

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

**PERIOD: November 1 – November 5, 2021**

**Date of Report: November 10, 2021**

## **Report Contents**

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

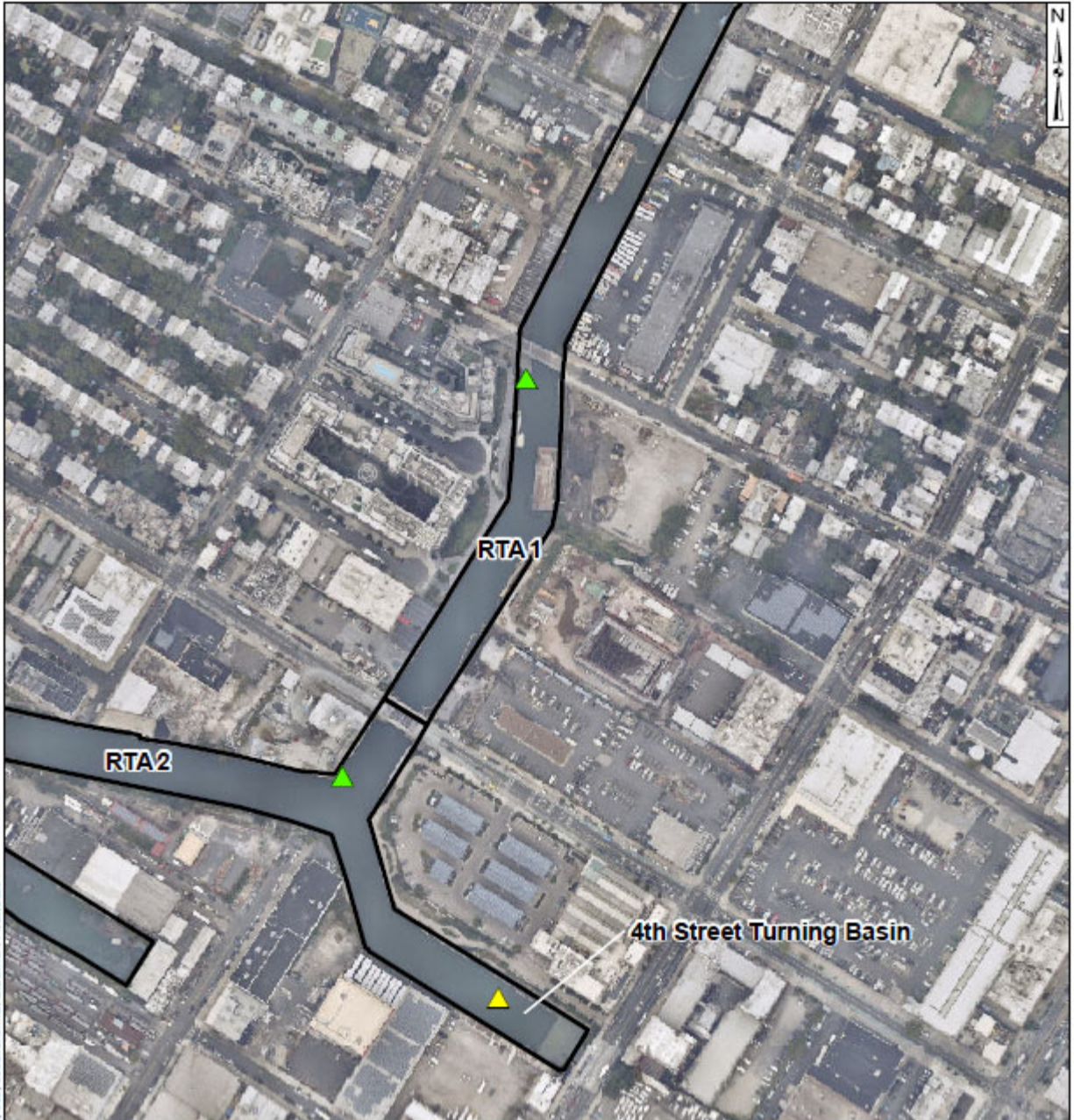
**B&B Engineers & Geologists**   
of new york, p.c.

*an affiliate of Geosyntec Consultants*

1255 Roberts Blvd, Suite 200  
Kennesaw, GA 30144  
Project Number JR0289A

## 1. SCOPE OF MONITORING

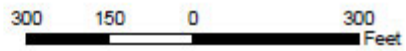
The following report summarizes water quality monitoring data collected during the week of November 1, 2021. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll 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. A map indicating the approximate locations of the turbidity buoys during this reporting period is provided in **Figure 1**. 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. This report presents a summary of turbidity data collected from the ambient and sentinel buoys between 7 AM and 6 PM each day during the week of November 1. Daily turbidity data tables are provided in **Appendix A**. No handheld measurements were collected during this reporting period. Visual observations of turbidity and sheen are summarized in Section 4.



C:\Users\jw\OneDrive\Documents\B&B\Projects\Gowanus Canal\Turbidity Buoy Locations.mxd; 01/17/2021

**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 exceedance of the trigger or action criteria occurred during the reporting period.

- **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.

No exceedance of the trigger or action criteria occurred 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 November 1 – November 5, 2021. Power supply outages to the 3<sup>rd</sup> Street Sentinel Buoy resulted in some data gaps during the reporting period. Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded.

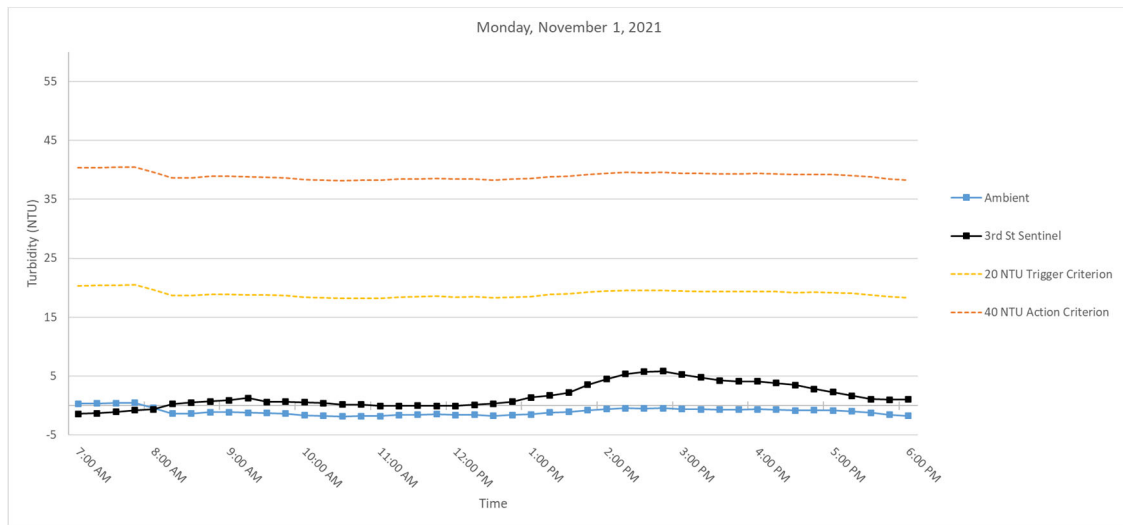
Section 2.1 contains further information on these exceedances. **Table 1** below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)		Maximum Rolling Average Difference (NTU)	
	3rd St - Ambient	Carroll St - Ambient	3rd St - Ambient	Carroll St - Ambient
Monday, November 1, 2021	2.61	--	6.28	--
Tuesday, November 2, 2021	2.03	--	3.93	--
Wednesday, November 3, 2021	1.19	--	1.73	--
Thursday, November 4, 2021	1.56	--	1.76	--
Friday, November 5, 2021	--	--	--	--

**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, November 1, 2021

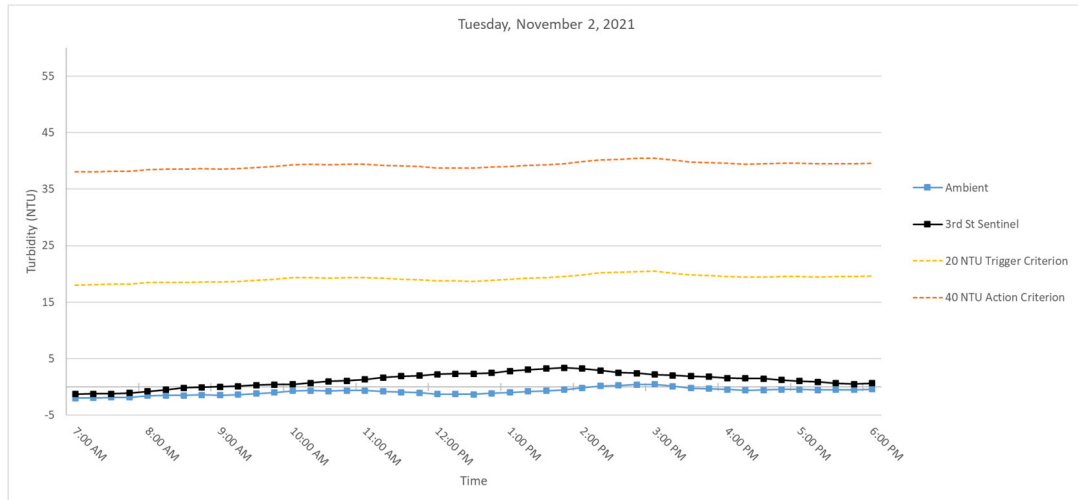
**Figure 2.** Hourly rolling average turbidity readings on Monday, November 1, 2021 from 7 AM to 6 PM.



**Note:** Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded.

### 3.2 Tuesday, November 2, 2021

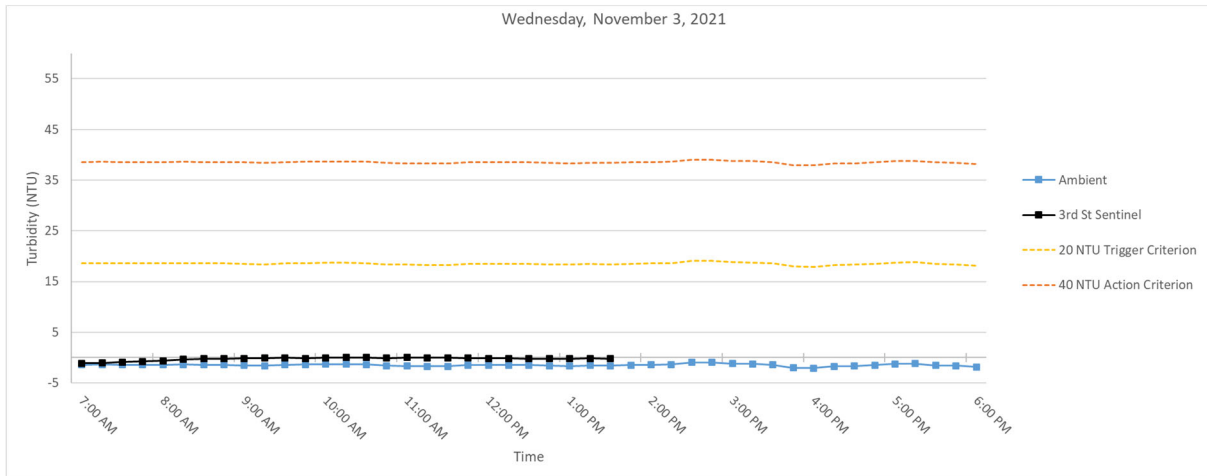
**Figure 3.** Hourly rolling average turbidity readings on Tuesday, November 2, 2021 from 7 AM to 6 PM.



**Note:** Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded.

### 3.3 Wednesday, November 3, 2021

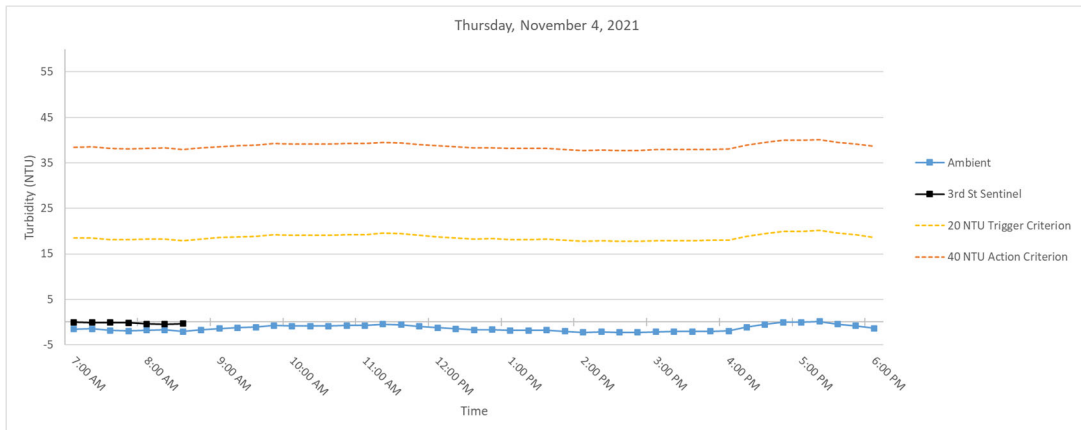
**Figure 4.** Hourly rolling average turbidity readings on Wednesday, November 3, 2021 from 7 AM to 6 PM.



**Note:** Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded. The 3<sup>rd</sup> Street Sentinel Buoy power supply failed at 1:30 PM on November 3<sup>rd</sup>.

### 3.4 Thursday, November 4, 2021

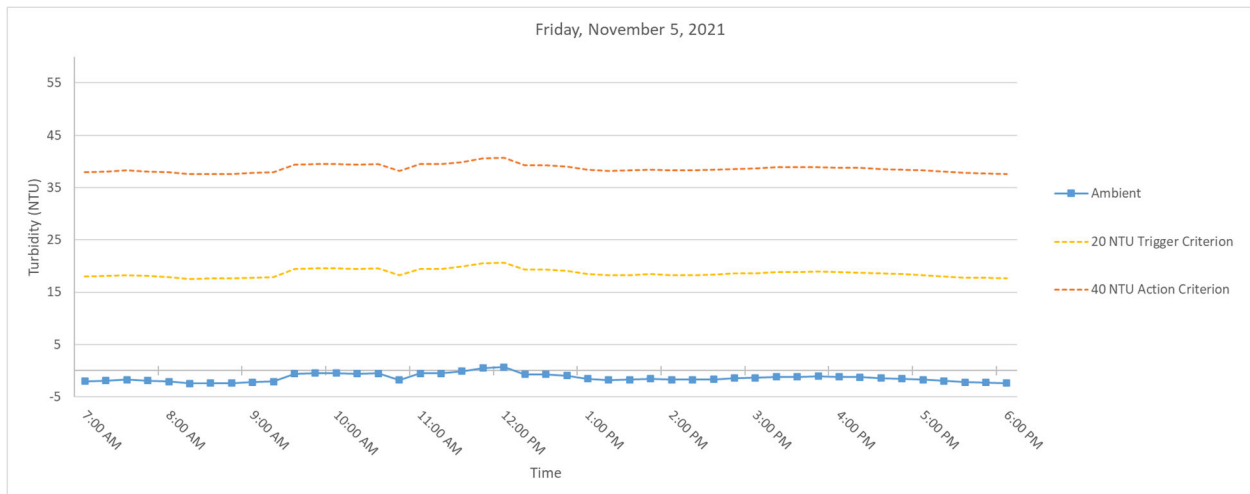
**Figure 5.** Hourly rolling average turbidity readings on Thursday, November 4, 2021 from 7 AM to 6 PM.



**Note:** Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded. The 3<sup>rd</sup> Street Sentinel Buoy power supply failed at 1:30 PM on November 3<sup>rd</sup> and returned momentarily from 7 AM to 8:30 AM on November 4<sup>th</sup>.

### 3.5 Friday, November 5, 2021

**Figure 6.** Hourly rolling average turbidity readings on Friday, November 5, 2021 from 7 AM to 6 PM.



**Note:** Debris obstructing the turbidity sensor on the Carroll Street Sentinel Buoy resulted in erroneous turbidity readings from November 1<sup>st</sup> to November 5<sup>th</sup> and were discarded. The 3<sup>rd</sup> Street Sentinel Buoy power supply failed at 1:00 PM on November 3<sup>rd</sup> and returned momentarily from 7 AM to 8:30 AM on November 4<sup>th</sup>.

## **SUMMARY OF VISUAL OBSERVATIONS**

Sheen above background conditions was observed within the mixing area during ISS demo operations. Sheen was contained by absorbent booms encompassing the mixing area.



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

## Monday, November 1, 2021

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	3.46	-1.62	--	0.35	-1.36	--	-1.71	--
7:15:00	-1.53	-0.76	--	0.39	-1.30	--	-1.68	--
7:30:00	-1.53	-0.17	--	0.43	-1.06	--	-1.48	--
7:45:00	-1.34	-0.15	--	0.50	-0.78	--	-1.29	--
8:00:00	-1.05	-0.31	--	-0.40	-0.60	--	-0.20	--
8:15:00	-1.21	2.79	--	-1.33	0.28	--	1.61	--
8:30:00	-1.51	--	--	-1.33	0.54	--	1.87	--
8:45:00	-0.3	0.59	--	-1.08	0.73	--	1.81	--
9:00:00	-1.45	0.56	--	-1.10	0.91	--	2.01	--
9:15:00	-1.55	1.21	--	-1.20	1.29	--	2.49	--
9:30:00	-1.44	0.09	--	-1.25	0.61	--	1.86	--
9:45:00	-1.98	0.93	--	-1.34	0.68	--	2.02	--
10:00:00	-1.71	0.06	--	-1.63	0.57	--	2.20	--
10:15:00	-1.96	-0.05	--	-1.73	0.45	--	2.18	--
10:30:00	-1.97	-0.03	--	-1.81	0.20	--	2.01	--
10:45:00	-1.25	-0.01	--	-1.77	0.18	--	1.95	--
11:00:00	-1.86	-0.06	--	-1.75	-0.02	--	1.73	--
11:15:00	-0.81	--	--	-1.57	-0.04	--	1.53	--
11:30:00	-1.66	0.08	--	-1.51	-0.01	--	1.51	--
11:45:00	-1.6	-0.19	--	-1.44	-0.05	--	1.39	--
12:00:00	-2.05	--	--	-1.60	-0.06	--	1.54	--
12:15:00	-1.51	0.56	--	-1.53	0.15	--	1.68	--
12:30:00	-1.66	0.88	--	-1.70	0.33	--	2.03	--
12:45:00	-1.01	1.54	--	-1.57	0.70	--	2.26	--
13:00:00	-1.11	2.6	--	-1.47	1.40	--	2.86	--
13:15:00	-0.42	3.06	--	-1.14	1.73	--	2.87	--
13:30:00	-1.03	3.01	--	-1.05	2.22	--	3.26	--
13:45:00	-0.19	7.61	--	-0.75	3.56	--	4.32	--
14:00:00	0	6.37	--	-0.55	4.53	--	5.08	--
14:15:00	-0.6	6.87	--	-0.45	5.38	--	5.83	--
14:30:00	-0.65	4.93	--	-0.49	5.76	--	6.25	--
14:45:00	-0.67	3.53	--	-0.42	5.86	--	6.28	--
15:00:00	-0.83	4.79	--	-0.55	5.30	--	5.85	--
15:15:00	-0.33	3.84	--	-0.62	4.79	--	5.41	--
15:30:00	-0.84	4.21	--	-0.66	4.26	--	4.92	--
15:45:00	-0.6	4.37	--	-0.65	4.15	--	4.80	--
16:00:00	-0.39	3.47	--	-0.60	4.14	--	4.73	--
16:15:00	-1.2	3.27	--	-0.67	3.83	--	4.50	--
16:30:00	-0.97	2.14	--	-0.80	3.49	--	4.29	--
16:45:00	-0.73	1.01	--	-0.78	2.85	--	3.63	--
17:00:00	--	1.57	--	-0.82	2.29	--	3.11	--
17:15:00	-0.91	0.53	--	-0.95	1.70	--	2.66	--
17:30:00	-2.14	0.27	--	-1.19	1.10	--	2.29	--
17:45:00	-2.26	1.72	--	-1.51	1.02	--	2.53	--
18:00:00	-1.49	1.28	--	-1.70	1.07	--	2.77	--

## Tuesday, November 2, 2021

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	-1.72	-1.42	--	-1.94	-1.25	--	0.70	--
7:15:00	-1.85	-1.12	--	-1.93	-1.21	--	0.73	--
7:30:00	-2.28	-0.49	--	-1.80	-1.18	--	0.63	--
7:45:00	-0.97	-0.55	--	-1.83	-1.04	--	0.79	--
8:00:00	-0.81	-0.24	--	-1.53	-0.76	--	0.76	--
8:15:00	-1.47	0.12	--	-1.48	-0.46	--	1.02	--
8:30:00	-1.98	0.43	--	-1.50	-0.15	--	1.36	--
8:45:00	-1.77	--	--	-1.40	-0.06	--	1.34	--
9:00:00	-1.1	-0.12	--	-1.43	0.05	--	1.47	--
9:15:00	-0.4	0.25	--	-1.34	0.17	--	1.51	--
9:30:00	-0.35	0.78	--	-1.12	0.34	--	1.46	--
9:45:00	-1.17	0.86	--	-0.96	0.44	--	1.40	--
10:00:00	-0.34	0.77	--	-0.67	0.51	--	1.18	--
10:15:00	-0.81	1.03	--	-0.61	0.74	--	1.35	--
10:30:00	-0.85	1.67	--	-0.70	1.02	--	1.73	--
10:45:00	0.04	1.27	--	-0.63	1.12	--	1.75	--
11:00:00	-1.13	2.06	--	-0.62	1.36	--	1.98	--
11:15:00	-1	2.37	--	-0.75	1.68	--	2.43	--
11:30:00	-1.59	2.3	--	-0.91	1.93	--	2.84	--
11:45:00	-1.31	2.06	--	-1.00	2.01	--	3.01	--
12:00:00	-1.21	2.54	--	-1.25	2.27	--	3.51	--
12:15:00	-1.01	2.52	--	-1.22	2.36	--	3.58	--
12:30:00	-1.21	2.33	--	-1.27	2.35	--	3.62	--
12:45:00	-0.68	3.01	--	-1.08	2.49	--	3.58	--
13:00:00	-0.59	3.8	--	-0.94	2.84	--	3.78	--
13:15:00	-0.25	3.8	--	-0.75	3.09	--	3.84	--
13:30:00	-0.63	3.33	--	-0.67	3.25	--	3.93	--
13:45:00	-0.3	3.19	--	-0.49	3.43	--	3.92	--
14:00:00	1.01	2.33	--	-0.15	3.29	--	3.44	--
14:15:00	1.18	2.07	--	0.20	2.94	--	2.74	--
14:30:00	0.32	1.83	--	0.32	2.55	--	2.23	--
14:45:00	0.06	2.87	--	0.45	2.46	--	2.00	--
15:00:00	-0.19	1.98	--	0.48	2.22	--	1.74	--
15:15:00	-0.55	1.54	--	0.16	2.06	--	1.89	--
15:30:00	-0.5	1.5	--	-0.17	1.94	--	2.12	--
15:45:00	--	1.34	--	-0.30	1.85	--	2.14	--
16:00:00	-0.42	1.54	--	-0.42	1.58	--	2.00	--
16:15:00	-0.78	1.71	--	-0.56	1.53	--	2.09	--
16:30:00	-0.46	1.31	--	-0.54	1.48	--	2.02	--
16:45:00	0	0.3	--	-0.42	1.24	--	1.66	--
17:00:00	-0.53	0.51	--	-0.44	1.07	--	1.51	--
17:15:00	-0.92	0.69	--	-0.54	0.90	--	1.44	--
17:30:00	--	--	--	-0.48	0.70	--	1.18	--
17:45:00	-0.49	0.56	--	-0.49	0.52	--	1.00	--
18:00:00	0.35	1.01	--	-0.40	0.69	--	1.09	--

## Wednesday, November 3, 2021

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	-1.58	-1.35	--	-1.44	-1.11	--	0.33	--
7:15:00	-1.22	-0.91	--	-1.37	-1.03	--	0.34	--
7:30:00	-1.42	-0.26	--	-1.41	-0.85	--	0.56	--
7:45:00	-1.4	-0.54	--	-1.40	-0.77	--	0.64	--
8:00:00	-1.4	-0.17	--	-1.40	-0.65	--	0.76	--
8:15:00	-1.4	0.08	--	-1.37	-0.36	--	1.01	--
8:30:00	-1.4	-0.05	--	-1.40	-0.19	--	1.22	--
8:45:00	-1.55	-0.4	--	-1.43	-0.22	--	1.21	--
9:00:00	-1.82	-0.24	--	-1.51	-0.16	--	1.36	--
9:15:00	-1.88	0.01	--	-1.61	-0.12	--	1.49	--
9:30:00	-0.57	0.39	--	-1.44	-0.06	--	1.39	--
9:45:00	-1.1	-0.55	--	-1.38	-0.16	--	1.23	--
10:00:00	-1.08	0.1	--	-1.29	-0.06	--	1.23	--
10:15:00	-1.78	0.09	--	-1.28	0.01	--	1.29	--
10:30:00	-2.25	-0.05	--	-1.36	0.00	--	1.35	--
10:45:00	-1.66	--	--	-1.57	-0.10	--	1.47	--
11:00:00	-1.48	-0.01	--	-1.65	0.03	--	1.68	--
11:15:00	-1.53	-0.06	--	-1.74	-0.01	--	1.73	--
11:30:00	-1.54	--	--	-1.69	-0.04	--	1.65	--
11:45:00	-1.22	-0.15	--	-1.49	-0.07	--	1.41	--
12:00:00	-1.55	-0.33	--	-1.46	-0.14	--	1.33	--
12:15:00	-1.42	-0.08	--	-1.45	-0.16	--	1.30	--
12:30:00	-1.73	-0.19	--	-1.49	-0.19	--	1.30	--
12:45:00	-2.02	--	--	-1.59	-0.19	--	1.40	--
13:00:00	-1.6	--	--	-1.66	-0.20	--	1.46	--
13:15:00	-0.91	--	--	-1.54	-0.14	--	1.40	--
13:30:00	-1.79	--	--	-1.61	-0.19	--	1.42	--
13:45:00	-1	--	--	-1.46	--	--	--	--
14:00:00	-1.8	--	--	-1.42	--	--	--	--
14:15:00	-1.21	--	--	-1.34	--	--	--	--
14:30:00	1.03	--	--	-0.95	--	--	--	--
14:45:00	-1.69	--	--	-0.93	--	--	--	--
15:00:00	-2.16	--	--	-1.17	--	--	--	--
15:15:00	-2.07	--	--	-1.22	--	--	--	--
15:30:00	-2.13	--	--	-1.40	--	--	--	--
15:45:00	-2.18	--	--	-2.05	--	--	--	--
16:00:00	-1.91	--	--	-2.09	--	--	--	--
16:15:00	-0.29	--	--	-1.72	--	--	--	--
16:30:00	-1.86	--	--	-1.67	--	--	--	--
16:45:00	-1.03	--	--	-1.45	--	--	--	--
17:00:00	-1.11	--	--	-1.24	--	--	--	--
17:15:00	-1.57	--	--	-1.17	--	--	--	--
17:30:00	-2.01	--	--	-1.52	--	--	--	--
17:45:00	-2.19	--	--	-1.58	--	--	--	--
18:00:00	-2.36	--	--	-1.85	--	--	--	--

## Thursday, November 4, 2021

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	-2.22	-0.28	--	-1.56	-0.06	--	1.50	--
7:15:00	-0.26	-0.61	--	-1.49	-0.08	--	1.41	--
7:30:00	-2.5	-0.32	--	-1.86	-0.11	--	1.76	--
7:45:00	-2.5	--	--	-1.93	-0.14	--	1.79	--
8:00:00	-1.49	--	--	-1.79	-0.40	--	1.39	--
8:15:00	-1.74	--	--	-1.70	-0.47	--	1.23	--
8:30:00	-2.12	--	--	-2.07	-0.32	--	1.75	--
8:45:00	-0.76	--	--	-1.72	--	--	--	--
9:00:00	-0.93	--	--	-1.41	--	--	--	--
9:15:00	-0.62	--	--	-1.23	--	--	--	--
9:30:00	--	--	--	-1.11	--	--	--	--
9:45:00	-0.72	--	--	-0.76	--	--	--	--
10:00:00	-1.24	--	--	-0.88	--	--	--	--
10:15:00	-0.99	--	--	-0.89	--	--	--	--
10:30:00	-0.56	--	--	-0.88	--	--	--	--
10:45:00	-0.35	--	--	-0.77	--	--	--	--
11:00:00	--	--	--	-0.79	--	--	--	--
11:15:00	-0.01	--	--	-0.48	--	--	--	--
11:30:00	-1.47	--	--	-0.60	--	--	--	--
11:45:00	-1.9	--	--	-0.93	--	--	--	--
12:00:00	-1.58	--	--	-1.24	--	--	--	--
12:15:00	-2.39	--	--	-1.47	--	--	--	--
12:30:00	-1.33	--	--	-1.73	--	--	--	--
12:45:00	-1.23	--	--	-1.69	--	--	--	--
13:00:00	-2.67	--	--	-1.84	--	--	--	--
13:15:00	-1.44	--	--	-1.81	--	--	--	--
13:30:00	-2.36	--	--	-1.81	--	--	--	--
13:45:00	-2.44	--	--	-2.03	--	--	--	--
14:00:00	-2.49	--	--	-2.28	--	--	--	--
14:15:00	-2.07	--	--	-2.16	--	--	--	--
14:30:00	-2.06	--	--	-2.28	--	--	--	--
14:45:00	-2.25	--	--	-2.26	--	--	--	--
15:00:00	-1.67	--	--	-2.11	--	--	--	--
15:15:00	-2.36	--	--	-2.08	--	--	--	--
15:30:00	-2.05	--	--	-2.08	--	--	--	--
15:45:00	-1.89	--	--	-2.04	--	--	--	--
16:00:00	-1.74	--	--	-1.94	--	--	--	--
16:15:00	2.56	--	--	-1.10	--	--	--	--
16:30:00	0.48	--	--	-0.53	--	--	--	--
16:45:00	0.52	--	--	-0.01	--	--	--	--
17:00:00	-1.99	--	--	-0.03	--	--	--	--
17:15:00	-0.92	--	--	0.13	--	--	--	--
17:30:00	--	--	--	-0.48	--	--	--	--
17:45:00	-0.8	--	--	-0.80	--	--	--	--
18:00:00	-1.79	--	--	-1.38	--	--	--	--

## Friday, November 5, 2021

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	-0.88	--	--	-2.02	--	--	--	--
7:15:00	-2.34	--	--	-1.90	--	--	--	--
7:30:00	-2.18	--	--	-1.74	--	--	--	--
7:45:00	-2.52	--	--	-1.92	--	--	--	--
8:00:00	-2.53	--	--	-2.09	--	--	--	--
8:15:00	-2.74	--	--	-2.46	--	--	--	--
8:30:00	-2.06	--	--	-2.41	--	--	--	--
8:45:00	-2.14	--	--	-2.40	--	--	--	--
9:00:00	-1.51	--	--	-2.20	--	--	--	--
9:15:00	-2.04	--	--	-2.10	--	--	--	--
9:30:00	4.92	--	--	-0.57	--	--	--	--
9:45:00	-1.46	--	--	-0.45	--	--	--	--
10:00:00	-2.17	--	--	-0.45	--	--	--	--
10:15:00	-2.11	--	--	-0.57	--	--	--	--
10:30:00	-1.62	--	--	-0.49	--	--	--	--
10:45:00	-1.66	--	--	-1.80	--	--	--	--
11:00:00	5.04	--	--	-0.50	--	--	--	--
11:15:00	-2.14	--	--	-0.50	--	--	--	--
11:30:00	-0.02	--	--	-0.08	--	--	--	--
11:45:00	1.43	--	--	0.53	--	--	--	--
12:00:00	-0.96	--	--	0.67	--	--	--	--
12:15:00	-1.84	--	--	-0.71	--	--	--	--
12:30:00	-2.1	--	--	-0.70	--	--	--	--
12:45:00	-1.2	--	--	-0.93	--	--	--	--
13:00:00	-1.72	--	--	-1.56	--	--	--	--
13:15:00	-2.01	--	--	-1.77	--	--	--	--
13:30:00	-1.58	--	--	-1.72	--	--	--	--
13:45:00	-1.18	--	--	-1.54	--	--	--	--
14:00:00	-2.03	--	--	-1.70	--	--	--	--
14:15:00	-1.71	--	--	-1.70	--	--	--	--
14:30:00	-1.66	--	--	-1.63	--	--	--	--
14:45:00	-0.47	--	--	-1.41	--	--	--	--
15:00:00	-0.86	--	--	-1.35	--	--	--	--
15:15:00	-1.07	--	--	-1.15	--	--	--	--
15:30:00	-1.69	--	--	-1.15	--	--	--	--
15:45:00	-1.21	--	--	-1.06	--	--	--	--
16:00:00	-1.05	--	--	-1.18	--	--	--	--
16:15:00	-1.25	--	--	-1.25	--	--	--	--
16:30:00	-2.03	--	--	-1.45	--	--	--	--
16:45:00	-2.08	--	--	-1.52	--	--	--	--
17:00:00	-2.2	--	--	-1.72	--	--	--	--
17:15:00	-2.33	--	--	-1.98	--	--	--	--
17:30:00	-2.45	--	--	-2.22	--	--	--	--
17:45:00	-2.14	--	--	-2.24	--	--	--	--
18:00:00	-2.83	--	--	-2.39	--	--	--	--