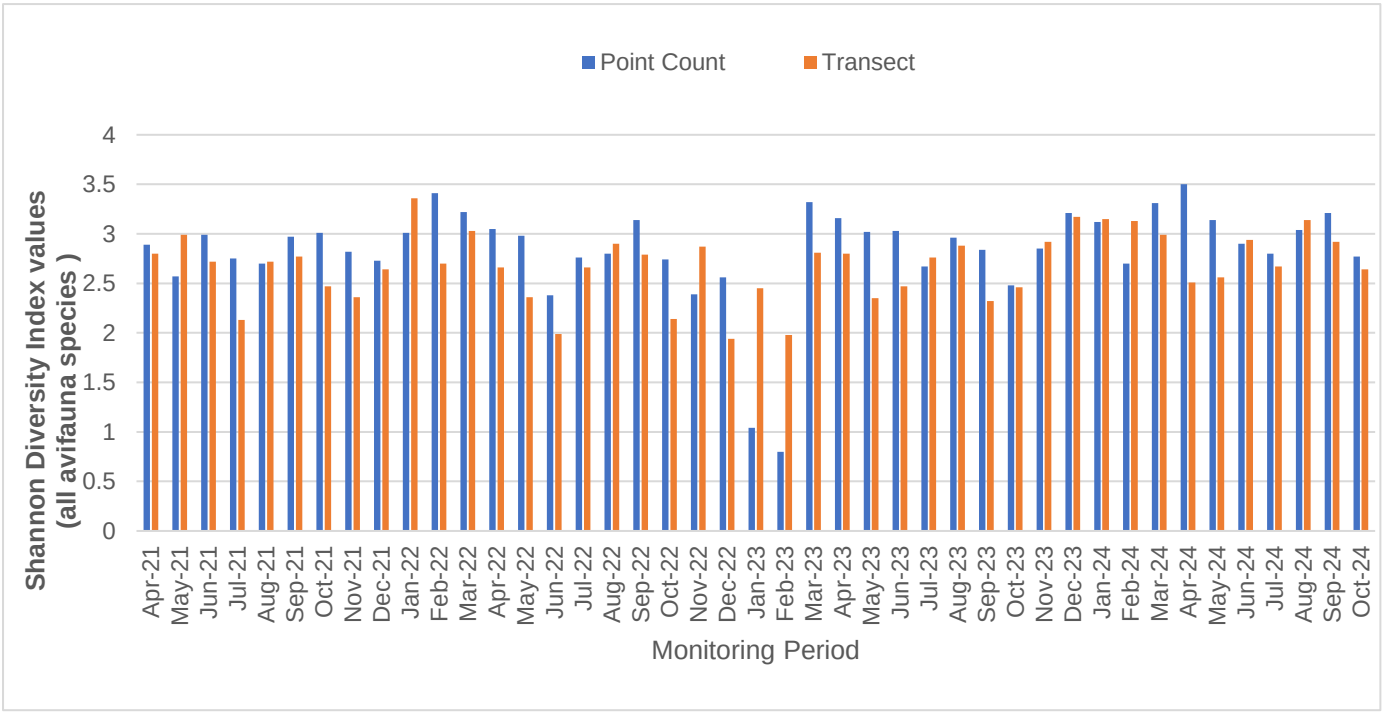
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



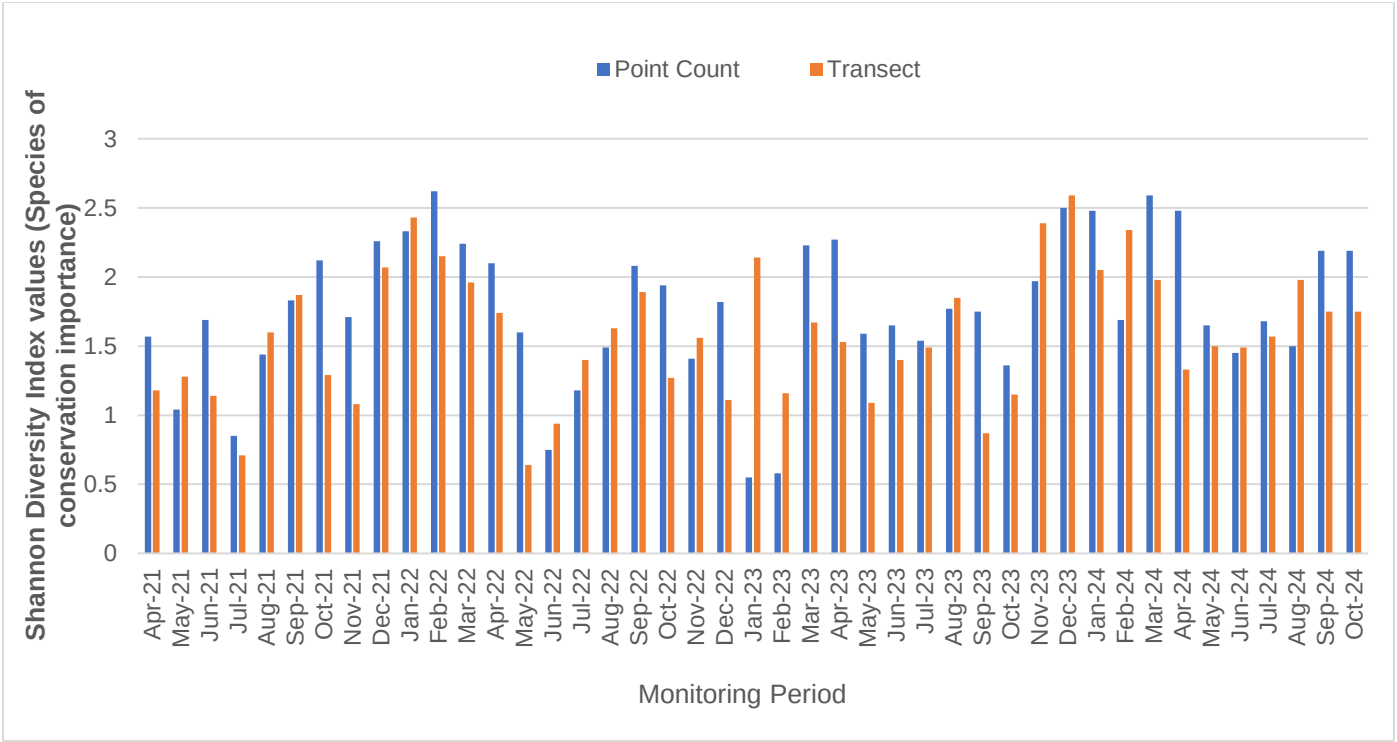
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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:

$$t = \frac{H_a - H_b}{\sqrt{s^2_{H_a} + s^2_{H_b}}}$$

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

Months	October 2016	October 2024
Total	157	521
Richness	32	41
H	2.9312	2.7692
S^2H	0.006421	0.002916
t	1.6773	
df	312.5358	
Crit	1.9676	
p	0.09448	
CI	0.1603	0.1080

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

Months	October 2016	October 2024
Total	51	222
Richness	13	29
H	1.8310	2.6399
S^2H	0.03268	0.006109
t	4.1071	
df	71.2770	
Crit	1.9939	
p	1.05812E-04	
CI	0.3616	0.1563

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

Months	October 2016	October 2024
Total	107	334
Richness	13	17
H	2.1670	2.0023
S^2H	0.005629	0.003285
t	1.7452	
df	241.9424	
Crit	1.9699	
p	0.0822	
CI	0.1501	0.1146

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

Months	October 2016	October 2024
Total	35	124
Richness	3	13
H	0.74669	1.8454
S^2H	0.017580	0.00991
t	6.6267	
df	78.5427	
Crit	1.9908	
p	4.0059E-09	
CI	0.2652	0.1991