

**GOWANUS CANAL SUPERFUND SITE  
RTA1 REMEDIAL CONSTRUCTION  
Water Quality Monitoring Weekly Data Summary**

**PERIOD: August 8 – August 12, 2022**

**Date of Report: August 16, 2022**

## **Report Contents**

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*Prepared by*

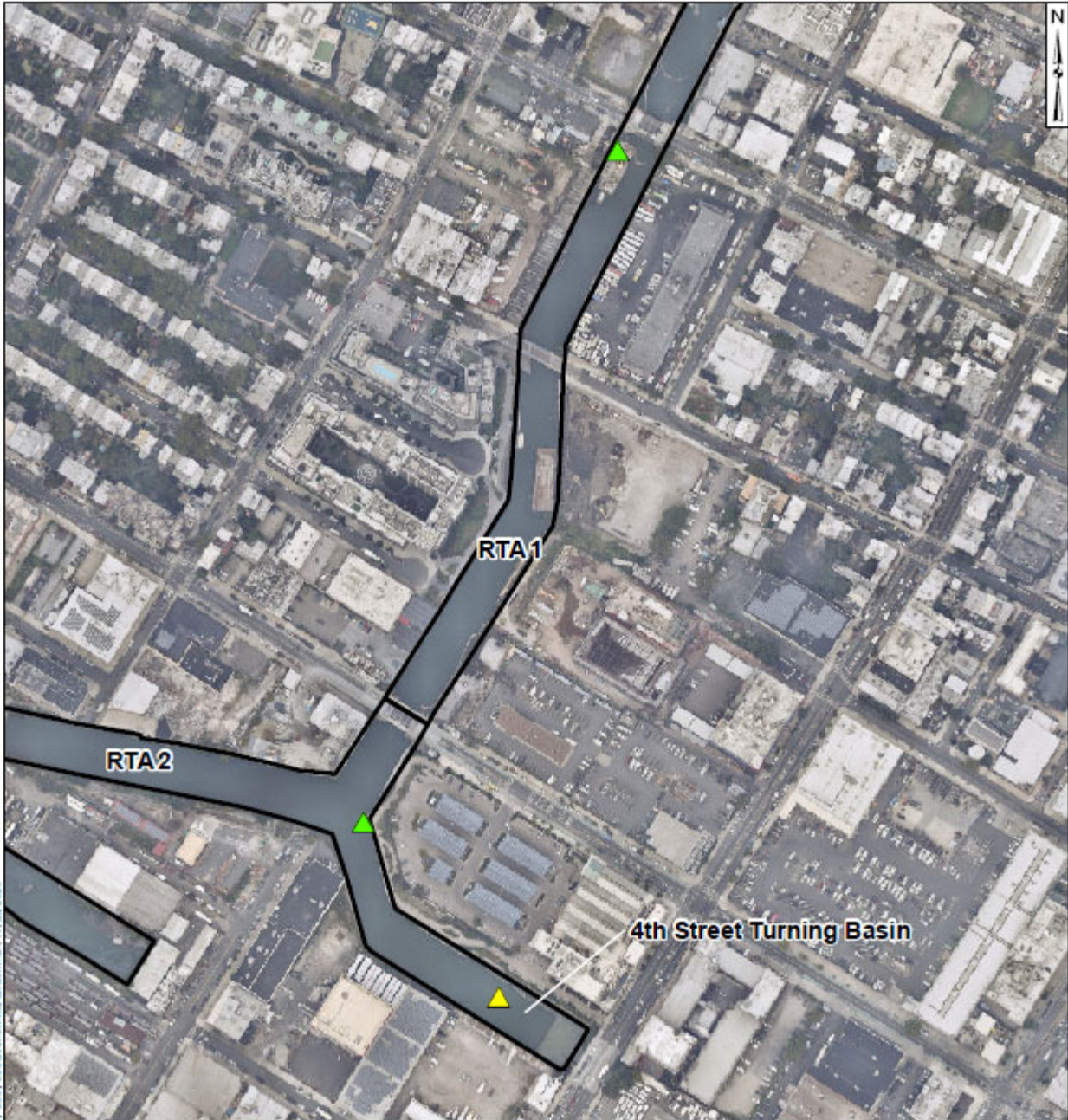
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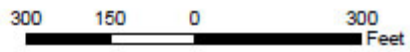
## **1. SCOPE OF MONITORING**

The following report summarizes water quality monitoring data collected during the week of August 8, 2022. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Union Street Bridge and the head of the canal. One turbidity buoy was deployed just south of the 3<sup>rd</sup> Street Bridge outside of the air curtain and traditional turbidity curtain. This buoy is referred to as the 3<sup>rd</sup> Street Sentinel Buoy. A second turbidity buoy was deployed just south of the Union Street Bridge and is referred to as the Union Street Sentinel Buoy. The third turbidity buoy was deployed in the Fourth Street Turning Basin in order to monitor background turbidity unaffected by in-water construction activities. This turbidity buoy is referred to as the Ambient Buoy. On July 14, 2022, the Union Street Buoy was removed from the canal for servicing before being re-deployed on July 21, 2022. On January 22, 2021, prior to dredging north of the Union Street Bridge, a fourth turbidity buoy was deployed just south of the Union Street Bridge and was referred to as the Union Street Sentinel Buoy. This fourth turbidity buoy was removed prior to the start of pipe pile installation. On Wednesday, September 22, 2021, the Carroll Street Sentinel Buoy was relocated to the west side of the canal where Degraw Street intersects the canal to monitor cofferdam removal activities conducted in the vicinity of the Flushing Tunnel. This buoy was renamed the Degraw Street Sentinel Buoy during cofferdam removal activities. On October 14, 2021, the Degraw Street Sentinel Buoy was removed from the canal for servicing. On October 20, 2021, the Degraw Street Sentinel Buoy was redeployed to its position south of the Carroll Street Bridge and was renamed to the Carroll Street Sentinel Buoy. On November 15, 2021, the Carroll Street Sentinel Buoy was moved to the Union Street Bridge and renamed the Union Street Sentinel Buoy. On December 3, 2021, the Union Street Buoy was removed from the canal for servicing and re-deployed at 3<sup>rd</sup> Street Bridge in preparation for the resumption of ISS operations. On December 8, 2021, a third sentinel buoy was deployed just south of the Carroll Street Bridge. On April 21, 2022, the buoy deployed at the Carroll Street Bridge was relocated to the Union Street Bridge. Each turbidity buoy was equipped with a YSI EXO3 water quality meter with optical turbidity sensor. The buoys were field calibrated and programmed such that readings were collected every 15 minutes. After each measurement, the turbidity data were transmitted to a File Transfer Portal (FTP) site via telemetry. No handheld measurements were collected during this reporting period. Visual observations of turbidity and sheen are summarized in Section 4.



**Legend**

-  Ambient Buoy
-  Sentinel Buoy
-  RTA Boundary



**Turbidity Buoy Locations**

Gowanus Canal, Brooklyn, NY

B&B Engineers & Geologists  
of new york, p.c.

*an affiliate of Geosyntec Consultants*

Kennesaw, GA

February 2021

Figure

**1**

## 2. REPORT OF EXCEEDANCES

Exceedances of the trigger criterion occurred at the Union Street Sentinel Buoy on Tuesday, August 9<sup>th</sup> from 12:45 PM to 1:15 PM, and on Wednesday, August 10<sup>th</sup> from 1:30 PM to 2:30 PM. No exceedances of the action level criteria were met during the reporting period. Further information is provided in Section 2.1.

- **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 RTA1 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 RTA1 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.

Exceedances of the trigger criterion occurred at the Union Street Sentinel Buoy on Tuesday, August 9<sup>th</sup> from 12:45 PM to 1:15 PM, and on Wednesday, August 10<sup>th</sup> from 1:30 PM to 2:30 PM due to temporarily resuspended sediment caused by propwash from passing tugs during construction activities occurring at the Union Street Bridge.

### 3. TURBIDITY BUOY DATA

The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from August 8 – August 12, 2022. Exceedances to the numerical rolling average trigger criterion occurred at the Union Street Sentinel Buoy, described in Section 2. No exceedances to the numerical rolling average action criteria were observed during the reporting period.

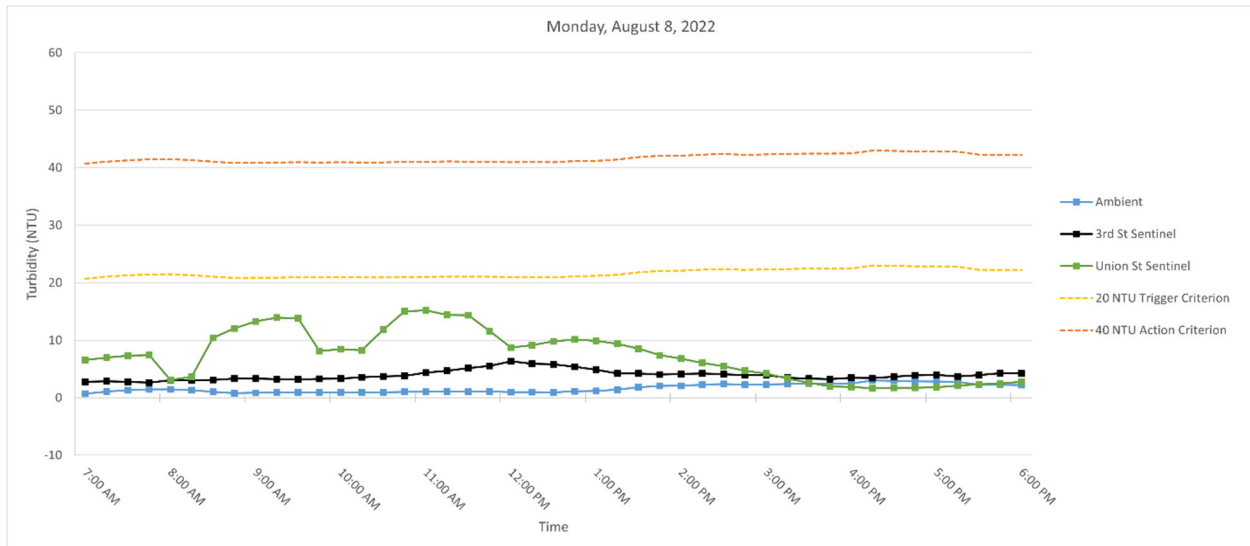
Table 1 below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)		Maximum Rolling Average Difference (NTU)	
	3rd St - Ambient	Union St - Ambient	3rd St - Ambient	Union St - Ambient
Monday, August 8, 2022	2.29	5.75	5.38	14.18
Tuesday, August 9, 2022	2.09	5.19	3.23	22.68
Wednesday, August 10, 2022	3.82	3.64	6.92	27.85
Thursday, August 11, 2022	3.26	-0.23	10.27	2.29
Friday, August 12, 2022	3.15	1.56	15.81	7.04

Table 1. Daily average and maximum differences between the rolling average turbidity readings from RTA1 sentinel buoys and the ambient buoy between 7 AM and 6 PM.

#### 3.1 Monday, August 8, 2022

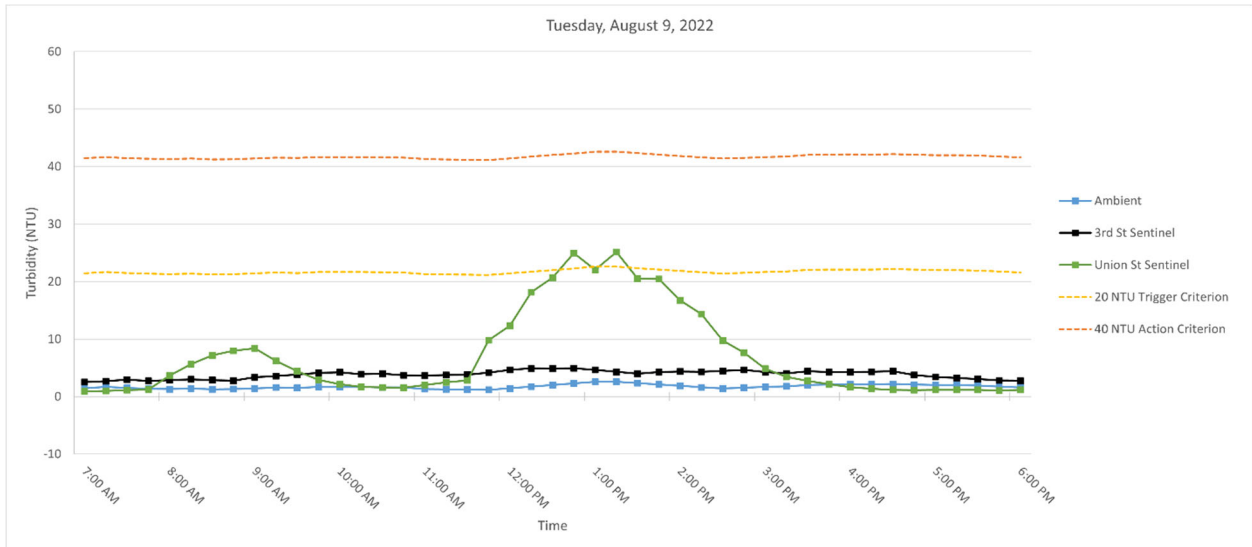
Figure 2. Hourly rolling average turbidity readings on Monday, August 8, 2022, from 7 AM to 6 PM.



**Note:** A turbidity reading from the Union Street Sentinel Buoy of 25.95 NTU at 12:00 PM was removed as an outlier in accordance with the water quality monitoring plan.

### 3.2 Tuesday, August 9, 2022

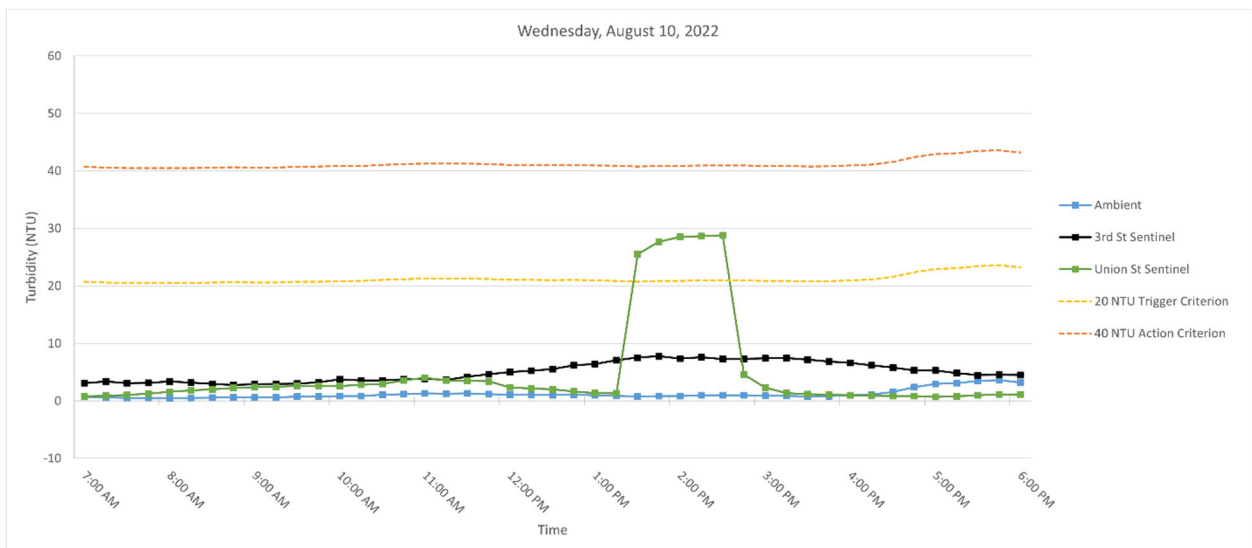
**Figure 3.** Hourly rolling average turbidity readings on Tuesday, August 9, 2022, from 7 AM to 6 PM.



**Note:** A turbidity reading from the Union Street Sentinel Buoy of 64.82 NTU at 1:00 PM was removed as an outlier in accordance with the water quality monitoring plan.

### 3.3 Wednesday, August 10, 2022

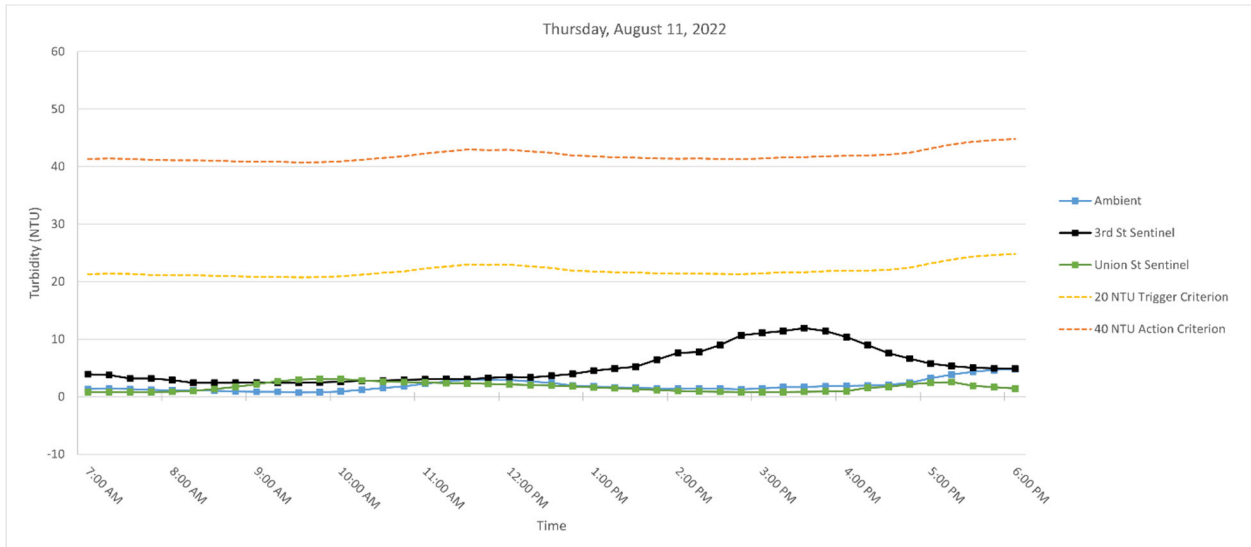
**Figure 4.** Hourly rolling average turbidity readings on Wednesday, August 10, 2022, from 7 AM to 6 PM.



**Note:** Turbidity readings from the Union Street Sentinel Buoy of 20.02 NTU at 10:00 AM and the 3<sup>rd</sup> Street Sentinel Buoy of 20.05 NTU at 2:30 PM were removed as outliers in accordance with the water quality monitoring plan.

### 3.4 Thursday, August 11, 2022

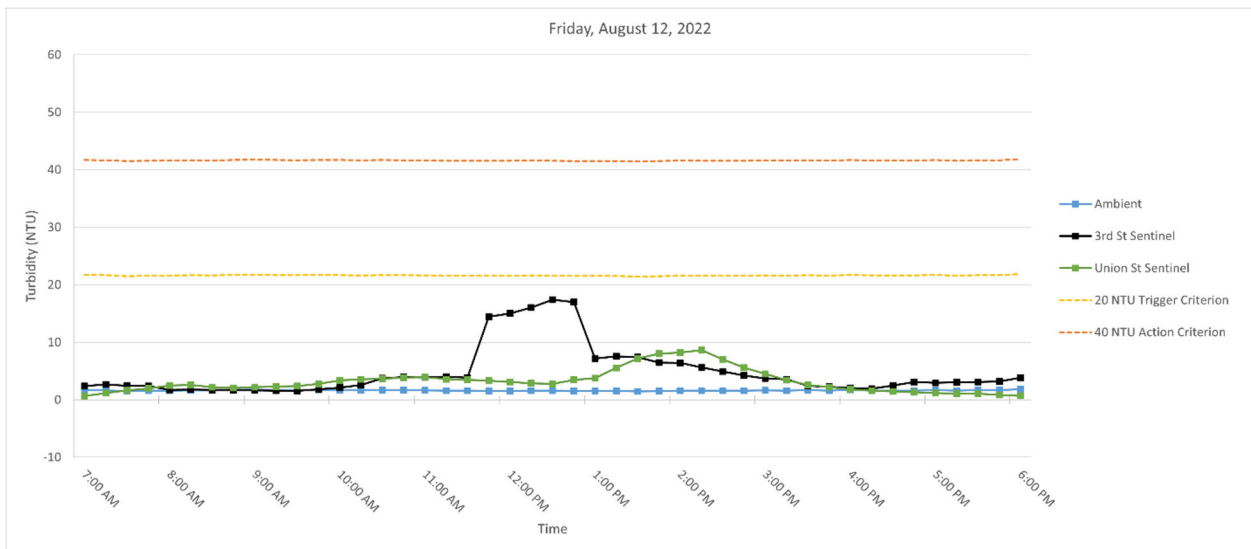
**Figure 5.** Hourly rolling average turbidity readings on Thursday, August 11, 2022, from 7 AM to 6 PM.



**Note:** A turbidity reading from the Union Street Sentinel Buoy of 66.08 NTU at 4:30 PM was removed as an outlier in accordance with the water quality monitoring plan.

### 3.5 Friday, August 12, 2022

**Figure 6.** Hourly rolling average turbidity readings on Friday, August 12, 2022, from 7 AM to 6 PM.



**Note:** A turbidity reading from the Union Street Sentinel Buoy of 84.76 NTU at 4:30 PM was removed as an outlier in accordance with the water quality monitoring plan.

## **SUMMARY OF VISUAL OBSERVATIONS**

Sheen was observed above background conditions during work operations. These sheens were contained within RTA1 by the air curtain deployed south of the 3<sup>rd</sup> Street Bridge. A temporary boom was also deployed south of all work activities (between the Union Street Bridge and 3<sup>rd</sup> Street Bridge) to contain sheens north of all work activities to the extent practicable.

At 8:40 AM on Friday, August 12, 2022, a leak of approximately 3 to 5 gallons of hydraulic oil occurred during in-waterway excavation work at Union Street Bridge. A hose broke free from a fitting on the excavator causing a release of hydraulic oil into the Canal. The bucket was immediately placed in the adjacent mini-hopper and the release was contained with absorbent booms and turbidity curtains. Absorbent pads were used to sweep the contained area where the release occurred. NYSDEC and EPA were immediately notified of the spill.

In a separate incident, at 4:00 PM on Friday, August 12, 2022, a discharge was observed entering the Canal from the drains on the east side of Carroll Street Bridge, which resulted in a visually observable increase in turbidity. The origins of this discharge were unrelated to remedial construction activities.



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

## Monday, August 8, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Union Street	Ambient	3rd Street	Union Street	3rd St - Ambient	Union St - Ambient
7:00:00	1.41	3.21	4.86	0.71	2.76	6.55	2.05	5.84
7:15:00	2.49	2.83	2.52	1.07	2.86	6.98	1.80	5.91
7:30:00	1.74	2.51	2.1	1.31	2.78	7.31	1.48	6.00
7:45:00	0.9	2.65	3.04	1.46	2.63	7.39	1.17	5.94
8:00:00	0.79	4.04	2.88	1.47	3.05	3.08	1.58	1.61
8:15:00	0.65	3.32	7.83	1.31	3.07	3.67	1.76	2.36
8:30:00	1.15	3.03	36.24	1.05	3.11	10.42	2.06	9.37
8:45:00	0.58	3.62	10.41	0.81	3.33	12.08	2.52	11.27
9:00:00	1.17	2.75	9	0.87	3.35	13.27	2.48	12.40
9:15:00	0.95	3.47	6.24	0.90	3.24	13.94	2.34	13.04
9:30:00	0.93	3.18	7.15	0.96	3.21	13.81	2.25	12.85
9:45:00	0.9	3.38	7.73	0.91	3.28	8.11	2.37	7.20
10:00:00	0.8	3.9	12.21	0.95	3.34	8.47	2.39	7.52
10:15:00	1.08	3.79	8.04	0.93	3.54	8.27	2.61	7.34
10:30:00	0.95	4.39	24	0.93	3.73	11.83	2.80	10.89
10:45:00	1.46	3.45	23.11	1.04	3.78	15.02	2.74	13.98
11:00:00	0.83	6.34	8.68	1.02	4.37	15.21	3.35	14.18
11:15:00	1.11	5.46	8.3	1.09	4.69	14.43	3.60	13.34
11:30:00	0.87	6.26	7.63	1.04	5.18	14.34	4.14	13.30
11:45:00	1.07	6.26	10.24	1.07	5.55	11.59	4.49	10.52
12:00:00	0.95	7.4	--	0.97	6.34	8.71	5.38	7.75
12:15:00	0.94	4.14	10.37	0.99	5.90	9.14	4.92	8.15
12:30:00	0.9	5.06	10.92	0.95	5.82	9.79	4.88	8.84
12:45:00	1.81	4.18	8.97	1.13	5.41	10.13	4.27	8.99
13:00:00	1.32	3.72	9.3	1.18	4.90	9.89	3.72	8.71
13:15:00	2.09	4.08	7.42	1.41	4.24	9.40	2.82	7.98
13:30:00	3.06	4.11	6.14	1.84	4.23	8.55	2.39	6.71
13:45:00	2.05	4.08	5.12	2.07	4.03	7.39	1.97	5.32
14:00:00	1.92	4.54	6.14	2.09	4.11	6.82	2.02	4.74
14:15:00	2.23	4.21	5.39	2.27	4.20	6.04	1.93	3.77
14:30:00	2.72	3.51	4.73	2.40	4.09	5.50	1.69	3.11
14:45:00	2.3	3.42	1.98	2.24	3.95	4.67	1.71	2.43
15:00:00	2.39	--	2.93	2.31	3.92	4.23	1.61	1.92
15:15:00	2.33	2.83	1.66	2.39	3.49	3.34	1.10	0.94
15:30:00	2.67	3.64	1.73	2.48	3.35	2.61	0.87	0.12
15:45:00	2.5	3.12	1.51	2.44	3.25	1.96	0.81	-0.48
16:00:00	2.59	4.26	1.47	2.50	3.46	1.86	0.97	-0.64
16:15:00	4.83	3.2	1.79	2.98	3.41	1.63	0.43	-1.35
16:30:00	2.17	4.16	2.09	2.95	3.68	1.72	0.72	-1.23
16:45:00	2.16	4.71	1.87	2.85	3.89	1.75	1.04	-1.10
17:00:00	2.41	3.53	2.04	2.83	3.97	1.85	1.14	-0.98
17:15:00	2.34	3.01	2.72	2.78	3.72	2.10	0.94	-0.68
17:30:00	2.17	4.39	3.03	2.25	3.96	2.35	1.71	0.10
17:45:00	2.14	5.79	2.72	2.24	4.29	2.48	2.04	0.23
18:00:00	2.04	4.32	3.36	2.22	4.21	2.77	1.99	0.55

## Tuesday, August 9, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Union Street	Ambient	3rd Street	Union Street	3rd St - Ambient	Union St - Ambient
7:00:00	1.22	2.89	1.15	1.46	2.51	0.88	1.05	-0.58
7:15:00	2.34	3.08	1.18	1.67	2.69	0.99	1.03	-0.68
7:30:00	1.15	3.55	1.33	1.49	2.95	1.11	1.46	-0.38
7:45:00	0.95	2.28	1.71	1.38	2.72	1.24	1.34	-0.14
8:00:00	0.79	2.48	13.01	1.29	2.86	3.68	1.57	2.39
8:15:00	1.81	3.63	10.91	1.41	3.00	5.63	1.60	4.22
8:30:00	1.61	2.4	8.88	1.26	2.87	7.17	1.61	5.91
8:45:00	1.36	3.04	5.41	1.30	2.77	7.98	1.46	6.68
9:00:00	1.56	5.38	3.88	1.43	3.39	8.42	1.96	6.99
9:15:00	1.6	3.47	1.85	1.59	3.58	6.19	2.00	4.60
9:30:00	1.39	4.86	1.97	1.50	3.83	4.40	2.33	2.89
9:45:00	2.42	3.97	1.39	1.67	4.14	2.90	2.48	1.23
10:00:00	1.46	3.41	1.58	1.69	4.22	2.13	2.53	0.45
10:15:00	1.55	3.82	1.55	1.68	3.91	1.67	2.22	-0.02
10:30:00	1.22	3.87	1.52	1.61	3.99	1.60	2.38	-0.01
10:45:00	1.29	3.54	1.7	1.59	3.72	1.55	2.13	-0.04
11:00:00	1.05	3.68	3.74	1.31	3.66	2.02	2.35	0.70
11:15:00	1.18	3.89	4	1.26	3.76	2.50	2.50	1.24
11:30:00	1.32	4.01	3.03	1.21	3.80	2.80	2.59	1.59
11:45:00	1	5.78	36.63	1.17	4.18	9.82	3.01	8.65
12:00:00	2.6	5.94	14.38	1.43	4.66	12.36	3.23	10.93
12:15:00	2.6	4.9	32.73	1.74	4.90	18.15	3.16	16.41
12:30:00	2.6	3.84	16.78	2.02	4.89	20.71	2.87	18.69
12:45:00	2.6	4.11	24.3	2.28	4.91	24.96	2.63	22.68
13:00:00	2.6	4.48	--	2.60	4.65	22.05	2.05	19.45
13:15:00	2.6	4.14	26.81	2.60	4.29	25.16	1.69	22.56
13:30:00	1.36	3.38	14.18	2.35	3.99	20.52	1.64	18.17
13:45:00	1.3	5.25	16.59	2.09	4.27	20.47	2.18	18.38
14:00:00	1.48	4.52	9.4	1.87	4.35	16.75	2.49	14.88
14:15:00	1.35	4.2	4.74	1.62	4.30	14.34	2.68	12.73
14:30:00	1.57	4.88	3.93	1.41	4.45	9.77	3.03	8.36
14:45:00	1.96	4.45	3.61	1.53	4.66	7.65	3.13	6.12
15:00:00	2.05	3.18	2.4	1.68	4.25	4.82	2.56	3.13
15:15:00	1.88	3.38	2.37	1.76	4.02	3.41	2.26	1.65
15:30:00	2.72	6.09	1.35	2.04	4.40	2.73	2.36	0.70
15:45:00	1.89	4.23	0.97	2.10	4.27	2.14	2.17	0.04
16:00:00	2.04	4.39	1.08	2.12	4.25	1.63	2.14	-0.48
16:15:00	1.93	3.46	1.02	2.09	4.31	1.36	2.22	-0.73
16:30:00	2.39	3.87	1.51	2.19	4.41	1.19	2.21	-1.01
16:45:00	2.19	2.89	1.07	2.09	3.77	1.13	1.68	-0.96
17:00:00	1.52	2.48	1.1	2.01	3.42	1.16	1.40	-0.86
17:15:00	2.01	3.4	1.13	2.01	3.22	1.17	1.21	-0.84
17:30:00	1.52	2.64	1.02	1.93	3.06	1.17	1.13	-0.76
17:45:00	1.55	2.62	0.9	1.76	2.81	1.04	1.05	-0.71
18:00:00	1.38	2.58	1.65	1.60	2.74	1.16	1.15	-0.44

## Wednesday, August 10, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Union Street	Ambient	3rd Street	Union Street	3rd St - Ambient	Union St - Ambient
7:00:00	0.3	3.2	1.1	0.72	3.09	0.78	2.37	0.06
7:15:00	--	3.53	1.35	0.60	3.37	0.90	2.78	0.31
7:30:00	0.4	3.89	1.48	0.51	3.08	1.05	2.58	0.55
7:45:00	0.75	2.78	1.77	0.50	3.14	1.29	2.64	0.79
8:00:00	--	3.37	2.18	0.48	3.35	1.58	2.87	1.09
8:15:00	0.38	2.37	2.34	0.51	3.19	1.82	2.68	1.31
8:30:00	0.77	2.37	2.2	0.58	2.96	1.99	2.38	1.42
8:45:00	--	3.03	2.83	0.63	2.78	2.26	2.15	1.63
9:00:00	0.66	3.39	2.49	0.60	2.91	2.41	2.30	1.80
9:15:00	0.58	3.57	2.3	0.60	2.95	2.43	2.35	1.83
9:30:00	0.94	2.7	3.27	0.74	3.01	2.62	2.27	1.88
9:45:00	0.85	3.56	2.28	0.76	3.25	2.63	2.49	1.88
10:00:00	1.21	5.57	--	0.85	3.76	2.59	2.91	1.74
10:15:00	0.7	2.49	3.44	0.86	3.58	2.82	2.72	1.97
10:30:00	1.59	3.56	2.84	1.06	3.58	2.96	2.52	1.90
10:45:00	1.56	3.67	5.79	1.18	3.77	3.59	2.59	2.41
11:00:00	1.47	3.91	--	1.31	3.84	4.02	2.53	2.72
11:15:00	1.06	4.74	2.26	1.28	3.67	3.58	2.40	2.31
11:30:00	0.81	5.12	3.11	1.30	4.20	3.50	2.90	2.20
11:45:00	1.05	5.86	2.45	1.19	4.66	3.40	3.47	2.21
12:00:00	0.98	5.52	1.59	1.07	5.03	2.35	3.96	1.28
12:15:00	1.33	5.06	1.39	1.05	5.26	2.16	4.21	1.11
12:30:00	0.88	6.03	1.58	1.01	5.52	2.02	4.51	1.01
12:45:00	1.04	8.53	1.1	1.06	6.20	1.62	5.14	0.57
13:00:00	0.61	6.92	1.15	0.97	6.41	1.36	5.44	0.39
13:15:00	0.6	8.96	1.24	0.89	7.10	1.29	6.21	0.40
13:30:00	0.66	7.21	122.54	0.76	7.53	25.52	6.77	24.76
13:45:00	1.41	7.3	12.33	0.86	7.78	27.67	6.92	26.81
14:00:00	1.05	6.45	5.48	0.87	7.37	28.55	6.50	27.68
14:15:00	1.18	8.09	1.74	0.98	7.60	28.67	6.62	27.69
14:30:00	0.6	--	2.07	0.98	7.26	28.83	6.28	27.85
14:45:00	0.58	7.51	1.3	0.96	7.34	4.58	6.37	3.62
15:00:00	1.02	7.67	0.95	0.89	7.43	2.31	6.54	1.42
15:15:00	1.09	6.59	0.82	0.89	7.47	1.38	6.57	0.48
15:30:00	0.54	6.95	0.71	0.77	7.18	1.17	6.41	0.40
15:45:00	0.88	5.61	1.64	0.82	6.87	1.08	6.04	0.26
16:00:00	1.31	6.31	0.75	0.97	6.63	0.97	5.66	0.01
16:15:00	1.79	5.43	0.49	1.12	6.18	0.88	5.06	-0.24
16:30:00	3.32	4.69	0.56	1.57	5.80	0.83	4.23	-0.74
16:45:00	4.7	4.55	0.8	2.40	5.32	0.85	2.92	-1.55
17:00:00	3.55	5.56	1.04	2.93	5.31	0.73	2.37	-2.21
17:15:00	2.07	3.87	1	3.09	4.82	0.78	1.73	-2.31
17:30:00	3.72	3.74	1.53	3.47	4.48	0.99	1.01	-2.49
17:45:00	3.96	5.13	1.28	3.60	4.57	1.13	0.97	-2.47
18:00:00	2.72	4.31	0.89	3.20	4.52	1.15	1.32	-2.06

## Thursday, August 11, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Union Street	Ambient	3rd Street	Union Street	3rd St - Ambient	Union St - Ambient
7:00:00	1.21	4.83	0.63	1.33	3.90	0.81	2.57	-0.51
7:15:00	--	2.34	0.59	1.42	3.76	0.80	2.34	-0.62
7:30:00	1.28	2.5	0.95	1.34	3.18	0.81	1.84	-0.53
7:45:00	0.84	2.34	1.01	1.18	3.17	0.79	1.99	-0.39
8:00:00	1.12	2.47	1.03	1.11	2.90	0.84	1.78	-0.27
8:15:00	1.19	2.31	1.4	1.11	2.39	1.00	1.28	-0.11
8:30:00	0.72	2.5	2.29	1.03	2.42	1.34	1.39	0.31
8:45:00	0.71	2.5	2.82	0.92	2.42	1.71	1.51	0.79
9:00:00	0.53	2.37	3.32	0.85	2.43	2.17	1.58	1.32
9:15:00	1.1	2.37	3.55	0.85	2.41	2.68	1.56	1.83
9:30:00	0.58	2.33	2.89	0.73	2.41	2.97	1.69	2.25
9:45:00	0.96	3.02	2.77	0.78	2.52	3.07	1.74	2.29
10:00:00	1.41	2.93	2.72	0.92	2.60	3.05	1.69	2.13
10:15:00	1.9	3.22	2.27	1.19	2.77	2.84	1.58	1.65
10:30:00	2.78	2.31	2.59	1.53	2.76	2.65	1.24	1.12
10:45:00	1.94	3.16	2.42	1.80	2.93	2.55	1.13	0.76
11:00:00	3.35	3.52	2.3	2.28	3.03	2.46	0.75	0.18
11:15:00	3.17	3.24	2.21	2.63	3.09	2.36	0.46	-0.27
11:30:00	3.64	2.89	2.16	2.98	3.02	2.34	0.05	-0.64
11:45:00	2.31	3.33	2	2.88	3.23	2.22	0.35	-0.66
12:00:00	2.22	4.14	1.85	2.94	3.42	2.10	0.49	-0.83
12:15:00	1.96	3.12	1.81	2.66	3.34	2.01	0.68	-0.65
12:30:00	1.86	4.69	1.76	2.40	3.63	1.92	1.24	-0.48
12:45:00	1.27	4.44	1.46	1.92	3.94	1.78	2.02	-0.15
13:00:00	1.63	6.1	1.16	1.79	4.50	1.61	2.71	-0.18
13:15:00	1.37	6	1.04	1.62	4.87	1.45	3.25	-0.17
13:30:00	1.77	4.91	1.13	1.58	5.23	1.31	3.65	-0.27
13:45:00	1.11	10.75	0.98	1.43	6.44	1.15	5.01	-0.28
14:00:00	1.08	10.31	0.67	1.39	7.61	1.00	6.22	-0.40
14:15:00	1.72	6.84	0.7	1.41	7.76	0.90	6.35	-0.51
14:30:00	1.08	12.02	0.79	1.35	8.97	0.85	7.61	-0.50
14:45:00	1.52	13.46	0.94	1.30	10.68	0.82	9.37	-0.49
15:00:00	1.81	12.74	0.73	1.44	11.07	0.77	9.63	-0.68
15:15:00	2.06	12.08	0.93	1.64	11.43	0.82	9.79	-0.82
15:30:00	1.8	9.3	0.87	1.65	11.92	0.85	10.27	-0.80
15:45:00	1.91	9.58	1.09	1.82	11.43	0.91	9.61	-0.91
16:00:00	1.95	8.2	1.16	1.91	10.38	0.96	8.47	-0.95
16:15:00	1.94	5.64	3.75	1.93	8.96	1.56	7.03	-0.37
16:30:00	2.73	5.02	--	2.07	7.55	1.72	5.48	-0.35
16:45:00	3.56	4.61	2.65	2.42	6.61	2.16	4.19	-0.26
17:00:00	5.73	5.17	2.05	3.18	5.73	2.40	2.55	-0.78
17:15:00	5.26	6.06	1.74	3.84	5.30	2.55	1.46	-1.30
17:30:00	4.43	4.24	1.06	4.34	5.02	1.88	0.68	-2.47
17:45:00	4.19	4.6	0.8	4.63	4.94	1.66	0.30	-2.97
18:00:00	4.46	4.24	1.38	4.81	4.86	1.41	0.05	-3.41

## Friday, August 12, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Union Street	Ambient	3rd Street	Union Street	3rd St - Ambient	Union St - Ambient
7:00:00	1.52	--	1.66	1.72	2.42	0.64	0.70	-1.08
7:15:00	--	2.48	3.01	1.66	2.68	1.18	1.02	-0.48
7:30:00	1.42	1.89	2.5	1.51	2.42	1.64	0.92	0.13
7:45:00	1.64	2.22	--	1.58	2.39	1.95	0.81	0.37
8:00:00	1.82	0.33	2.79	1.60	1.73	2.49	0.13	0.89
8:15:00	1.74	2.04	2.03	1.66	1.79	2.58	0.14	0.93
8:30:00	1.52	2.08	1.53	1.63	1.71	2.21	0.08	0.58
8:45:00	1.92	1.89	1.99	1.73	1.71	2.09	-0.02	0.36
9:00:00	1.85	1.8	2.72	1.77	1.63	2.21	-0.14	0.44
9:15:00	1.43	0.14	3.2	1.69	1.59	2.29	-0.10	0.60
9:30:00	1.69	1.89	2.59	1.68	1.56	2.41	-0.12	0.72
9:45:00	1.73	3.37	3.36	1.72	1.82	2.77	0.09	1.05
10:00:00	1.77	3.4	5.06	1.69	2.12	3.39	0.43	1.69
10:15:00	1.58	4.04	3.66	1.64	2.57	3.57	0.93	1.93
10:30:00	1.67	5.96	3.65	1.69	3.73	3.66	2.04	1.98
10:45:00	1.65	3.01	3.6	1.68	3.96	3.87	2.28	2.19
11:00:00	1.5	3.16	3.73	1.63	3.91	3.94	2.28	2.31
11:15:00	1.51	4.03	3.31	1.58	4.04	3.59	2.46	2.01
11:30:00	1.58	3.14	3.14	1.58	3.86	3.49	2.28	1.90
11:45:00	1.59	58.86	2.83	1.57	14.44	3.32	12.87	1.76
12:00:00	1.57	5.94	2.49	1.55	15.03	3.10	13.48	1.55
12:15:00	1.78	8.16	2.44	1.61	16.03	2.84	14.42	1.24
12:30:00	1.38	10.86	3.04	1.58	17.39	2.79	15.81	1.21
12:45:00	1.39	1.13	6.57	1.54	16.99	3.47	15.45	1.93
13:00:00	1.57	9.74	4.24	1.54	7.17	3.76	5.63	2.22
13:15:00	1.57	7.85	11.51	1.54	7.55	5.56	6.01	4.02
13:30:00	1.33	7.43	10.44	1.45	7.40	7.16	5.95	5.71
13:45:00	1.66	6.33	7.44	1.50	6.50	8.04	4.99	6.54
14:00:00	1.88	0.83	7.48	1.60	6.44	8.22	4.83	6.62
14:15:00	1.47	5.65	6.22	1.58	5.62	8.62	4.04	7.04
14:30:00	1.61	4.47	3.52	1.59	4.94	7.02	3.35	5.43
14:45:00	1.33	3.94	3.26	1.59	4.24	5.58	2.65	3.99
15:00:00	1.89	3.58	2.1	1.64	3.69	4.52	2.06	2.88
15:15:00	1.68	0.08	2.1	1.60	3.54	3.44	1.95	1.84
15:30:00	1.85	0.11	2.02	1.67	2.44	2.60	0.76	0.93
15:45:00	1.24	3.52	1.56	1.60	2.25	2.21	0.65	0.61
16:00:00	1.92	3.08	1.38	1.72	2.07	1.83	0.36	0.12
16:15:00	1.35	2.83	1	1.61	1.92	1.61	0.32	0.00
16:30:00	1.71	2.91	1.35	1.61	2.49	1.46	0.88	-0.15
16:45:00	1.82	--	1.22	1.61	3.09	1.30	1.48	-0.31
17:00:00	1.74	3.03	0.91	1.71	2.96	1.17	1.25	-0.54
17:15:00	1.3	3.37	0.82	1.58	3.04	1.06	1.45	-0.52
17:30:00	1.85	3.14	--	1.68	3.11	1.08	1.43	-0.61
17:45:00	1.71	3.21	0.39	1.68	3.19	0.84	1.50	-0.85
18:00:00	2.64	6.39	0.71	1.85	3.83	0.71	1.98	-1.14