

**GOWANUS CANAL SUPERFUND SITE  
RTA2 REMEDIAL CONSTRUCTION  
Water Quality Monitoring Weekly Data Summary**

**PERIOD: October 28, 2024 – November 1, 2024**

**Date of Report: November 5, 2024**

## **Report Contents**

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- Turbidity Buoy Data
- Summary of Visual Observations

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## 1. SCOPE OF MONITORING

### 1.1 Buoy Locations

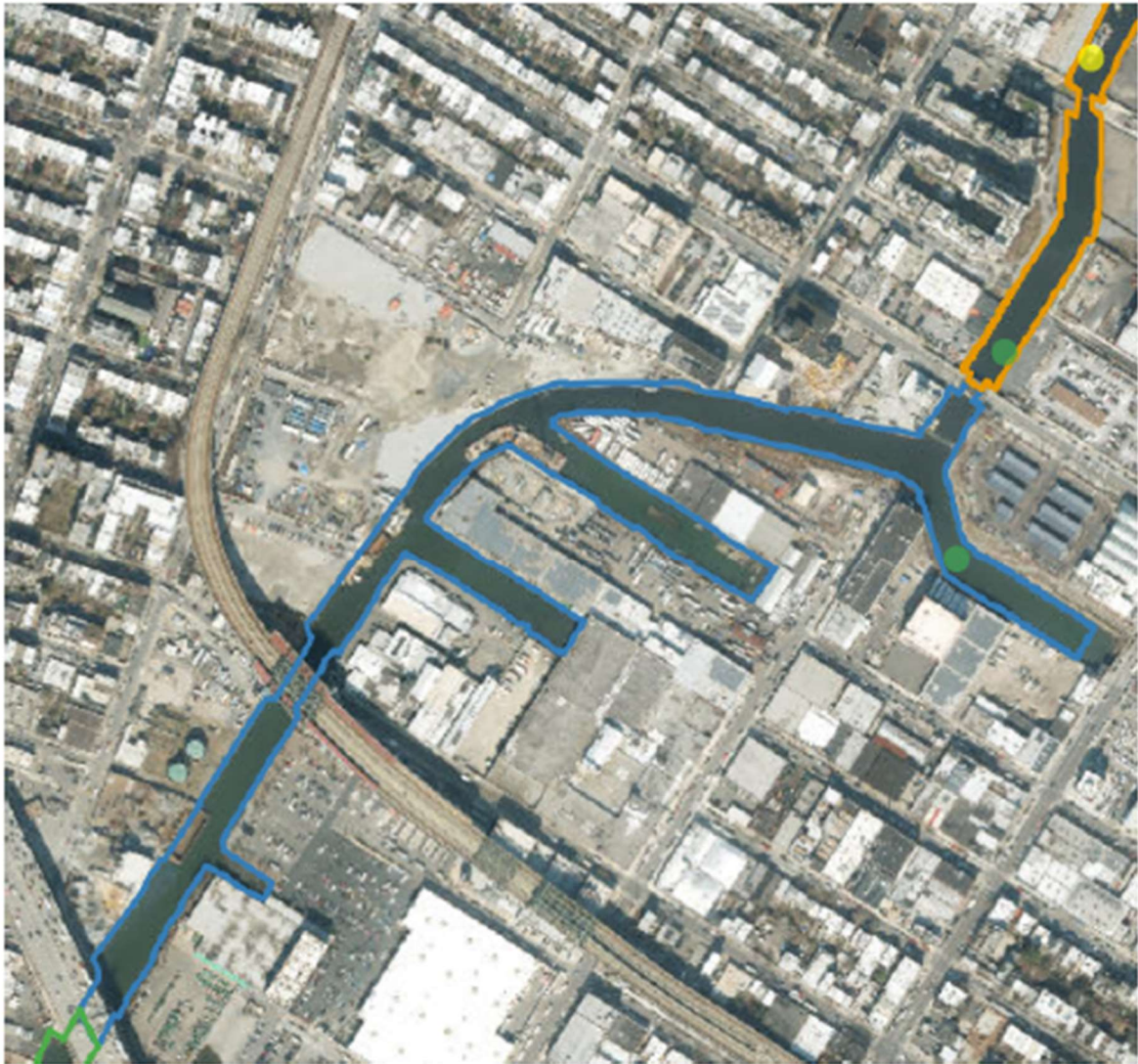
In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) issued March 27, 2024, buoys equipped with multi-parameter water quality sondes, were deployed to monitor turbidity related to RTA2 construction activities. Buoys were deployed in the Fourth Street Turning Basin (TB4) to monitor background turbidity unaffected by in-water construction activities and at the North Carroll Street Bridge, which is referred to as the ambient buoy. A sentinel buoy was deployed north of 3<sup>rd</sup> Street Bridge (3SB), along the west bulkhead. These buoys (Figure 1) are in use to monitor the RTA2 pre-construction activities.

All readings from buoys were transmitted via telemetry at 15-minute intervals. The instrument used to collect turbidity from the buoys is an In-Situ VuLink (telemetry) and AquaTroll500 (sonde), equipped with optical sensors capable of reading turbidity levels with an accuracy of +/- 0.5 NTU.

### 1.2 Summary of Monitoring Adjustments during Construction

- August 9, 2024, after the conclusion of RTA1 WQMP, two additional buoys were added to the RTA2 WQMP, for a total of three sentinel buoys. The ambient buoy was moved to approximately ten meters north of Carroll Street Bridge, on the west side of the canal (ambient). A sentinel buoy was placed approximately twenty meters north of 3<sup>rd</sup> Street Bridge on the west side (3SB). A sentinel buoy was placed in Fourth Street Turning Basin (TB4). The 9<sup>th</sup> Street Bridge sentinel buoy (9SB) was not moved.
- To reduce instrument downtime, the 9th Street Bridge sentinel buoy (9SB) was relocated to the northeast side of the 9th Street Bridge on August 19, 2024. After two days of data collection, elevated turbidity readings were observed both during and outside of work hours. Consequently, on August 21, 2024, the buoy was moved again, this time to the northeast corner of the Hamilton Street Bridge.
- Turbidity readings at the Hamilton Street Bridge location exceeded 100 NTU both during and outside working hours. However, these readings were not representative of the actual turbidity within the RTA2 work area. Due to commercial traffic, a safe location for the sonde and buoy could not be found south of the 9th Street Bridge. Consequently, the sonde and buoy were relocated to the west side, 5 meters north of the 9th Street Bridge on Tuesday, August 27, 2024, at 08:15.
- Turbidity readings at 9SB were noted to be erratic and exceed 100 NTU both during and outside working hours. The buoy was moved approximately 20 meters north of 9<sup>th</sup> Street Bridge on Monday, September 9, 2024.
- On September 16, 2024, the 9SB was deselected from construction monitoring, as there are no construction activities in the main canal or in the vicinity of 9<sup>th</sup> Street Bridge. The

buoy will remain in the water to collect background data as it is believed this area has naturally high NTU readings. A spot check zero calibration was performed on the buoy on Wednesday, September 18, 2024 to confirm the sensors were reading properly during this background monitoring period.



**Legend**

- Ambient Buoy
- Sentinel Buoy
- RTA1
- RTA2
- RTA3

300 150 0 300  
Feet

**RTA2 Buoy Locations**

Gowanus Canal, Brooklyn, NY

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Figure

1

Brooklyn, NY

September 16, 2024

K:\BIB\_C&E\141930\Canal\_Maps\

### 1.3 Current Reporting Period Scope of Monitoring

During the week of October 28, 2024, three buoys equipped with multi-parameter water quality sondes were deployed as described in Section 1.2.

All readings from buoys were transmitted via telemetry at 15-minute intervals. The instrument used to collect turbidity and DO from the buoys is an In-Situ VuLink (telemetry) and AquaTroll500 (sonde), equipped with optical sensors capable of reading turbidity levels with an accuracy of +/-0.5 NTU and DO levels with an accuracy of +/-0.1 mg/L.

Visual observations of turbidity and sheen are summarized in Section 5.

### 1.4 Meteorological Conditions

The weather conditions onsite were as follows:

Table 1 - Summary of Weather Conditions for reporting period.

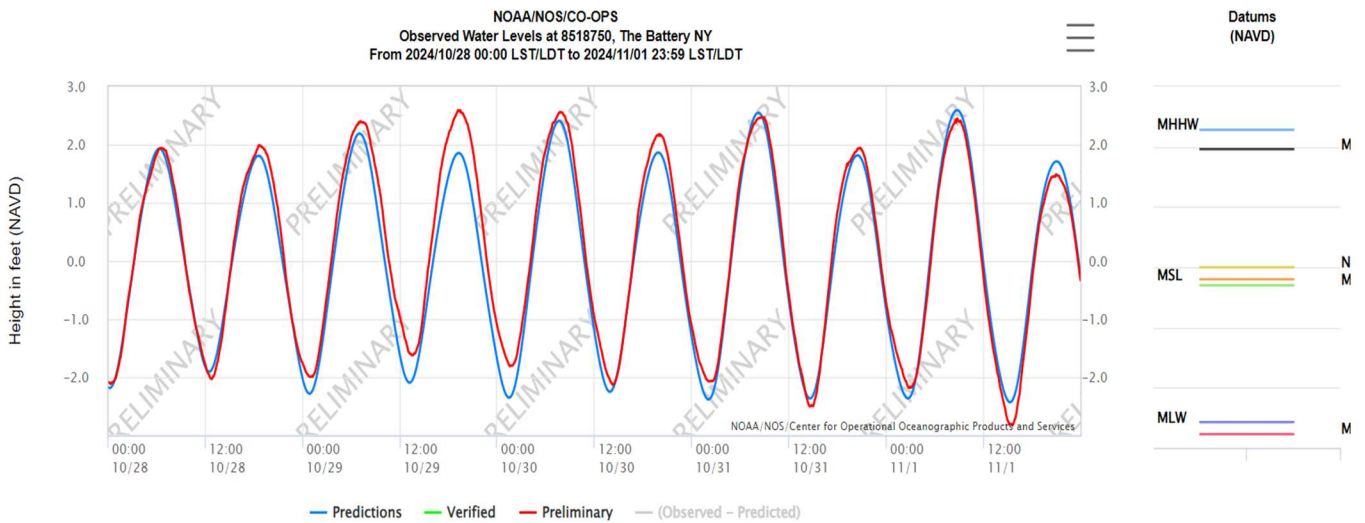
Meteorological Parameters	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/01/2024
<i>Wind Direction (from)</i>	SSW	SSE	SW	SW	WSW
<i>Wind Speed (mph)</i>	4.0	5.4	5.3	6.2	10.4
<i>Temperature (°F)</i>	53.6	58.4	65.0	69.2	69.3
<i>Humidity (%)</i>	52.7	81.1	74.3	68.6	55.1
<i>Barometric Pressure (inHg)</i>	30.32	30.34	30.20	30.01	29.88
<i>Precipitation (Inch)</i>	0	0	0	0	0

## 1.5 Tidal Conditions

Tidal data from the Battery (National Oceanic and Atmospheric Administration [NOAA] Station 8518750) was reviewed and is summarized as follows:

Date	Time (LST/LDT)	Predicted (ft)	Preliminary (ft)	High/Low
10/28/2024	0:09	-2.19	-2.11	L
10/28/2024	6:17	1.93	1.94	H
10/28/2024	12:25	-1.91	-2.02	L
10/28/2024	18:31	1.81	1.98	H
10/29/2024	0:48	-2.28	-1.94	L
10/29/2024	6:58	2.19	2.38	H
10/29/2024	13:09	-2.09	-1.62	L
10/29/2024	19:12	1.86	2.55	H
10/30/2024	1:25	-2.35	-1.75	L
10/30/2024	7:36	2.41	2.56	H
10/30/2024	13:51	-2.25	-2.13	L
10/30/2024	19:49	1.86	2.15	H
10/31/2024	2:01	-2.38	-2.07	L
10/31/2024	8:10	2.55	2.46	H
10/31/2024	14:32	-2.37	-2.48	L
10/31/2024	20:24	1.82	1.93	H
11/1/2024	2:37	-2.36	-2.18	L
11/1/2024	8:41	2.59	2.42	H
11/1/2024	15:13	-2.43	-2.81	L
11/1/2024	20:57	1.71	1.45	H

**Table 2** - NOAA Preliminary observations and predictions.



**Figure 2 - Tidal Chart for reporting period.**

## 2. REPORT OF EXCEEDANCES

No exceedances of the trigger and action criteria were observed during the reporting period due to construction activities. Momentary exceedances to the trigger action criterion were recorded on Monday, October 28 between 16:15 and 16:30 and Thursday October 31, between 13:00 and 13:45 at sentinel sonde in Turning Basin 4. These momentary exceedances were not sustained over a one-hour period and coincide with barge movement prop wash within 50 feet of the monitor and have been excluded.

Turbidity and floatables were observed throughout the reporting period unrelated to construction activities.

- **Trigger criterion** – Any of the following:
  - The rolling average of the relevant sentinel buoy turbidity measurements over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 20 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or
  - Either an oil sheen or a turbidity plume is visually observed at the relevant sentinel buoy and in-waterway construction activities are readily identified as the source.
- **Action criterion** – Any of the following:
  - The rolling average of the turbidity measurements of the sentinel buoy outside of RTA2 over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 40 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or

- Either an oil sheen or a turbidity plume is visually observed outside of RTA2, and any deployed engineering controls and in-waterway construction activities are readily identified as the source.

An outlier is defined as a reading that is outside the range of 50 to 200 percent of the average of the three previous readings. In addition, to be considered an outlier, the subsequent reading must return to a range of 75 to 133 percent of the average of the three readings preceding the outlier.

## **2.1 Response to Criteria Exceedances**

The trigger level criterion serves to provide early notification to the contractor of construction activities that may lead to an exceedance of the action level criterion. In the event of an exceedance to the trigger criterion, the contractor will not be stopped, and the contractor will be directed to investigate the source of the exceedance and evaluate Best Management Practices (BMPs). In the event of an exceedance to the action level criterion, in-waterway construction activities may be slowed or temporarily suspended as necessary while the contractor investigates the source of the exceedance and appropriate mitigation, and corrective measures are determined. A more detailed description of responses to exceedances of the trigger and action level criteria is provided in Section 4.2 of the WQMP.

## **3. TURBIDITY BUOY DATA**

Throughout the reporting period, readings at the Ambient, TB4, and 3SB sondes remained relatively stable.



### 3.1 Monday, October 28, 2024

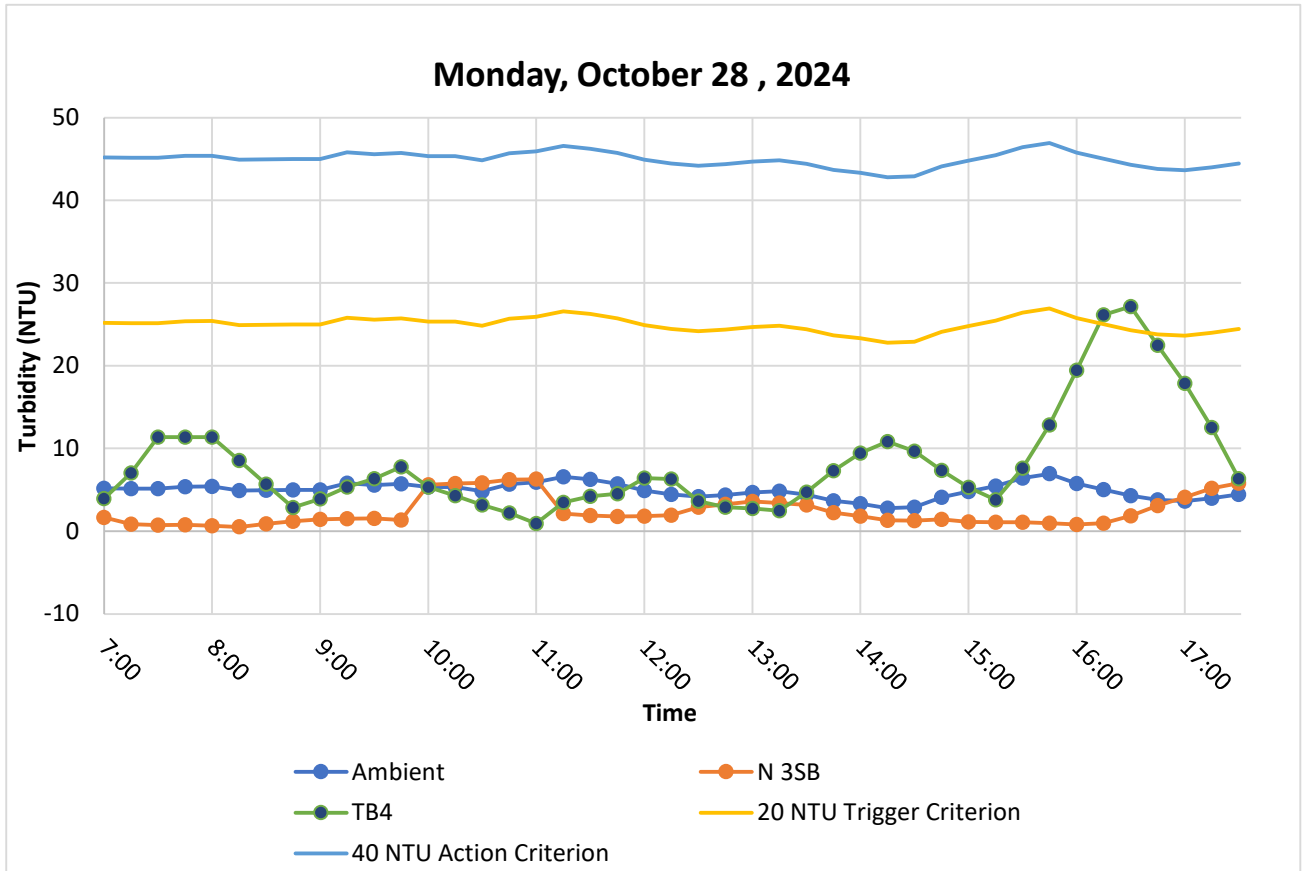


Figure 3. Hourly rolling average turbidity readings from 07:00 to 17:30. Momentary exceedance to trigger action due to prop wash near TB4 sonde.

3.2 Tuesday, October 29, 2024

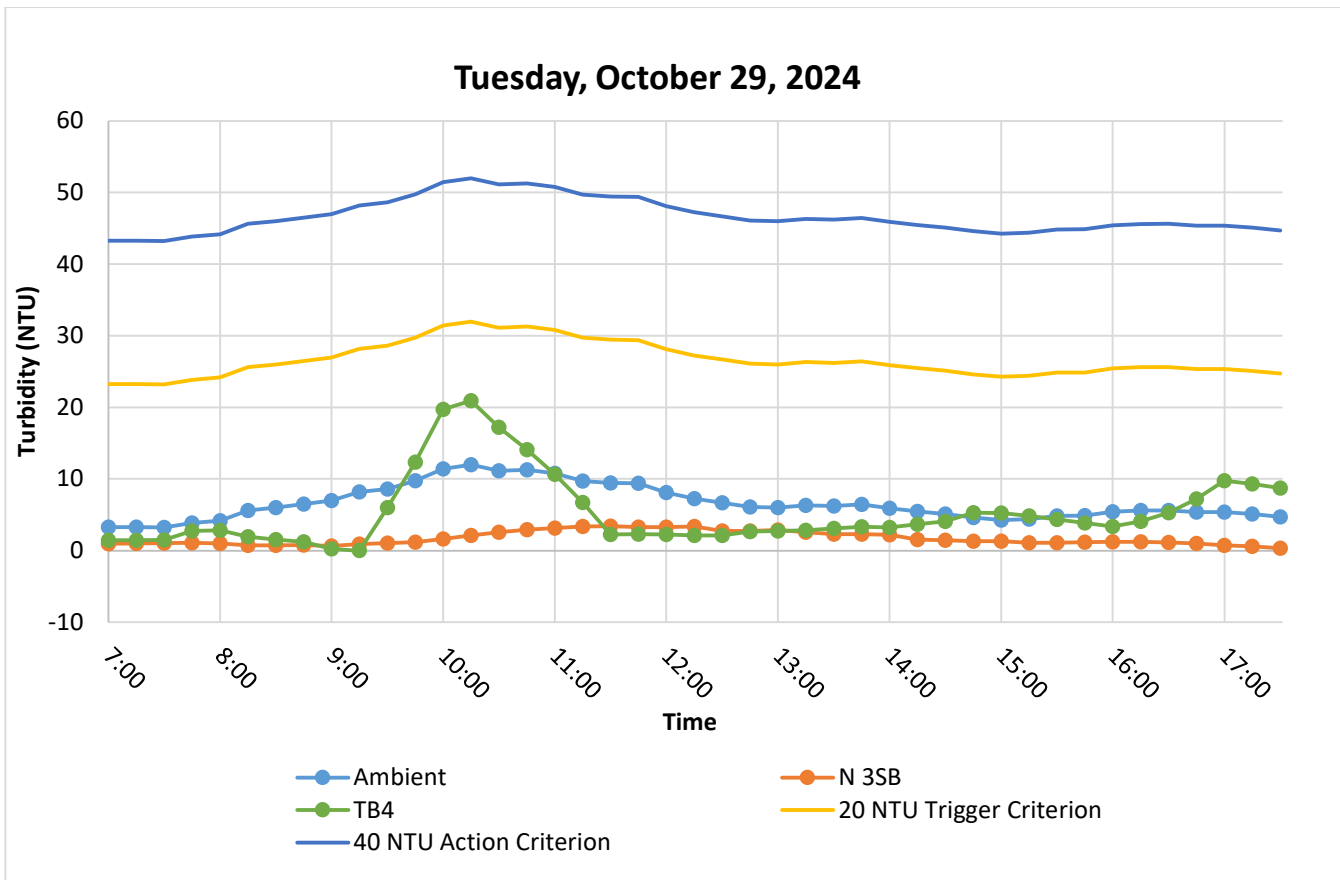
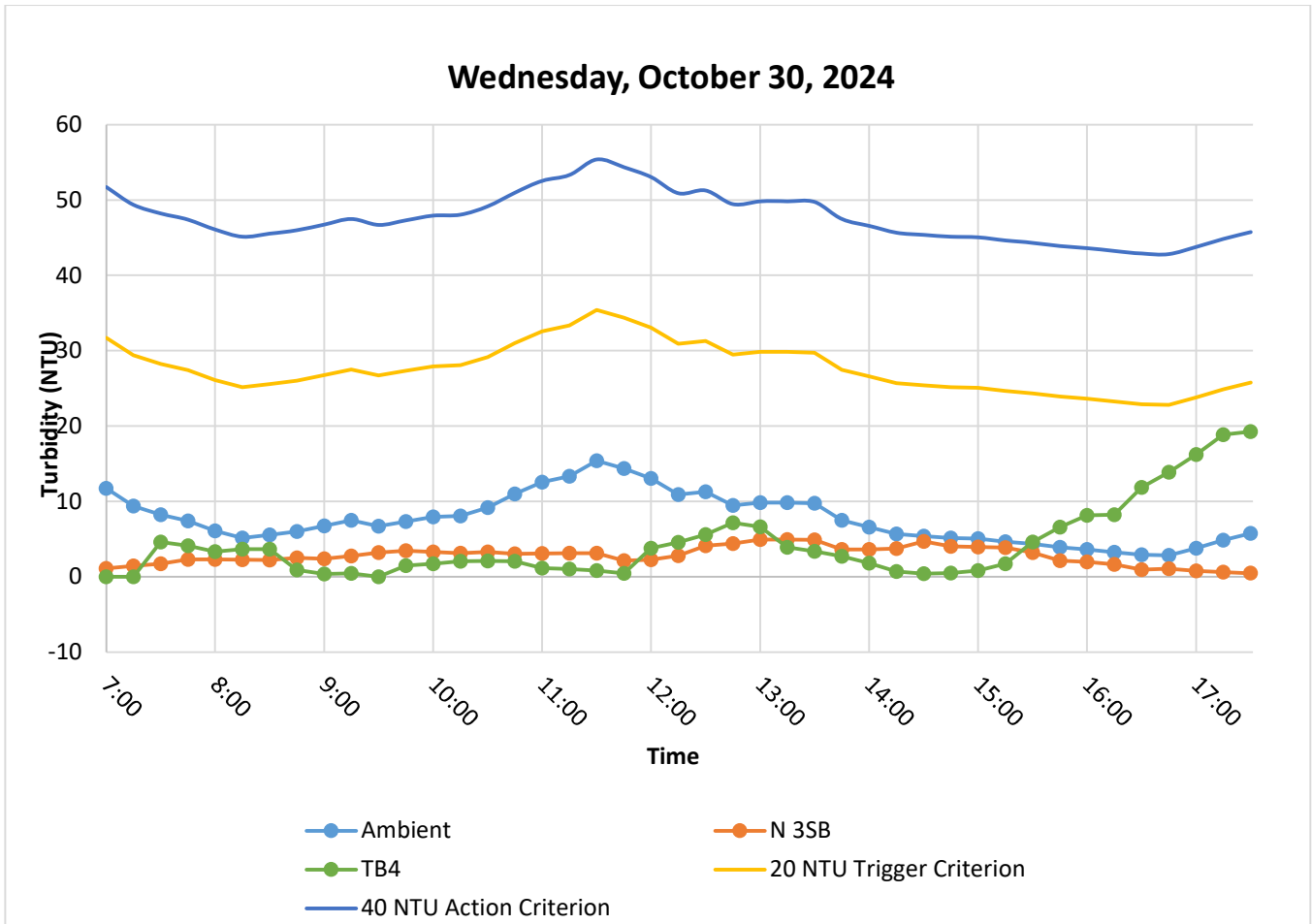


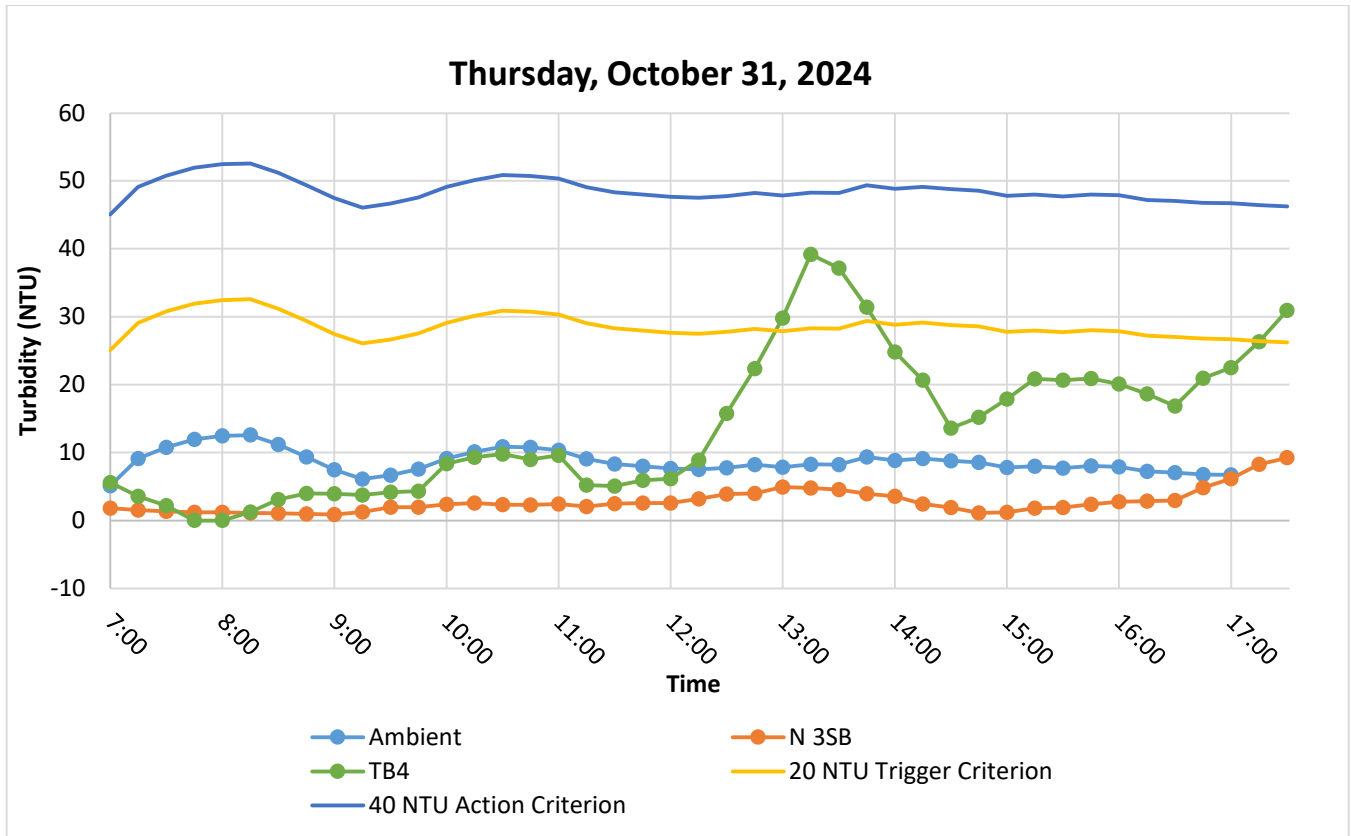
Figure 4. Hourly rolling average turbidity readings from 07:00 to 17:30

3.3 Wednesday, October 30, 2024



**Figure 5.** Hourly rolling average turbidity readings from 07:00 to 17:30

### 3.4 Thursday, October 31, 2024



**Figure 6.** Hourly rolling average turbidity readings from 07:00 to 17:30. Momentary exceedance to trigger action due to prop wash near TB4 sonde.

3.5 Friday, November 1, 2024

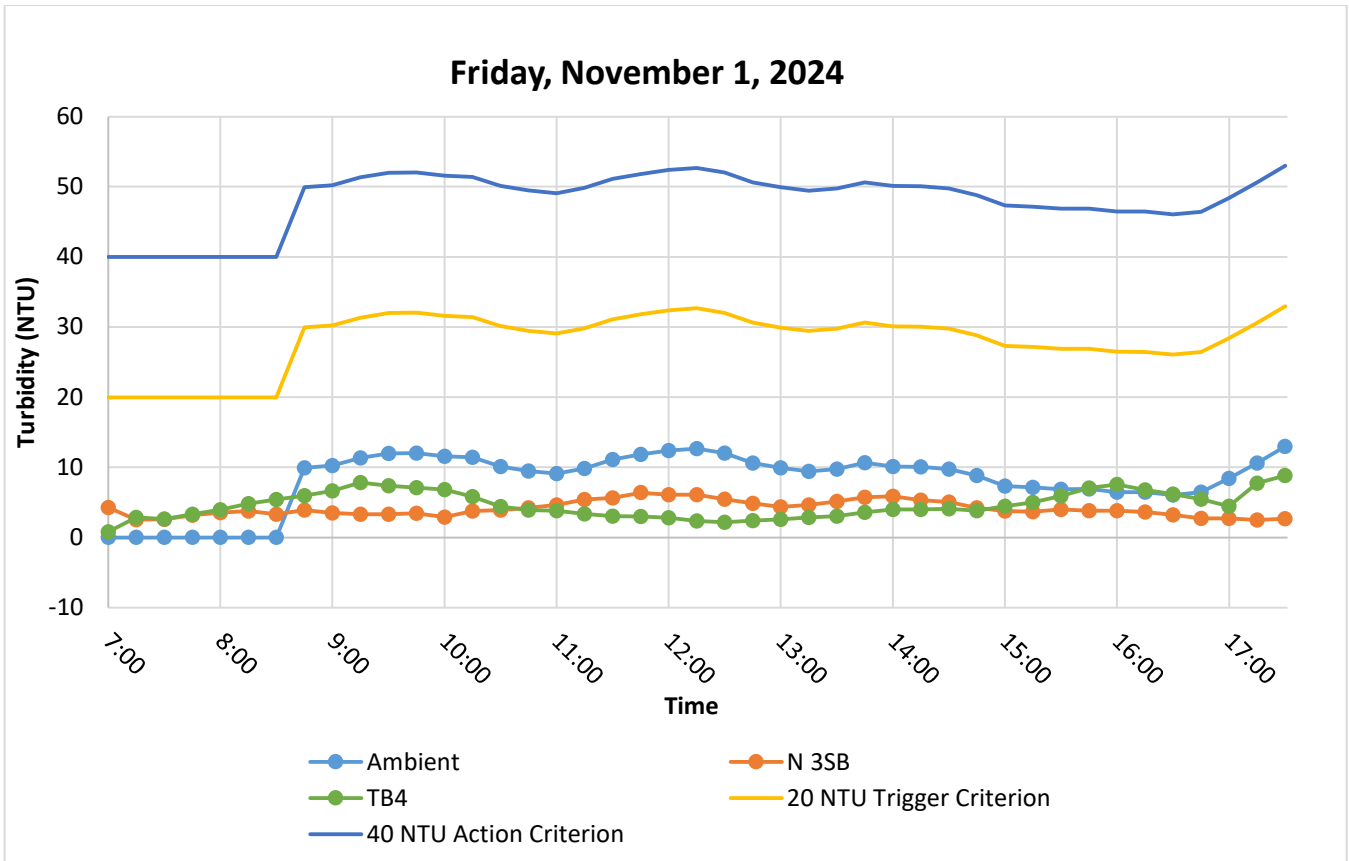


Figure 7. Hourly rolling average turbidity readings from 07:00 to 17:30.

#### 4. SUMMARY OF VISUAL OBSERVATIONS

Throughout the reporting period, sheens in the RTA2 areas ranged from minimal to moderate. During work activities, one turbidity curtain was deployed in the Turning Basin 4.

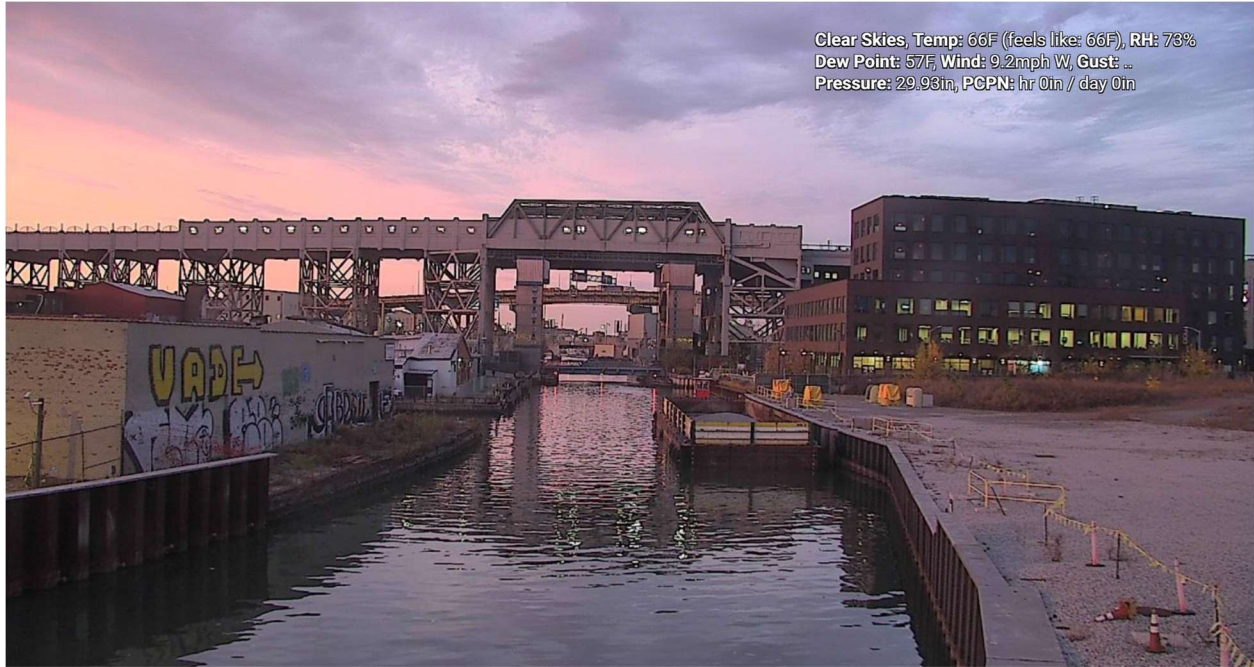


**Figure 8 – October 28, 2024.** General Conditions in Canal looking towards 9<sup>th</sup> Street Bridge prior to work activities. Slight sheen noted.



**Figure 9– October 30, 2024.** General Conditions in Canal south of 3<sup>rd</sup> Street Bridge during work activities at midmorning.





**Figure 10 – November 1, 2024.** General Conditions in Canal looking towards 9<sup>th</sup> Street Bridge prior to work activities.

**APPENDIX A**  
**Turbidity Data Tables**



Table 3

Monday, Oct 28, 2024

Date	Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	Ambient	N3SB	TB4	N3SB - Ambient	TB4 - Ambient
10/28/2024	7:00:00	6.22	0.71	14.39	5.16	1.64	3.91	-3.52	-1.25
10/28/2024	7:15:00	4.14	0.65	15.52	5.13	0.84	7.02	-4.28	1.89
10/28/2024	7:30:00	6.19	0.30	26.95	5.12	0.72	11.37	-4.41	6.25
10/28/2024	7:45:00	5.82	0.95	0.00	5.38	0.76	11.37	-4.62	6.00
10/28/2024	8:00:00	4.54	--	0.00	5.38	0.65	11.37	-4.73	5.99
10/28/2024	8:15:00	3.73	0.18	0.18	4.88	0.52	8.53	-4.36	3.65
10/28/2024	8:30:00	4.38	2.00	1.26	4.93	0.86	5.68	-4.07	0.75
10/28/2024	8:45:00	6.43	1.60	12.83	4.98	1.18	2.85	-3.80	-2.13
10/28/2024	9:00:00	5.81	1.83	5.17	4.98	1.40	3.89	-3.57	-1.09
10/28/2024	9:15:00	8.51	1.90	7.13	5.77	1.50	5.32	-4.27	-0.46
10/28/2024	9:30:00	2.64	0.23	5.33	5.55	1.51	6.34	-4.04	0.79
10/28/2024	9:45:00	5.10	1.16	8.30	5.70	1.35	7.75	-4.35	2.05
10/28/2024	10:00:00	4.59	22.92	0.65	5.33	5.61	5.32	0.28	-0.01
10/28/2024	10:15:00	5.78	2.49	0.00	5.32	5.74	4.28	0.42	-1.04
10/28/2024	10:30:00	6.02	2.23	1.55	4.82	5.81	3.16	0.98	-1.66
10/28/2024	10:45:00	6.90	2.29	0.41	5.68	6.22	2.18	0.54	-3.49
10/28/2024	11:00:00	6.26	1.51	2.01	5.91	6.29	0.92	0.38	-4.99
10/28/2024	11:15:00	7.87	--	13.30	6.56	2.13	3.45	-4.44	-3.11
10/28/2024	11:30:00	4.12	1.55	3.73	6.23	1.89	4.20	-4.34	-2.03
10/28/2024	11:45:00	3.39	1.65	3.03	5.71	1.75	4.50	-3.96	-1.21
10/28/2024	12:00:00	2.82	2.43	9.88	4.89	1.79	6.39	-3.11	1.50
10/28/2024	12:15:00	3.94	2.06	1.48	4.43	1.92	6.28	-2.50	1.86
10/28/2024	12:30:00	6.56	6.73	0.00	4.17	2.89	3.62	-1.28	-0.54
10/28/2024	12:45:00	5.15	3.26	0.13	4.37	3.23	2.90	-1.14	-1.47
10/28/2024	13:00:00	4.85	3.41	2.23	4.66	3.58	2.74	-1.09	-1.92
10/28/2024	13:15:00	3.66	1.47	8.53	4.83	3.38	2.47	-1.45	-2.36
10/28/2024	13:30:00	1.67	0.92	12.71	4.38	3.16	4.72	-1.22	0.34
10/28/2024	13:45:00	2.89	2.11	12.81	3.65	2.23	7.28	-1.41	3.64
10/28/2024	14:00:00	3.58	1.19	10.88	3.33	1.82	9.43	-1.51	6.10
10/28/2024	14:15:00	2.08	0.72	9.12	2.78	1.28	10.81	-1.50	8.03
10/28/2024	14:30:00	4.29	1.41	2.77	2.90	1.27	9.66	-1.63	6.76
10/28/2024	14:45:00	7.54	1.56	1.03	4.08	1.40	7.32	-2.68	3.25
10/28/2024	15:00:00	6.45	0.62	2.62	4.79	1.10	5.28	-3.69	0.50
10/28/2024	15:15:00	6.81	--	3.43	5.44	1.08	3.79	-4.36	-1.64
10/28/2024	15:30:00	6.90	0.72	28.19	6.40	1.08	7.61	-5.32	1.21
10/28/2024	15:45:00	6.99	0.98	28.96	6.94	0.97	12.85	-5.97	5.91
10/28/2024	16:00:00	1.60	0.91	34.09	5.75	0.81	19.46	-4.95	13.71
10/28/2024	16:15:00	2.68	1.17	35.99	5.00	0.95	26.13	-4.05	21.13
10/28/2024	16:30:00	3.23	5.37	8.53	4.28	1.83	27.15	-2.45	22.87
10/28/2024	16:45:00	4.39	7.06	4.71	3.78	3.10	22.46	-0.68	18.68
10/28/2024	17:00:00	6.14	5.99	6.03	3.61	4.10	17.87	0.49	14.26
10/28/2024	17:15:00	3.39	6.29	7.41	3.96	5.17	12.53	1.21	8.57
10/28/2024	17:30:00	4.93	4.22	4.86	4.42	5.78	6.31	1.37	1.89

Table 4

Tuesday, Oct 29, 2024

Date	Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	Ambient	N3SB	TB4	N3SB - Ambient	TB4 - Ambient
10/29/24	7:00:00	2.95	1.66	3.66	3.26	0.94	1.42	-2.32	-1.84
10/29/24	7:15:00	--	1.10	--	3.26	0.97	1.42	-2.29	-1.84
10/29/24	7:30:00	3.23	0.76	1.64	3.23	1.03	1.47	-2.19	-1.75
10/29/24	7:45:00	5.72	--	5.11	3.82	1.08	2.75	-2.75	-1.08
10/29/24	8:00:00	4.75	0.38	0.94	4.16	0.97	2.84	-3.19	-1.32
10/29/24	8:15:00	8.73	0.70	0.00	5.61	0.73	1.92	-4.87	-3.69
10/29/24	8:30:00	7.45	1.09	0.00	5.98	0.73	1.54	-5.25	-4.44
10/29/24	8:45:00	5.74	0.96	0.00	6.48	0.78	1.21	-5.70	-5.27
10/29/24	9:00:00	8.14	0.00	--	6.96	0.63	0.23	-6.34	-6.73
10/29/24	9:15:00	10.74	1.64	--	8.16	0.88	0.00	-7.28	-8.16
10/29/24	9:30:00	10.93	1.52	17.91	8.60	1.04	5.97	-7.56	-2.63
10/29/24	9:45:00	13.07	1.66	19.08	9.72	1.16	12.33	-8.57	2.60
10/29/24	10:00:00	14.21	3.22	22.17	11.42	1.61	19.72	-9.81	8.30
10/29/24	10:15:00	10.99	2.40	24.52	11.99	2.09	20.92	-9.90	8.93
10/29/24	10:30:00	6.42	4.06	2.42	11.12	2.57	17.22	-8.55	6.10
10/29/24	10:45:00	11.65	3.15	2.17	11.27	2.90	14.07	-8.37	2.81
10/29/24	11:00:00	10.68	2.90	2.01	10.79	3.14	10.66	-7.64	-0.13
10/29/24	11:15:00	8.85	4.16	2.31	9.72	3.33	6.69	-6.39	-3.03
10/29/24	11:30:00	9.60	2.76	--	9.44	3.41	2.23	-6.03	-7.21
10/29/24	11:45:00	6.10	3.35	2.57	9.38	3.26	2.27	-6.11	-7.11
10/29/24	12:00:00	5.30	3.21	1.98	8.11	3.28	2.22	-4.83	-5.89
10/29/24	12:15:00	6.28	3.26	1.53	7.23	3.35	2.10	-3.88	-5.13
10/29/24	12:30:00	6.03	0.96	2.30	6.66	2.71	2.10	-3.95	-4.57
10/29/24	12:45:00	6.73	2.77	4.78	6.09	2.71	2.63	-3.38	-3.46
10/29/24	13:00:00	5.50	4.14	3.05	5.97	2.87	2.73	-3.10	-3.24
10/29/24	13:15:00	6.98	1.69	2.34	6.30	2.57	2.80	-3.74	-3.50
10/29/24	13:30:00	5.77	1.81	2.95	6.20	2.28	3.09	-3.93	-3.12
10/29/24	13:45:00	7.17	1.10	3.50	6.43	2.30	3.33	-4.13	-3.10
10/29/24	14:00:00	4.07	2.23	4.15	5.89	2.20	3.20	-3.70	-2.70
10/29/24	14:15:00	3.37	0.73	5.46	5.47	1.51	3.68	-3.96	-1.79
10/29/24	14:30:00	5.17	1.31	4.38	5.11	1.44	4.09	-3.67	-1.02
10/29/24	14:45:00	3.19	1.17	8.95	4.59	1.31	5.29	-3.29	0.69
10/29/24	15:00:00	5.53	1.12	3.30	4.27	1.31	5.25	-2.95	0.98
10/29/24	15:15:00	4.67	1.12	2.12	4.39	1.09	4.84	-3.30	0.46
10/29/24	15:30:00	5.63	0.76	2.89	4.84	1.10	4.33	-3.74	-0.51
10/29/24	15:45:00	5.24	1.61	1.98	4.85	1.16	3.85	-3.70	-1.00
10/29/24	16:00:00	6.01	1.36	6.44	5.42	1.19	3.34	-4.22	-2.07
10/29/24	16:15:00	6.45	1.30	7.02	5.60	1.23	4.09	-4.37	-1.51
10/29/24	16:30:00	4.71	0.65	8.02	5.61	1.13	5.27	-4.47	-0.34
10/29/24	16:45:00	4.38	0.00	12.48	5.36	0.98	7.19	-4.38	1.83
10/29/24	17:00:00	5.25	0.37	14.78	5.36	0.74	9.75	-4.63	4.39
10/29/24	17:15:00	4.64	--	4.23	5.08	0.58	9.31	-4.50	4.22
10/29/24	17:30:00	4.53	0.32	4.13	4.70	0.33	8.73	-4.37	4.02

Table 5

Wednesday, Oct 30, 2024

Date	Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	Ambient	N3SB	TB4	N3SB - Ambient	TB4 - Ambient
10/30/2024	7:00:00	12.93	1.11	0.00	11.72	1.11	0.00	-10.61	-11.72
10/30/2024	7:15:00	4.72	1.74	0.00	9.39	1.43	0.00	-7.96	-9.39
10/30/2024	7:30:00	4.81	2.27	13.83	8.24	1.71	4.61	-6.54	-3.63
10/30/2024	7:45:00	4.10	4.06	2.53	7.41	2.30	4.09	-5.12	-3.32
10/30/2024	8:00:00	3.86	2.37	0.20	6.09	2.31	3.31	-3.78	-2.77
10/30/2024	8:15:00	8.25	0.90	1.71	5.15	2.27	3.65	-2.88	-1.50
10/30/2024	8:30:00	6.70	1.44	0.00	5.54	2.21	3.65	-3.34	-1.89
10/30/2024	8:45:00	7.18	3.73	0.00	6.02	2.50	0.89	-3.52	-5.13
10/30/2024	9:00:00	7.75	3.37	0.00	6.75	2.36	0.38	-4.38	-6.37
10/30/2024	9:15:00	7.65	4.40	--	7.51	2.77	0.43	-4.74	-7.08
10/30/2024	9:30:00	4.28	3.04	--	6.71	3.20	0.00	-3.51	-6.71
10/30/2024	9:45:00	9.77	2.66	4.47	7.32	3.44	1.49	-3.88	-5.83
10/30/2024	10:00:00	10.19	2.89	0.73	7.93	3.27	1.73	-4.65	-6.19
10/30/2024	10:15:00	8.46	2.68	0.96	8.07	3.14	2.06	-4.93	-6.01
10/30/2024	10:30:00	13.13	5.24	2.23	9.16	3.30	2.10	-5.86	-7.06
10/30/2024	10:45:00	13.43	1.67	1.83	10.99	3.03	2.05	-7.97	-8.95
10/30/2024	11:00:00	17.66	2.87	0.00	12.57	3.07	1.15	-9.50	-11.42
10/30/2024	11:15:00	14.01	3.23	0.00	13.34	3.14	1.00	-10.20	-12.33
10/30/2024	11:30:00	18.81	2.57	0.00	15.41	3.12	0.81	-12.29	-14.59
10/30/2024	11:45:00	7.94	0.32	--	14.37	2.13	0.46	-12.24	-13.91
10/30/2024	12:00:00	6.86	2.31	15.18	13.06	2.26	3.80	-10.80	-9.26
10/30/2024	12:15:00	6.88	5.50	3.12	10.90	2.78	4.58	-8.12	-6.32
10/30/2024	12:30:00	15.93	9.77	4.02	11.28	4.09	5.58	-7.19	-5.70
10/30/2024	12:45:00	9.69	4.03	6.37	9.46	4.39	7.17	-5.07	-2.29
10/30/2024	13:00:00	9.82	3.12	4.40	9.84	4.95	6.62	-4.89	-3.22
10/30/2024	13:15:00	6.94	2.32	1.63	9.85	4.95	3.91	-4.90	-5.94
10/30/2024	13:30:00	6.34	5.15	0.33	9.74	4.88	3.35	-4.87	-6.39
10/30/2024	13:45:00	4.57	3.49	0.79	7.47	3.62	2.70	-3.85	-4.77
10/30/2024	14:00:00	5.31	3.98	--	6.59	3.61	1.79	-2.98	-4.81
10/30/2024	14:15:00	5.23	3.69	0.00	5.68	3.73	0.69	-1.95	-4.99
10/30/2024	14:30:00	5.47	7.13	0.50	5.38	4.69	0.41	-0.69	-4.98
10/30/2024	14:45:00	--	1.93	0.73	5.14	4.04	0.51	-1.10	-4.64
10/30/2024	15:00:00	4.22	2.92	2.04	5.06	3.93	0.82	-1.13	-4.24
10/30/2024	15:15:00	3.70	3.56	5.39	4.66	3.85	1.73	-0.81	-2.92
10/30/2024	15:30:00	3.96	0.48	14.43	4.34	3.20	4.62	-1.13	0.28
10/30/2024	15:45:00	3.73	1.87	10.34	3.90	2.15	6.59	-1.75	2.68
10/30/2024	16:00:00	2.52	1.06	8.51	3.63	1.98	8.14	-1.65	4.51
10/30/2024	16:15:00	2.32	1.25	2.41	3.25	1.64	8.22	-1.60	4.97
10/30/2024	16:30:00	1.98	0.00	23.60	2.90	0.93	11.86	-1.97	8.95
10/30/2024	16:45:00	3.62	1.20	24.50	2.83	1.08	13.87	-1.76	11.04
10/30/2024	17:00:00	8.49	0.28	22.11	3.79	0.76	16.23	-3.03	12.44
10/30/2024	17:15:00	7.86	0.42	21.59	4.86	0.63	18.84	-4.23	13.98
10/30/2024	17:30:00	6.83	--	4.56	5.76	0.47	19.27	-5.28	13.51

Table 6

Thursday, Oct 31, 2024

Date	Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	Ambient	N3SB	TB4	N3SB - Ambient	TB4 - Ambient
10/31/2024	7:00:00	5.10	1.20	0.00	5.10	1.78	5.55	-3.32	0.45
10/31/2024	7:15:00	13.11	1.13	0.00	9.11	1.51	3.57	-7.60	-5.54
10/31/2024	7:30:00	14.09	1.22	--	10.77	1.31	2.19	-9.46	-8.58
10/31/2024	7:45:00	15.38	1.35	--	11.92	1.18	0.00	-10.74	-11.92
10/31/2024	8:00:00	14.56	1.06	--	12.45	1.19	0.00	-11.26	-12.45
10/31/2024	8:15:00	5.78	0.62	2.50	12.59	1.08	1.25	-11.51	-11.34
10/31/2024	8:30:00	6.10	--	3.68	11.18	1.06	3.09	-10.12	-8.09
10/31/2024	8:45:00	5.00	0.79	5.79	9.37	0.96	3.99	-8.41	-5.38
10/31/2024	9:00:00	5.86	1.06	3.81	7.46	0.88	3.94	-6.58	-3.52
10/31/2024	9:15:00	7.61	2.39	2.82	6.07	1.22	3.72	-4.85	-2.35
10/31/2024	9:30:00	8.73	3.60	4.70	6.66	1.96	4.16	-4.70	-2.50
10/31/2024	9:45:00	10.50	1.92	4.35	7.54	1.95	4.29	-5.59	-3.25
10/31/2024	10:00:00	12.83	2.80	26.04	9.11	2.36	8.34	-6.75	-0.76
10/31/2024	10:15:00	10.92	2.01	8.50	10.12	2.55	9.28	-7.57	-0.84
10/31/2024	10:30:00	11.34	1.19	5.29	10.86	2.31	9.77	-8.56	-1.09
10/31/2024	10:45:00	8.12	3.57	0.72	10.74	2.30	8.98	-8.44	-1.76
10/31/2024	11:00:00	8.46	2.56	7.45	10.33	2.43	9.60	-7.91	-0.73
10/31/2024	11:15:00	6.48	0.80	3.93	9.06	2.03	5.18	-7.04	-3.89
10/31/2024	11:30:00	7.06	4.10	7.86	8.29	2.44	5.05	-5.85	-3.24
10/31/2024	11:45:00	9.77	1.80	9.55	7.98	2.56	5.90	-5.41	-2.08
10/31/2024	12:00:00	6.45	3.44	1.93	7.64	2.54	6.14	-5.11	-1.50
10/31/2024	12:15:00	7.71	5.75	21.09	7.49	3.18	8.87	-4.31	1.38
10/31/2024	12:30:00	7.78	4.20	38.26	7.75	3.86	15.74	-3.90	7.98
10/31/2024	12:45:00	9.32	4.59	40.93	8.21	3.96	22.35	-4.25	14.14
10/31/2024	13:00:00	7.97	6.70	46.74	7.85	4.94	29.79	-2.91	21.94
10/31/2024	13:15:00	8.59	2.71	48.88	8.27	4.79	39.18	-3.48	30.91
10/31/2024	13:30:00	7.45	4.41	10.80	8.22	4.52	37.12	-3.70	28.90
10/31/2024	13:45:00	13.46	1.24	9.52	9.36	3.93	31.38	-5.43	22.02
10/31/2024	14:00:00	6.66	2.58	8.06	8.82	3.53	24.80	-5.30	15.98
10/31/2024	14:15:00	9.43	1.08	25.93	9.12	2.40	20.64	-6.71	11.52
10/31/2024	14:30:00	6.84	0.17	--	8.77	1.90	13.58	-6.87	4.81
10/31/2024	14:45:00	6.40	0.49	17.25	8.56	1.11	15.19	-7.44	6.63
10/31/2024	15:00:00	9.64	1.75	20.28	7.79	1.21	17.88	-6.58	10.09
10/31/2024	15:15:00	7.59	5.63	19.90	7.98	1.82	20.84	-6.15	12.86
10/31/2024	15:30:00	8.08	1.46	25.20	7.71	1.90	20.66	-5.81	12.95
10/31/2024	15:45:00	8.33	2.49	21.85	8.01	2.36	20.90	-5.64	12.89
10/31/2024	16:00:00	5.75	2.31	13.17	7.88	2.73	20.08	-5.15	12.20
10/31/2024	16:15:00	6.26	2.32	13.04	7.20	2.84	18.63	-4.36	11.43
10/31/2024	16:30:00	6.77	6.13	11.00	7.04	2.94	16.85	-4.10	9.81
10/31/2024	16:45:00	6.75	10.86	45.60	6.77	4.82	20.93	-1.95	14.16
10/31/2024	17:00:00	7.94	9.18	29.74	6.69	6.16	22.51	-0.54	15.82
10/31/2024	17:15:00	4.38	12.79	32.16	6.42	8.26	26.31	1.83	19.89
10/31/2024	17:30:00	5.27	7.19	36.11	6.22	9.23	30.92	3.01	24.70

Table 7

Friday, Nov 1, 2024

Date	Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	Ambient	N3SB	TB4	N3SB - Ambient	TB4 - Ambient
11/1/2024	7:00:00	7.47	2.36	2.34	--	4.28	0.80	--	--
11/1/2024	7:15:00	9.01	5.02	4.53	--	2.52	2.85	--	--
11/1/2024	7:30:00	9.59	2.77	2.62	--	2.57	2.60	--	--
11/1/2024	7:45:00	10.24	3.41	4.88	--	3.16	3.29	--	--
11/1/2024	8:00:00	9.89	4.13	5.43	--	3.54	3.96	--	--
11/1/2024	8:15:00	8.25	3.56	6.52	--	3.78	4.80	--	--
11/1/2024	8:30:00	10.49	2.67	7.64	--	3.31	5.42	--	--
11/1/2024	8:45:00	10.84	5.71	5.19	9.94	3.90	5.93	-4.01	-4.01
11/1/2024	9:00:00	11.63	1.36	8.33	10.22	3.49	6.62	-3.60	-3.60
11/1/2024	9:15:00	15.46	3.24	11.38	11.33	3.31	7.81	-3.52	-3.52
11/1/2024	9:30:00	11.53	3.62	4.34	11.99	3.32	7.38	-4.61	-4.61
11/1/2024	9:45:00	10.72	3.30	6.26	12.04	3.45	7.10	-4.93	-4.93
11/1/2024	10:00:00	8.53	2.94	3.72	11.57	2.89	6.81	-4.76	-4.76
11/1/2024	10:15:00	10.80	5.69	3.30	11.41	3.76	5.80	-5.60	-5.60
11/1/2024	10:30:00	8.98	4.00	--	10.11	3.91	4.41	-5.70	-5.70
11/1/2024	10:45:00	8.26	5.27	2.30	9.46	4.24	3.90	-5.56	-5.56
11/1/2024	11:00:00	8.82	5.28	5.97	9.08	4.64	3.82	-5.25	-5.25
11/1/2024	11:15:00	12.23	6.75	1.89	9.82	5.40	3.37	-6.45	-6.45
11/1/2024	11:30:00	17.16	6.78	2.04	11.09	5.62	3.05	-8.04	-8.04
11/1/2024	11:45:00	12.62	7.88	2.77	11.82	6.39	3.00	-8.82	-8.82
11/1/2024	12:00:00	11.04	3.82	1.29	12.38	6.10	2.79	-9.58	-9.58
11/1/2024	12:15:00	10.28	5.31	3.85	12.67	6.11	2.37	-10.30	-10.30
11/1/2024	12:30:00	8.93	3.47	0.77	12.01	5.45	2.15	-9.86	-9.86
11/1/2024	12:45:00	10.19	3.73	3.24	10.61	4.84	2.39	-8.23	-8.23
11/1/2024	13:00:00	9.14	5.38	3.62	9.92	4.34	2.56	-7.36	-7.36
11/1/2024	13:15:00	8.64	5.28	2.78	9.44	4.63	2.85	-6.58	-6.58
11/1/2024	13:30:00	11.87	7.78	4.63	9.75	5.13	3.01	-6.74	-6.74
11/1/2024	13:45:00	13.31	6.55	--	10.63	5.74	3.57	-7.06	-7.06
11/1/2024	14:00:00	7.49	4.37	4.87	10.09	5.87	3.98	-6.11	-6.11
11/1/2024	14:15:00	8.93	2.60	3.59	10.05	5.32	3.97	-6.08	-6.08
11/1/2024	14:30:00	7.18	3.91	3.24	9.76	5.04	4.08	-5.67	-5.67
11/1/2024	14:45:00	7.13	3.74	3.62	8.81	4.24	3.83	-4.98	-4.98
11/1/2024	15:00:00	5.83	4.21	7.01	7.31	3.77	4.46	-2.85	-2.85
11/1/2024	15:15:00	6.67	3.85	7.46	7.15	3.66	4.98	-2.17	-2.17
11/1/2024	15:30:00	7.60	4.17	8.15	6.88	3.98	5.89	-0.99	-0.99
11/1/2024	15:45:00	7.21	3.18	8.96	6.89	3.83	7.04	0.15	0.15
11/1/2024	16:00:00	5.01	3.55	6.06	6.47	3.79	7.53	1.06	1.06
11/1/2024	16:15:00	5.78	3.41	3.29	6.46	3.63	6.78	0.33	0.33
11/1/2024	16:30:00	4.69	1.87	4.32	6.06	3.24	6.16	0.10	0.10
11/1/2024	16:45:00	9.48	1.67	4.60	6.43	2.74	5.45	-0.99	-0.99
11/1/2024	17:00:00	17.00	3.11	4.07	8.39	2.72	4.47	-3.92	-3.92
11/1/2024	17:15:00	16.02	2.47	22.33	10.59	2.51	7.72	-2.87	-2.87
11/1/2024	17:30:00	17.78	4.20	--	12.99	2.66	8.83	-4.16	-4.16