

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 7-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
7-Sep-24	C1	Cloudy	15:47	<0.5	Surface	26.1	26.1	7.0	7.0	0.18	0.19	90.2	90.2	7.3	7.3	10.4	10.3	5	5
						26.1		7.0		0.19		90.2		7.3		10.3		5	
	M1	Cloudy	16:02	<0.5	Surface	26.0	26.0	7.2	7.2	0.20	0.20	92.6	92.6	7.5	7.5	14.6	14.7	12	12
						26.0		7.2		0.20		92.6		7.5		14.8		11	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
Action Level	Control	3.8
Limit Level	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
Action Level	Control Station	17.2 12.4 (120% of Control Station)
Limit Level	Control Station	17.7 13.4 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1
Action Level	Control Station	25.0 6 (120% of Control Station)
Limit Level	Control Station	26.0 6.5 (130% of Control Station)

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

Water Quality Monitoring Results on 9-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
9-Sep-24	C1	Cloudy	11:37	<0.5	Surface	26.6	26.6	7.1	7.1	0.25	0.25	84.7	84.7	6.8	6.8	4.2	4.1	<2	<2
						26.6		7.1		0.25		84.7		6.8		4.1		<2	
	M1	Cloudy	11:52	<0.5	Surface	26.2	26.2	7.3	7.3	0.24	0.24	88.4	88.4	7.1	7.1	10.2	10.1	12	13
						26.2		7.4		0.24		88.4		7.1		10.0		14	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
Action Level	Control	3.8
Limit Level	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
Action Level	Control Station	17.2 5.0 (120% of Control Station)
Limit Level	Control Station	17.7 5.4 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
Action Level	Control Station	25.0 2.4 (120% of Control Station)
Limit Level	Control Station	26.0 2.6 (130% of Control Station)

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 2. For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.
- * Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 11-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
11-Sep-24	C1	Sunny	11:03	<0.5	Surface	26.9	26.9	7.1	7.1	0.27	0.27	79.8	79.7	6.4	6.4	3.4	3.4	<2	<2	<2
						26.9		7.1		0.27		79.6		6.3		3.3				
	M1	Sunny	11:16	<0.5	Surface	26.3	26.3	7.3	7.3	0.26	0.26	81.8	81.8	6.6	6.6	8.7	8.6	9	9	9
						26.3		7.3		0.26		81.8		6.6		8.5				

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 4.1 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 4.4 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
<i>Action Level</i>	Control Station	25.0 2.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 2.6 (130% of Control Station)

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

* Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring Results on 13-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)		
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
13-Sep-24	C1	Sunny	11:12	<0.5	Surface	26.4	26.4	7.1	7.0	0.28	0.28	74.8	74.8	6.0	6.0	3.8	3.8	<2	<2	<2
						26.4		7.0		0.28		74.8		6.0		3.8				
	M1	Sunny	11:24	<0.5	Surface	26.1	26.1	7.3	7.3	0.30	0.30	80.1	80.1	6.5	6.5	10.4	10.1	11	11	11
						26.1		7.3		0.30		80.0		6.5		9.8				

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 4.5 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 4.9 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
<i>Action Level</i>	Control Station	25.0 2.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 2.6 (130% of Control Station)

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

* Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 16-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
16-Sep-24	C1	Cloudy	11:36	<0.5	Surface	26.6	26.6	6.9	6.9	0.31	0.31	60.0	60.0	4.8	4.8	5.5	5.5	2	2
						26.6		6.9		0.31		60.0		4.8		5.6		2	
	M1	Cloudy	11:47	<0.5	Surface	26.6	26.6	7.3	7.3	0.33	0.33	75.4	75.4	6.0	6.0	9.4	9.3	9	9
						26.6		7.3		0.33		75.4		6.0		9.2		9	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 6.6 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 7.2 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	25.0 2.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 2.6 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

Water Quality Monitoring Results on 19-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
19-Sep-24	C1	Sunny	10:06	<0.5	Surface	26.9	26.9	7.1	7.1	0.11	0.11	44.3	44.3	3.5	3.5	6.5	6.6	<2	<2
						26.9		7.1		0.11		44.2		3.5		6.6		<2	
	M1	Sunny	10:18	<0.5	Surface	27.1	27.1	7.5	7.5	0.12	0.12	72.7	72.7	5.8	5.8	9.0	9.0	3	3
						27.1		7.5		0.12		72.6		5.8		9.0		2	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 7.9 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 8.5 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
<i>Action Level</i>	Control Station	25.0 2.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 2.6 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.
- * Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 21-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
21-Sep-24	C1	Rainy	11:14	<0.5	Surface	26.9	26.9	7.4	7.4	0.10	0.10	62.7	62.6	5.0	5.0	5.4	5.4	3	3
						26.9		7.4		0.10		62.5		5.0		5.4		2	
	M1	Rainy	11:46	<0.5	Surface	27.0	27.0	6.5	6.5	0.06	0.06	76.9	76.9	6.1	6.1	10.1	10.2	13	14
						27.0		6.5		0.06		76.8		6.1		10.3		14	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 6.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 7.0 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	25.0 3 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 3.3 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

Water Quality Monitoring Results on 23-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
23-Sep-24	C1	Cloudy	11:59	<0.5	Surface	24.9	24.9	7.3	7.3	0.11	0.11	55.0	55.0	4.6	4.6	5.2	5.2	<2	<2
						24.9		7.3		0.11		55.0		4.6		5.2		<2	
	M1	Cloudy	12:11	<0.5	Surface	24.9	24.9	7.5	7.5	0.12	0.12	74.7	74.6	6.2	6.2	5.0	5.0	3	4
						24.9		7.5		0.12		74.5		6.2		5.0		4	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
<i>Action Level</i>	Control	3.8
<i>Limit Level</i>	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
<i>Action Level</i>	Control Station	17.2 6.2 (120% of Control Station)
<i>Limit Level</i>	Control Station	17.7 6.8 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
<i>Action Level</i>	Control Station	25.0 2.4 (120% of Control Station)
<i>Limit Level</i>	Control Station	26.0 2.6 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.
- * Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 25-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
25-Sep-24	C1	Fine	11:26	<0.5	Surface	26.4	26.4	7.3	7.3	0.07	0.07	92.9	92.9	7.5	7.5	2.5	2.5	2	2
						26.4		7.3		0.07		92.9		7.5		2.6			
	M1	Fine	11:42	<0.5	Surface	26.4	26.4	7.5	7.5	0.07	0.07	92.6	92.6	7.5	7.5	4.8	4.8	5	5
						26.4		7.5		0.07		92.6		7.5		4.8			

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
Action Level	Control	3.8
Limit Level	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
Action Level	Control Station	17.2 3.0 (120% of Control Station)
Limit Level	Control Station	17.7 3.3 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1
Action Level	Control Station	25.0 2.4 (120% of Control Station)
Limit Level	Control Station	26.0 2.6 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.

Water Quality Monitoring Results on 27-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
27-Sep-24	C1	Sunny	11:07	<0.5	Surface	27.4	27.4	7.2	7.2	0.07	0.07	88.8	88.8	7.0	7.0	0.6	0.6	<2	<2
						27.4		7.2		0.07		88.7		7.0		0.6			
	M1	Sunny	11:20	<0.5	Surface	26.7	26.7	7.4	7.4	0.08	0.08	87.1	87.1	7.0	7.0	8.0	7.7	9	9
						26.7		7.4		0.08		87.1		7.0		7.3		8	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
Action Level	Control	3.8
Limit Level	Station	3.7

Turbidity (NTU)

Turbidity (NTU) (See Note 2)	C1	M1
Action Level	Control Station	17.2 0.7 (120% of Control Station)
Limit Level	Control Station	17.7 0.7 (130% of Control Station)

Suspended Solid (mg/L)

SS (mg/L) (See Note 2)	C1	M1*
Action Level	Control Station	25.0 2.4 (120% of Control Station)
Limit Level	Control Station	26.0 2.6 (130% of Control Station)

Notes:

- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 - For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.
- * Since the lab result of SS concentration is less than 2 mg/L, 2 mg/L is used in calculating the action and limit levels of SS based on the control station as a conservative approach.

Water Quality Monitoring for Hung Shui Kiu Effluent Polishing Plant Phase 1

Water Quality Monitoring Results on 30-Sep-2024

Date	Station	Weather Condition	Sampling Time	Water Depth (m)	Level	Water Temperature (°C)		pH		Salinity (NTU)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		SS (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
30-Sep-24	C1	Sunny	8:38	<0.5	Surface	26.3	26.3	6.6	6.6	0.09	0.09	60.9	60.9	4.9	4.9	2.7	2.7	3	3
						26.3		6.6		0.09		60.9		4.9		2.7		3	
	M1	Sunny	9:01	<0.5	Surface	26.9	26.9	7.1	7.1	0.10	0.10	72.6	72.5	5.8	5.8	7.0	7.1	10	11
						26.9		7.1		0.10		72.4		5.8		7.1		11	

Remarks:

* ***Bold Italic*** means Action Level exceedance

** ***Bold Italic with underline*** means Limit Level exceedance

Dissolved Oxygen (mg/L)

DO (mg/L) (See Note 1)	C1	M1
Action Level	Control Station	3.8
Limit Level	Control Station	3.7

Turbidity (NTU)

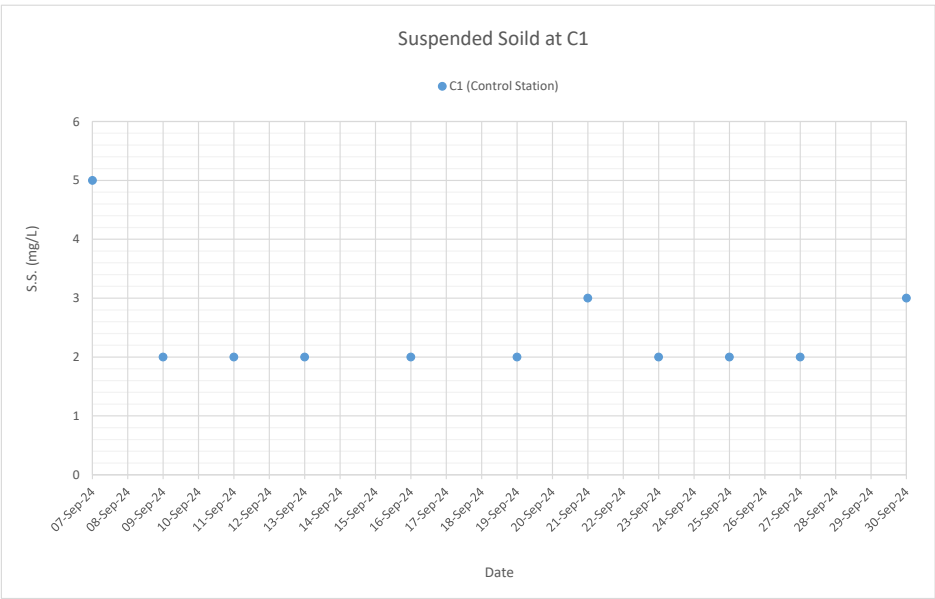
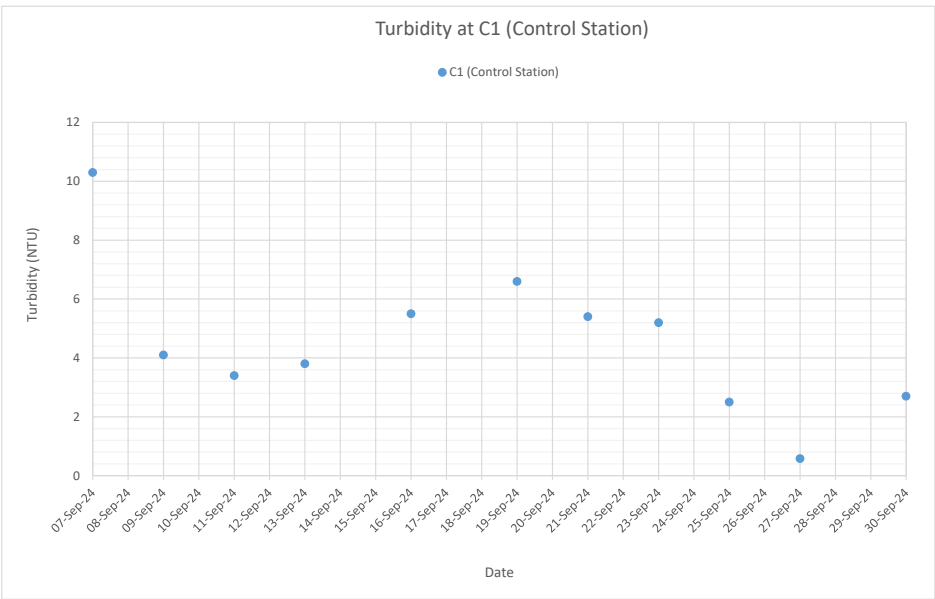
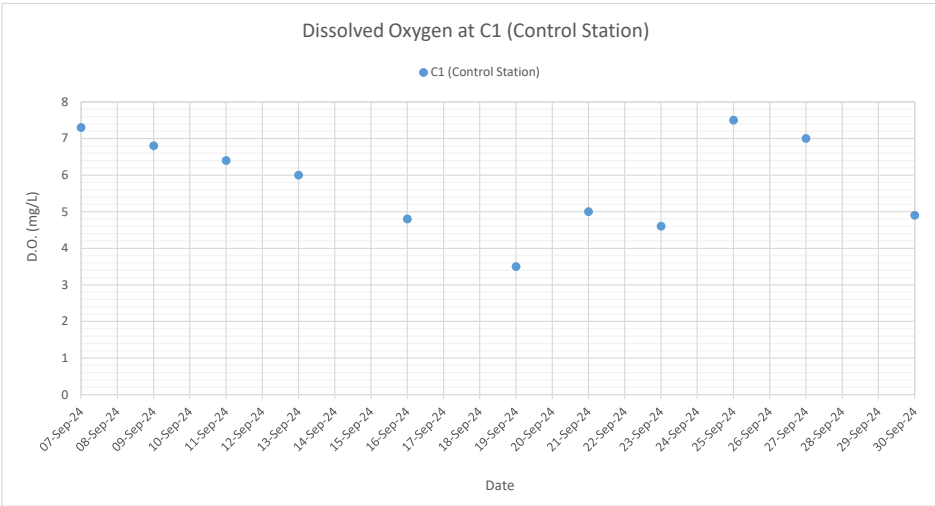
Turbidity (NTU) (See Note 2)	C1	M1
Action Level	Control Station	17.2
		3.3 (120% of Control Station)
Limit Level	Control Station	17.7
		3.5 (130% of Control Station)

Suspended Solid (mg/L)

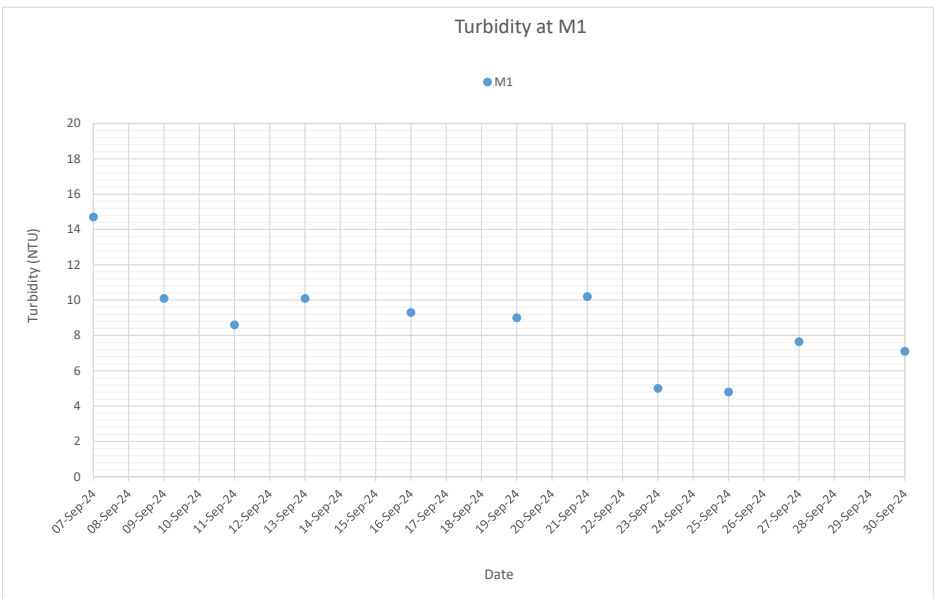
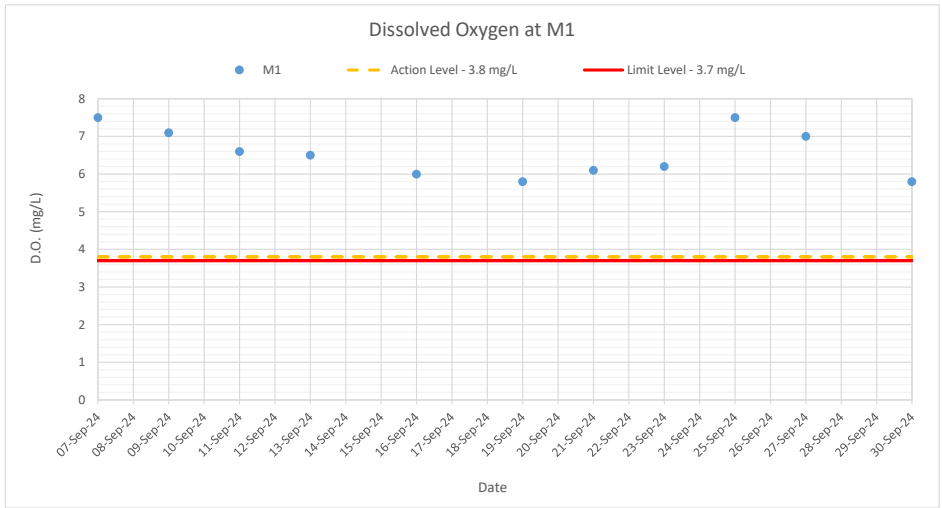
SS (mg/L) (See Note 2)	C1	M1
Action Level	Control Station	25.0
		3.6 (120% of Control Station)
Limit Level	Control Station	26.0
		3.9 (130% of Control Station)

Notes:

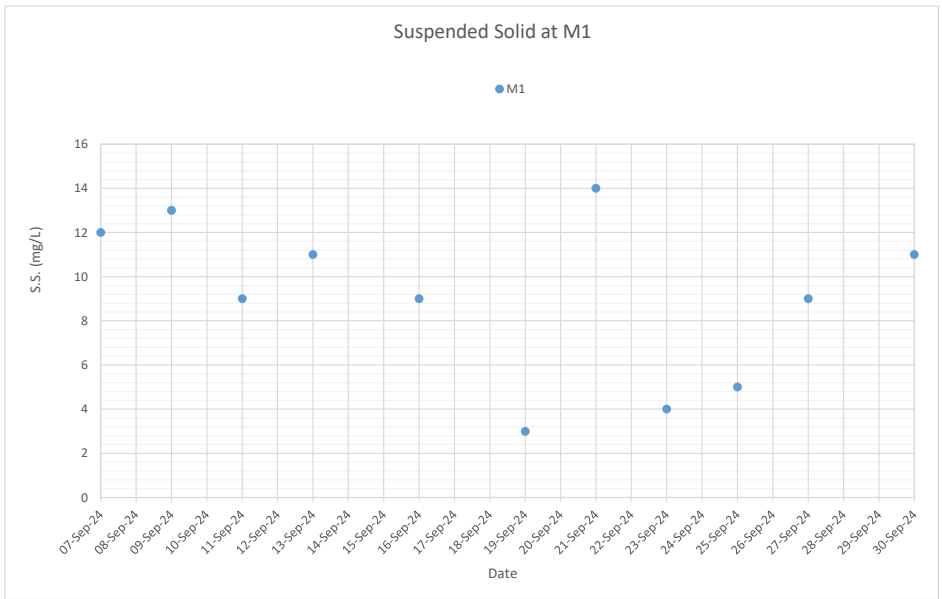
1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity and S.S., non-compliance of the water quality occurs when monitoring results is higher than the limits.



Note: The suspended solids measured on 9,11, 13, 19, 23, and 27 Sep 2024 are less than 2 mg/L.



Note: The Action and Limit Level of turbidity can be referred to Table 3.4 of the monthly EM&A report.



Note: The Action and Limit Level of Suspended Solid can be referred to Table 3.4 of the monthly EM&A report.