

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

**PERIOD: March 21 – March 25, 2022**

**Date of Report: March 30, 2022**

## **Report Contents**

- Scope of Monitoring
- Report of Exceedances
- Turbidity Buoy Data
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*Prepared by*

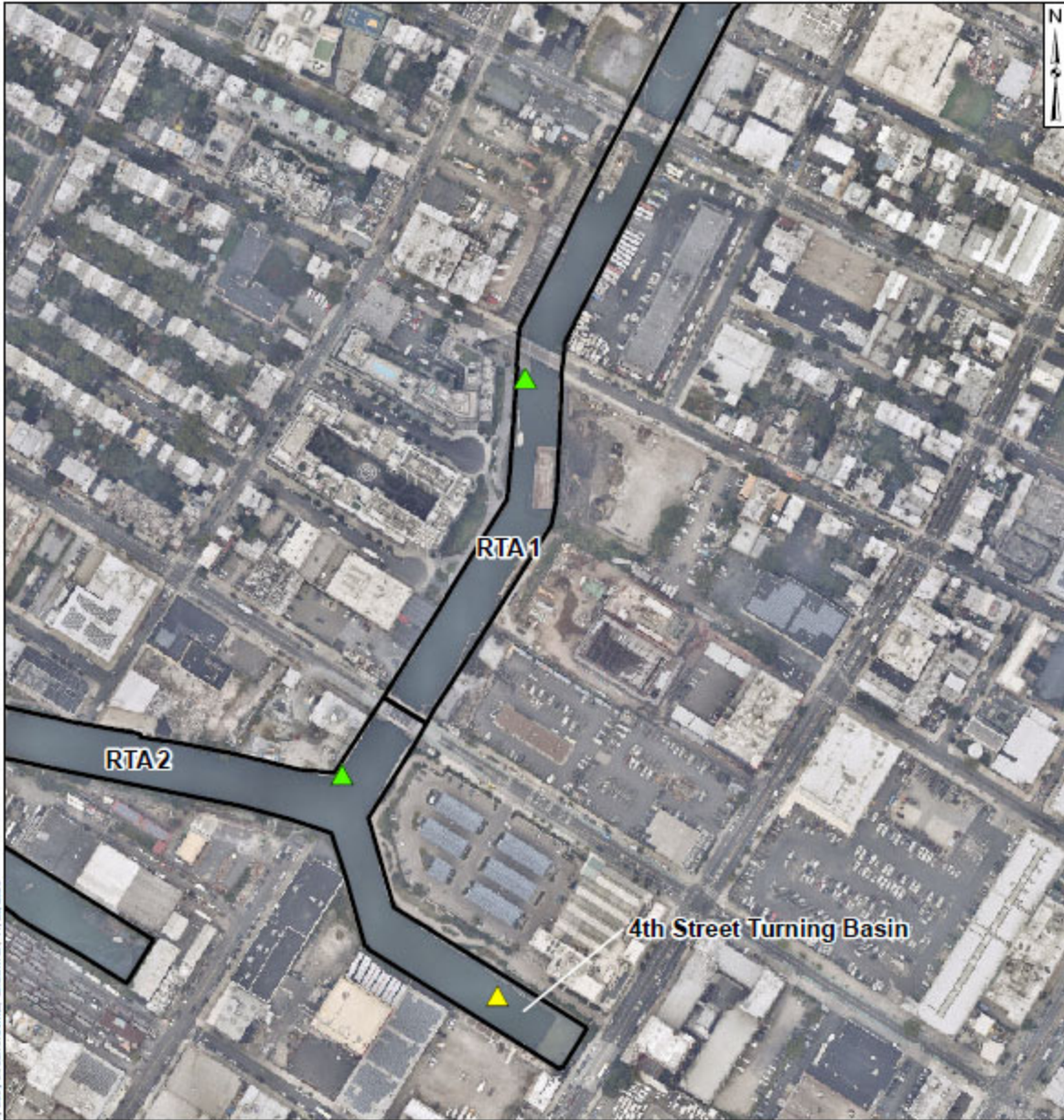
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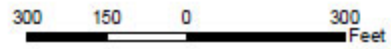
## **1. SCOPE OF MONITORING**

The following report summarizes water quality monitoring data collected during the week of March 21, 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 Carroll Street Bridge and 3<sup>rd</sup> Street Bridge. 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 Carroll Street Bridge and is referred to as the Carroll 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. Prior to dredging north of the Union Street Bridge, on January 22, 2021 a fourth turbidity buoy was deployed just south of the Union Street Bridge and is 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. 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

No exceedances of the trigger or 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.

There were no exceedances of the trigger or action level criteria during the reporting period.

### 3. TURBIDITY BUOY DATA

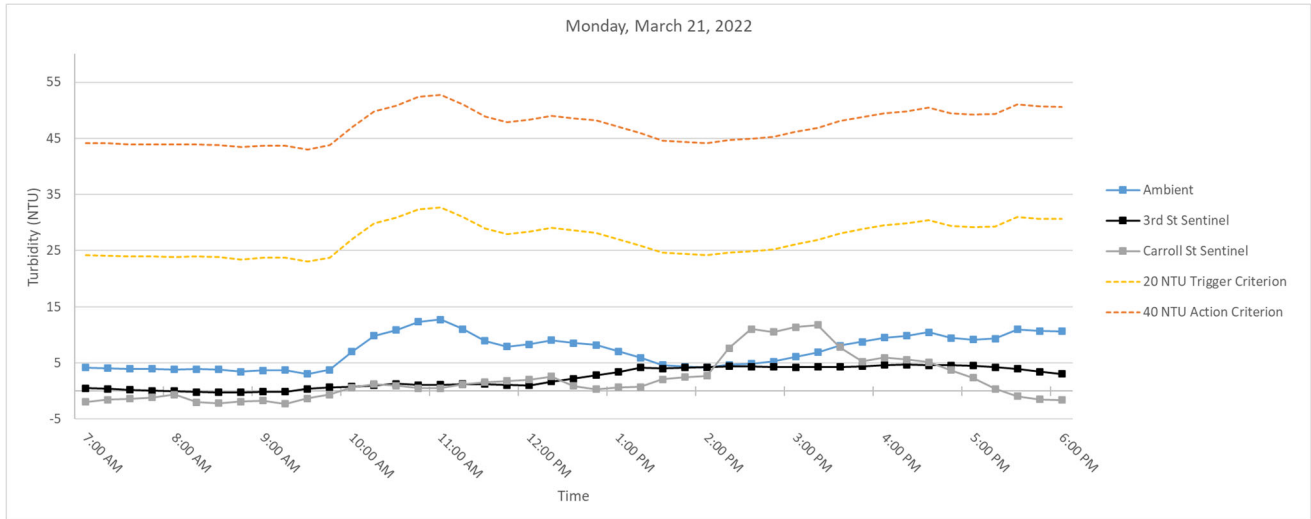
The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from March 21 – March 25, 2022. No exceedances to the numerical rolling average trigger or action criteria were observed during the reporting period. **Table 1** below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)		Maximum Rolling Average Difference (NTU)	
	3rd St - Ambient	Carroll St - Ambient	3rd St - Ambient	Carroll St - Ambient
Monday, March 21, 2022	-4.78	-5.16	0.10	6.16
Tuesday, March 22, 2022	-3.84	-3.78	-0.84	2.65
Wednesday, March 23, 2022	-7.79	-9.45	-5.32	-2.10
Thursday, March 24, 2022	-4.82	-7.32	-1.59	-2.54
Friday, March 25, 2022	-4.43	-8.88	-1.61	-4.11

**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, March 21, 2022

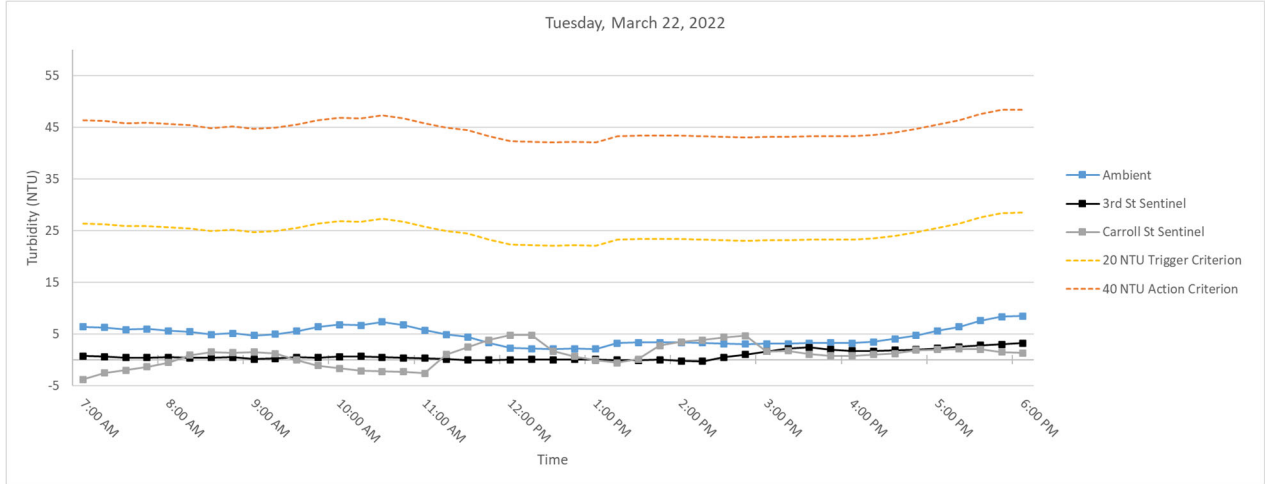
**Figure 2.** Hourly rolling average turbidity readings on Monday, March 21, 2022, from 7 AM to 6 PM.



**Note:** No outlier turbidity readings above 15 NTU were detected.

### 3.2 Tuesday, March 22, 2022

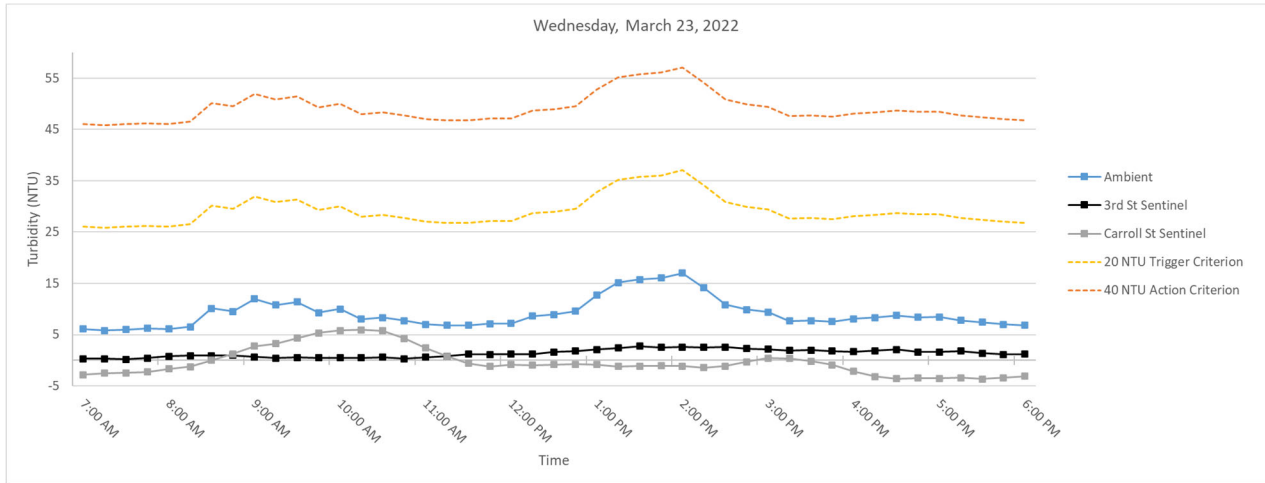
**Figure 3.** Hourly rolling average turbidity readings on Tuesday, March 22, 2022, from 7 AM to 6 PM.



**Note:** No outlier turbidity readings above 15 NTU were detected.

### 3.3 Wednesday, March 23, 2022

**Figure 4.** Hourly rolling average turbidity readings on Wednesday, March 23, 2022, from 7 AM to 6 PM.

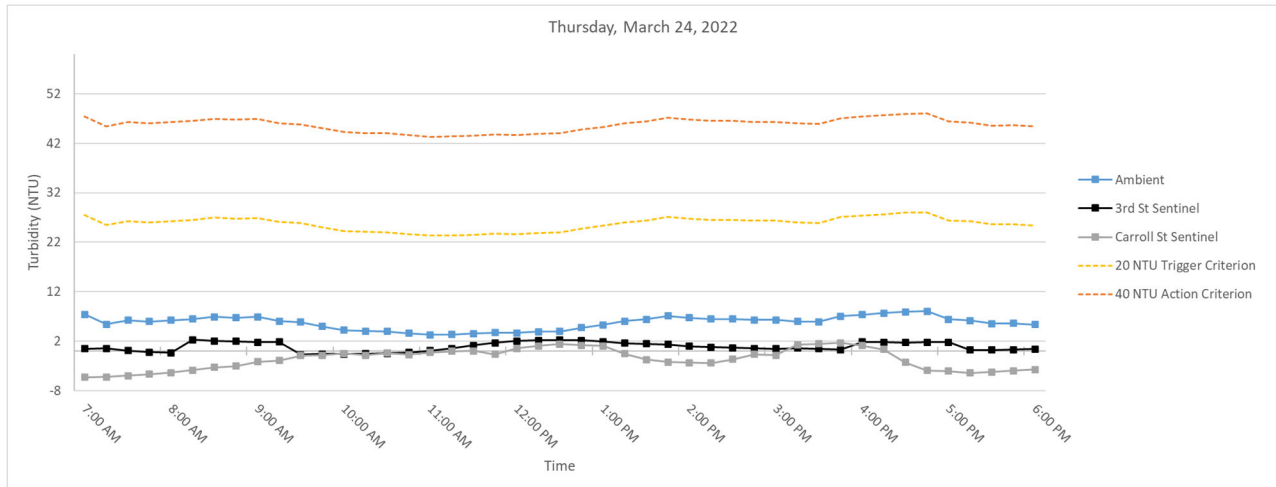


**Note:** Turbidity readings from the Ambient Buoy of 19.45 NTU at 8:00 AM, 23.6 NTU at 12:00 PM, and 77.59 NTU at 3:30 PM were removed as outliers in accordance to the water quality monitoring plan.



### 3.4 Thursday, March 24, 2022

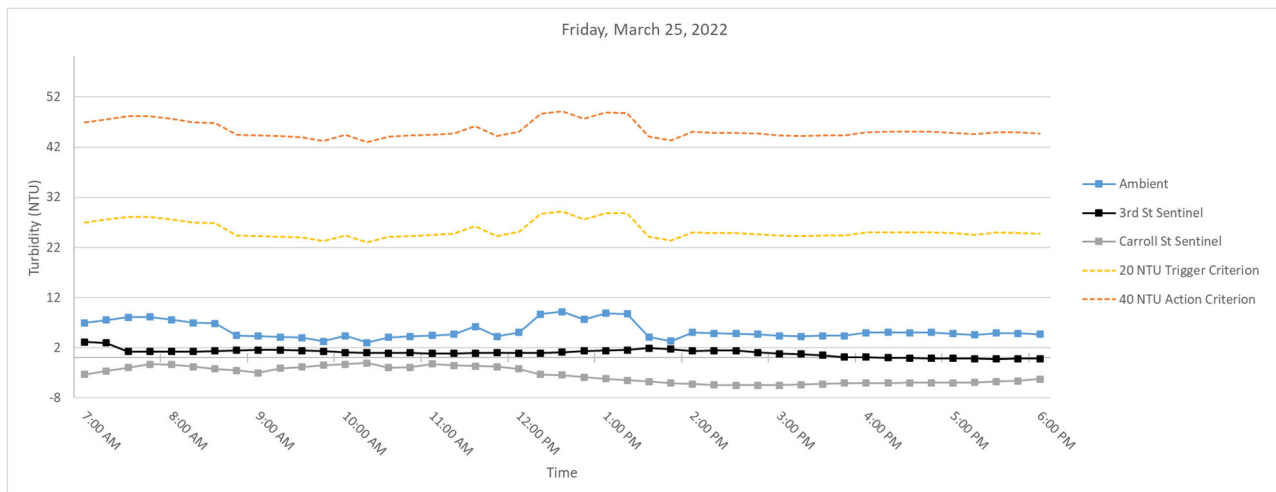
**Figure 5.** Hourly rolling average turbidity readings on Thursday, March 24, 2022, from 7 AM to 6 PM.



**Note:** Turbidity readings from the Ambient Buoy of 19.8 NTU at 9:00 AM and 45.14 NTU at 3:00 PM were removed as outliers in accordance to the water quality monitoring plan.

### 3.5 Friday, March 25, 2022

**Figure 6.** Hourly rolling average turbidity readings on Friday, March 25, 2022, from 7 AM to 6 PM.



**Note:** No outlier turbidity readings above 15 NTU were detected.

## **SUMMARY OF VISUAL OBSERVATIONS**

Sheen was observed above background conditions within the ISS mixing area during ISS operations. These sheens were contained by absorbent booms positioned along the boundaries of the ISS mixing area.

On March 25<sup>th</sup> a small release of approximately 1 gallon of hydraulic oil into the Canal occurred at approximately 9:30 am from a leak on the primary ISS drill rig. Because the location of the leak was under the rig, the majority of the leak was contained in the secondary containment under the rig and did not enter the Canal. However, a small quantity of the oil was released into the water immediately around the rig before the rig could be shut down. This release was contained by the absorbent booms already positioned along the boundaries of the ISS mixing area. Additional booms were immediately deployed to contain this release. These booms, along with absorbent pads, removed all visible oil within an hour of the release. The incident was reported to EPA and NYSDEC in accordance with the water quality monitoring plan.



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

## Monday, March 21, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	4.14	0.26	2.54	4.17	0.49	-1.94	-3.67	-6.11
7:15:00	3.59	-0.07	-2.81	4.09	0.40	-1.52	-3.69	-5.61
7:30:00	3.93	-0.04	-3.28	3.94	0.22	-1.38	-3.72	-5.32
7:45:00	4.03	-0.04	-2.69	3.96	0.07	-1.16	-3.90	-5.12
8:00:00	3.67	-0.02	3.17	3.87	0.02	-0.61	-3.85	-4.49
8:15:00	4.43	-0.78	-4.4	3.93	-0.19	-2.00	-4.12	-5.93
8:30:00	3.07	-0.36	-3.57	3.83	-0.25	-2.15	-4.07	-5.98
8:45:00	2.08	0.14	-1.81	3.46	-0.21	-1.86	-3.67	-5.32
9:00:00	5.27	0.36	-1.9	3.70	-0.13	-1.70	-3.84	-5.41
9:15:00	--	0.15	0.22	3.71	-0.10	-2.29	-3.81	-6.00
9:30:00	1.73	1.66	0.67	3.04	0.39	-1.28	-2.65	-4.32
9:45:00	6.02	1.09	-0.17	3.78	0.68	-0.60	-3.10	-4.37
10:00:00	14.95	0.68	4.32	6.99	0.79	0.63	-6.20	-6.36
10:15:00	16.61	1.39	--	9.83	0.99	1.26	-8.83	-8.57
10:30:00	15.04	1.63	-0.92	10.87	1.29	0.98	-9.58	-9.90
10:45:00	9.2	0.6	-1.29	12.36	1.08	0.49	-11.29	-11.88
11:00:00	7.96	1.3	-0.17	12.75	1.12	0.49	-11.63	-12.27
11:15:00	6.37	1.35	7.05	11.04	1.25	1.17	-9.78	-9.87
11:30:00	6.08	1.34	3.21	8.93	1.24	1.58	-7.69	-7.35
11:45:00	10.01	0.7	0.22	7.92	1.06	1.80	-6.87	-6.12
12:00:00	11.31	0.45	-0.16	8.35	1.03	2.03	-7.32	-6.32
12:15:00	11.43	4.69	--	9.04	1.71	2.58	-7.33	-6.46
12:30:00	4	3.75	0.32	8.57	2.19	0.90	-6.38	-7.67
12:45:00	4.31	4.53	1	8.21	2.82	0.35	-5.39	-7.87
13:00:00	4.29	3.61	1.51	7.07	3.41	0.67	-3.66	-6.40
13:15:00	5.67	4.33	0.08	5.94	4.18	0.73	-1.76	-5.21
13:30:00	4.92	3.73	7.68	4.64	3.99	2.12	-0.65	-2.52
13:45:00	2.69	4.73	2.14	4.38	4.19	2.48	-0.19	-1.89
14:00:00	3.3	4.96	2.18	4.17	4.27	2.72	0.10	-1.46
14:15:00	6.9	4.29	25.99	4.70	4.41	7.61	-0.29	2.92
14:30:00	6.66	4.13	17.28	4.89	4.37	11.05	-0.53	6.16
14:45:00	6.73	3.51	5.07	5.26	4.32	10.53	-0.93	5.28
15:00:00	7.08	4.45	6.35	6.13	4.27	11.37	-1.87	5.24
15:15:00	7.15	5.19	4.07	6.90	4.31	11.75	-2.59	4.85
15:30:00	12.83	--	6.15	8.09	4.32	7.78	-3.77	-0.31
15:45:00	10.16	4.45	4.72	8.79	4.40	5.27	-4.39	-3.52
16:00:00	10.19	4.48	8.33	9.48	4.64	5.92	-4.84	-3.56
16:15:00	8.81	4.7	4.66	9.83	4.71	5.59	-5.12	-4.24
16:30:00	10.28	4.7	1.98	10.45	4.58	5.17	-5.87	-5.29
16:45:00	7.89	4.48	-1.06	9.47	4.56	3.73	-4.90	-5.74
17:00:00	8.77	4.18	-2.03	9.19	4.51	2.38	-4.68	-6.81
17:15:00	10.9	3.27	-1.44	9.33	4.27	0.42	-5.06	-8.91
17:30:00	17.12	3.17	-1.89	10.99	3.96	-0.89	-7.03	-11.88
17:45:00	8.78	2.05	-0.89	10.69	3.43	-1.46	-7.26	-12.15
18:00:00	7.56	2.68	-1.82	10.63	3.07	-1.61	-7.56	-12.24

## Tuesday, March 22, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	4.26	0.19	-2.38	6.37	0.72	-3.79	-5.65	-10.16
7:15:00	6.74	0.15	1.65	6.27	0.61	-2.53	-5.66	-8.80
7:30:00	3.99	0.08	--	5.82	0.42	-2.01	-5.40	-7.82
7:45:00	8.31	1.34	-1.26	5.93	0.41	-1.39	-5.52	-7.32
8:00:00	4.73	0.68	-0.18	5.61	0.49	-0.54	-5.12	-6.15
8:15:00	3.22	-0.36	3.29	5.40	0.38	0.88	-5.02	-4.52
8:30:00	4.09	0.34	4.08	4.87	0.42	1.48	-4.45	-3.39
8:45:00	5.4	--	0.87	5.15	0.50	1.36	-4.65	-3.79
9:00:00	6.2	-0.1	-0.46	4.73	0.14	1.52	-4.59	-3.21
9:15:00	5.75	1.1	-1.86	4.93	0.25	1.18	-4.69	-3.75
9:30:00	6.11	0.56	-2.95	5.51	0.48	-0.06	-5.04	-5.57
9:45:00	8.26	0.16	-1.13	6.34	0.43	-1.11	-5.91	-7.45
10:00:00	7.73	1.16	-1.97	6.81	0.58	-1.67	-6.23	-8.48
10:15:00	5.52	0.42	-2.88	6.67	0.68	-2.16	-5.99	-8.83
10:30:00	8.88	0.2	-2.41	7.30	0.50	-2.27	-6.80	-9.57
10:45:00	3.35	0	-3.1	6.75	0.39	-2.30	-6.36	-9.05
11:00:00	3.24	-0.24	--	5.74	0.31	-2.59	-5.44	-8.33
11:15:00	3.52	0.16	12.47	4.90	0.11	1.02	-4.79	-3.88
11:30:00	3.02	-0.32	2.88	4.40	-0.04	2.46	-4.44	-1.94
11:45:00	3.37	0.14	3.12	3.30	-0.05	3.84	-3.35	0.54
12:00:00	-1.79	0.28	0.65	2.27	0.00	4.78	-2.27	2.51
12:15:00	2.54	0.11	--	2.13	0.07	4.78	-2.06	2.65
12:30:00	3.28	-0.18	0.09	2.08	0.01	1.69	-2.08	-0.40
12:45:00	3.26	--	-1.17	2.13	0.09	0.67	-2.04	-1.46
13:00:00	3.15	-0.05	0.03	2.09	0.04	-0.10	-2.05	-2.19
13:15:00	3.78	-0.1	-1.37	3.20	-0.06	-0.61	-3.26	-3.81
13:30:00	3.29	--	3.06	3.35	-0.11	0.13	-3.46	-3.22
13:45:00	3.31	0.17	13.1	3.36	0.01	2.73	-3.35	-0.63
14:00:00	3.17	-0.86	2.47	3.34	-0.21	3.46	-3.55	0.12
14:15:00	2.78	-0.4	1.76	3.27	-0.30	3.80	-3.56	0.54
14:30:00	2.97	2.96	1.31	3.10	0.47	4.34	-2.64	1.24
14:45:00	3.09	3.26	--	3.06	1.03	4.66	-2.04	1.60
15:00:00	3.61	3.17	0.87	3.12	1.63	1.60	-1.50	-1.52
15:15:00	2.98	1.64	3.04	3.09	2.13	1.75	-0.96	-1.34
15:30:00	3.42	0.82	-0.89	3.21	2.37	1.08	-0.84	-2.13
15:45:00	3.34	1.07	0.11	3.29	1.99	0.78	-1.30	-2.51
16:00:00	2.79	1.99	0.64	3.23	1.74	0.75	-1.49	-2.47
16:15:00	4.76	2.94	2.13	3.46	1.69	1.01	-1.77	-2.45
16:30:00	5.81	2.31	4.12	4.02	1.83	1.22	-2.20	-2.80
16:45:00	6.74	1.62	2.17	4.69	1.99	1.83	-2.70	-2.85
17:00:00	7.77	2.16	0.85	5.57	2.20	1.98	-3.37	-3.59
17:15:00	6.91	3.48	1.04	6.40	2.50	2.06	-3.90	-4.34
17:30:00	10.6	4.41	1.93	7.57	2.80	2.02	-4.77	-5.54
17:45:00	9.75	3.28	1.32	8.35	2.99	1.46	-5.36	-6.89
18:00:00	7.15	2.63	1.39	8.44	3.19	1.31	-5.24	-7.13

## Wednesday, March 23, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	5.61	0.23	-1.56	6.10	0.30	-2.80	-5.80	-8.91
7:15:00	3.99	--	-3.03	5.79	0.29	-2.49	-5.50	-8.28
7:30:00	7.08	0.1	-2.87	6.02	0.21	-2.44	-5.82	-8.46
7:45:00	7.75	1.55	-2.44	6.23	0.44	-2.29	-5.79	-8.52
8:00:00	--	1.26	1.49	6.11	0.79	-1.68	-5.32	-7.79
8:15:00	7.26	0.82	0.51	6.52	0.93	-1.27	-5.59	-7.79
8:30:00	18.5	0.81	3.24	10.15	0.91	-0.01	-9.24	-10.16
8:45:00	4.67	0.3	3.48	9.55	0.95	1.26	-8.60	-8.29
9:00:00	17.48	0.29	5.12	11.98	0.70	2.77	-11.28	-9.21
9:15:00	6.08	-0.02	3.71	10.80	0.44	3.21	-10.36	-7.59
9:30:00	10.21	1.38	5.96	11.39	0.55	4.30	-10.84	-7.09
9:45:00	7.9	--	8.27	9.27	0.49	5.31	-8.78	-3.96
10:00:00	8.45	0.39	6	10.02	0.51	5.81	-9.51	-4.21
10:15:00	7.51	0.08	5.73	8.03	0.46	5.93	-7.57	-2.10
10:30:00	7.67	--	2.75	8.35	0.62	5.74	-7.73	-2.61
10:45:00	7.06	0.5	-1.58	7.72	0.32	4.23	-7.39	-3.48
11:00:00	4.4	1.41	-0.91	7.02	0.60	2.40	-6.42	-6.62
11:15:00	7.39	1.26	-1.95	6.81	0.81	0.81	-5.99	-6.00
11:30:00	7.54	1.54	-1.4	6.81	1.18	-0.62	-5.63	-7.43
11:45:00	9.4	0.96	-0.06	7.16	1.13	-1.18	-6.02	-8.34
12:00:00	--	0.94	0.09	7.18	1.22	-0.85	-5.96	-8.03
12:15:00	10.25	1.31	-1.5	8.65	1.20	-0.96	-7.44	-9.61
12:30:00	8.56	3.36	-1.13	8.94	1.62	-0.80	-7.32	-9.74
12:45:00	10.06	2.39	-1.24	9.57	1.79	-0.77	-7.78	-10.34
13:00:00	21.98	2.38	-0.24	12.71	2.08	-0.80	-10.64	-13.52
13:15:00	24.89	2.61	-1.73	15.15	2.41	-1.17	-12.74	-16.32
13:30:00	13.22	3.11	-1.36	15.74	2.77	-1.14	-12.97	-16.88
13:45:00	10.14	2.22	-0.82	16.06	2.54	-1.08	-13.52	-17.14
14:00:00	14.91	2.63	-1.36	17.03	2.59	-1.10	-14.44	-18.13
14:15:00	7.44	2.17	-1.88	14.12	2.55	-1.43	-11.57	-15.55
14:30:00	8.48	2.74	-0.22	10.84	2.57	-1.13	-8.26	-11.97
14:45:00	8.39	1.68	2.84	9.87	2.29	-0.29	-7.58	-10.16
15:00:00	7.69	1.64	2.81	9.38	2.17	0.44	-7.21	-8.94
15:15:00	6.24	1.31	-1.82	7.65	1.91	0.35	-5.74	-7.30
15:30:00	--	2.53	-4.34	7.70	1.98	-0.15	-5.72	-7.85
15:45:00	7.86	--	-3.89	7.55	1.79	-0.88	-5.76	-8.43
16:00:00	10.48	1.17	-3.61	8.07	1.66	-2.17	-6.41	-10.24
16:15:00	8.77	2.33	-2.01	8.34	1.84	-3.13	-6.50	-11.47
16:30:00	7.76	2.48	-4.05	8.72	2.13	-3.58	-6.59	-12.30
16:45:00	7.15	0.52	-3.76	8.40	1.63	-3.46	-6.78	-11.87
17:00:00	8.16	1.74	-4.13	8.46	1.65	-3.51	-6.82	-11.98
17:15:00	7.05	1.8	-3.01	7.78	1.77	-3.39	-6.00	-11.17
17:30:00	6.89	0.51	-3.3	7.40	1.41	-3.65	-5.99	-11.05
17:45:00	5.85	1.15	-2.79	7.02	1.14	-3.40	-5.88	-10.42
18:00:00	6.06	0.87	-2.15	6.80	1.21	-3.08	-5.59	-9.88

## Thursday, March 24, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	5.5	-0.4	-5.4	7.46	0.51	-5.27	-6.95	-12.73
7:15:00	5.81	-0.13	-4.85	5.45	0.53	-5.21	-4.92	-10.66
7:30:00	6.94	-0.18	-4.12	6.28	0.10	-4.94	-6.18	-11.22
7:45:00	6.07	-0.2	-3.88	6.03	-0.17	-4.64	-6.20	-10.67
8:00:00	6.97	-0.64	-3.27	6.26	-0.31	-4.30	-6.57	-10.56
8:15:00	6.63	12.58	-2.9	6.48	2.29	-3.80	-4.20	-10.29
8:30:00	8.19	-1.19	-2.17	6.96	2.07	-3.27	-4.89	-10.23
8:45:00	5.93	-0.71	-2.94	6.76	1.97	-3.03	-4.79	-9.79
9:00:00	--	-1.07	0.59	6.93	1.79	-2.14	-5.14	-9.07
9:15:00	3.59	-0.28	--	6.09	1.87	-1.86	-4.22	-7.94
9:30:00	5.68	-0.24	0.95	5.85	-0.70	-0.89	-6.55	-6.74
9:45:00	4.74	-0.52	-1.96	4.99	-0.56	-0.84	-5.55	-5.83
10:00:00	2.96	-0.73	-1.3	4.24	-0.57	-0.43	-4.81	-4.67
10:15:00	3.49	-0.79	-0.87	4.09	-0.51	-0.80	-4.60	-4.89
10:30:00	3.26	0.03	1.37	4.03	-0.45	-0.36	-4.48	-4.39
10:45:00	3.73	0.62	--	3.64	-0.28	-0.69	-3.91	-4.33
11:00:00	3.25	1.34	-0.23	3.34	0.09	-0.26	-3.24	-3.60
11:15:00	3.05	1.64	-0.24	3.36	0.57	0.01	-2.79	-3.35
11:30:00	4.52	2.3	-0.78	3.56	1.19	0.03	-2.38	-3.53
11:45:00	4.24	2.48	-1.36	3.76	1.68	-0.65	-2.08	-4.41
12:00:00	3.36	2.69	5.28	3.68	2.09	0.53	-1.59	-3.15
12:15:00	4.37	1.96	2.39	3.91	2.21	1.06	-1.69	-2.85
12:30:00	3.46	1.82	1.71	3.99	2.25	1.45	-1.74	-2.54
12:45:00	8.21	1.96	-2.21	4.73	2.18	1.16	-2.55	-3.57
13:00:00	7.3	1.29	-1.9	5.34	1.94	1.05	-3.40	-4.29
13:15:00	6.93	0.94	-2.45	6.05	1.59	-0.49	-4.46	-6.55
13:30:00	6.18	1.35	-3.5	6.42	1.47	-1.67	-4.94	-8.09
13:45:00	--	1.19	-0.95	7.16	1.35	-2.20	-5.81	-9.36
14:00:00	6.57	0.15	-2.72	6.75	0.98	-2.30	-5.76	-9.05
14:15:00	6.38	0.4	--	6.52	0.81	-2.41	-5.71	-8.92
14:30:00	6.85	0.32	0.61	6.50	0.68	-1.64	-5.81	-8.14
14:45:00	5.5	0.58	0.45	6.33	0.53	-0.65	-5.80	-6.98
15:00:00	--	1	-1.72	6.33	0.49	-0.85	-5.84	-7.17
15:15:00	5.18	0.75	5.82	5.98	0.61	1.29	-5.37	-4.69
15:30:00	6.16	-0.31	2.18	5.92	0.47	1.47	-5.45	-4.45
15:45:00	11.5	-0.56	--	7.09	0.29	1.68	-6.79	-5.40
16:00:00	6.81	8.61	-1.91	7.41	1.90	1.09	-5.51	-6.32
16:15:00	8.71	0.51	-4.57	7.67	1.80	0.38	-5.87	-7.29
16:30:00	6.66	0.37	-4.64	7.97	1.72	-2.24	-6.24	-10.20
16:45:00	6.55	0.16	-4.55	8.05	1.82	-3.92	-6.23	-11.96
17:00:00	3.41	-0.52	-4.25	6.43	1.83	-3.98	-4.60	-10.41
17:15:00	5.75	0.81	-3.93	6.22	0.27	-4.39	-5.95	-10.60
17:30:00	5.51	0.5	-3.73	5.58	0.26	-4.22	-5.31	-9.80
17:45:00	6.79	0.59	-3.17	5.60	0.31	-3.93	-5.29	-9.53
18:00:00	--	0.85	-3.31	5.37	0.45	-3.68	-4.92	-9.04

## Friday, March 25, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	8.14	1.23	-1.19	6.98	3.15	-3.33	-3.83	-10.31
7:15:00	8.94	1.2	-1	7.54	2.99	-2.62	-4.54	-10.15
7:30:00	10.43	1.74	-1.4	8.12	1.26	-1.98	-6.86	-10.09
7:45:00	5.59	0.76	-0.37	8.12	1.27	-1.29	-6.85	-9.41
8:00:00	4.99	1.22	-2.59	7.62	1.23	-1.31	-6.39	-8.93
8:15:00	4.9	1.4	-3.37	6.97	1.26	-1.75	-5.71	-8.72
8:30:00	8.35	1.82	-3.41	6.85	1.39	-2.23	-5.46	-9.08
8:45:00	-1.71	2.2	-2.77	4.42	1.48	-2.50	-2.94	-6.93
9:00:00	5.02	1.22	-2.88	4.31	1.57	-3.00	-2.74	-7.31
9:15:00	4.29	1.1	1.96	4.17	1.55	-2.09	-2.62	-6.26
9:30:00	4.05	0.76	-1.97	4.00	1.42	-1.81	-2.58	-5.81
9:45:00	4.62	1.32	-1.59	3.25	1.32	-1.45	-1.93	-4.70
10:00:00	4.1	0.93	-1.91	4.42	1.07	-1.28	-3.35	-5.69
10:15:00	-1.8	0.87	-1.78	3.05	1.00	-1.06	-2.06	-4.11
10:30:00	9.51	0.86	-2.64	4.10	0.95	-1.98	-3.15	-6.07
10:45:00	5.02	0.9	-1.5	4.29	0.98	-1.88	-3.31	-6.17
11:00:00	5.48	0.91	1.81	4.46	0.89	-1.20	-3.57	-5.67
11:15:00	5.43	0.94	-3.47	4.73	0.90	-1.52	-3.83	-6.24
11:30:00	5.67	1.15	-2.56	6.22	0.95	-1.67	-5.27	-7.89
11:45:00	-0.34	1.02	-3.13	4.25	0.98	-1.77	-3.27	-6.02
12:00:00	9.16	0.81	-3.6	5.08	0.97	-2.19	-4.11	-7.27
12:15:00	23.51	0.83	-3.7	8.69	0.95	-3.29	-7.74	-11.98
12:30:00	7.86	1.96	-4.16	9.17	1.15	-3.43	-8.02	-12.60
12:45:00	-1.95	2.32	-4.6	7.65	1.39	-3.84	-6.26	-11.49
13:00:00	5.74	1.1	-4.68	8.86	1.40	-4.15	-7.46	-13.01
13:15:00	--	--	-5.21	8.79	1.55	-4.47	-7.24	-13.26
13:30:00	4.99	2.23	-5.13	4.16	1.90	-4.76	-2.26	-8.92
13:45:00	4.7	1.41	-5.42	3.37	1.77	-5.01	-1.61	-8.38
14:00:00	4.77	0.72	-5.52	5.05	1.37	-5.19	-3.69	-10.24
14:15:00	4.99	1.28	-5.69	4.86	1.41	-5.39	-3.45	-10.26
14:30:00	4.76	1.53	-5.54	4.84	1.43	-5.46	-3.41	-10.30
14:45:00	4.17	0.26	-5.28	4.68	1.04	-5.49	-3.64	-10.17
15:00:00	3.28	0.44	-5.25	4.39	0.85	-5.46	-3.55	-9.85
15:15:00	4.17	0.3	-5.1	4.27	0.76	-5.37	-3.51	-9.65
15:30:00	5.48	-0.06	-4.81	4.37	0.49	-5.20	-3.88	-9.57
15:45:00	4.8	-0.2	-4.82	4.38	0.15	-5.05	-4.23	-9.43
16:00:00	7.16	0.08	-5.24	4.98	0.11	-5.04	-4.87	-10.02
16:15:00	3.63	-0.12	-5.17	5.05	0.00	-5.03	-5.05	-10.08
16:30:00	4.08	-0.01	-4.72	5.03	-0.06	-4.95	-5.09	-9.98
16:45:00	5.52	-0.18	-4.94	5.04	-0.09	-4.98	-5.12	-10.02
17:00:00	3.83	-0.35	-4.87	4.84	-0.12	-4.99	-4.96	-9.83
17:15:00	5.73	-0.32	-4.79	4.56	-0.20	-4.90	-4.75	-9.46
17:30:00	5.57	-0.43	-4.36	4.95	-0.26	-4.74	-5.20	-9.68
17:45:00	3.9	0.34	-4	4.91	-0.19	-4.59	-5.10	-9.50
18:00:00	4.61	--	-3.08	4.73	-0.19	-4.22	-4.92	-8.95