

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

PERIOD: April 17 – March 21, 2023

Date of Report: April 25, 2023

Report Contents

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1. SCOPE OF MONITORING

1.1 Current Buoy Locations

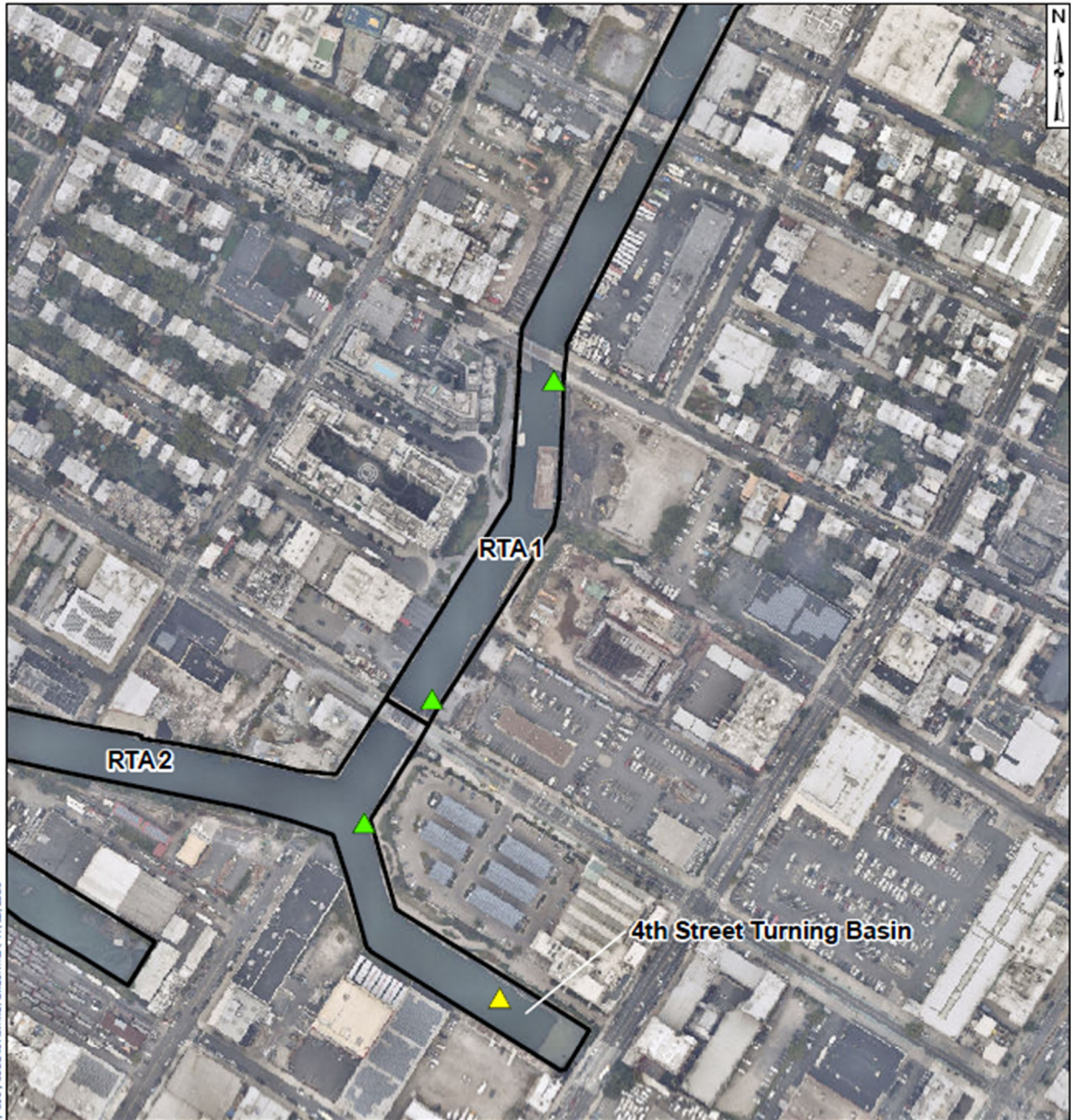
The following report summarizes water quality monitoring data collected during the week of April 17, 2023. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity related to dredging activities. One turbidity buoy was deployed just south of the 3rd Street Bridge outside of the air curtain and traditional turbidity curtain and is referred to as the 3rd Street Sentinel Buoy. A second turbidity buoy was deployed just south of Carroll St Bridge to monitor dredging activities north of 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 and is referred to as the Ambient Buoy.

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.

1.2 Previous Buoy Locations




- 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 3rd Street Bridge in preparation for the resumption of ISS operations. On December 8, 2021, a sentinel buoy was re-deployed just south of the Carroll Street Bridge.
- Since December 8, 2021, the sentinel buoy deployed at the northern-most portion of the canal has alternated positioning between the Union Street Bridge and Carroll Street Bridge locations based on the in-canal construction activities being conducted at any given time.

- On January 9, 2023, the Carroll Street Sentinel Buoy was moved to the Third Street Bridge location and renamed the Third Street Sentinel Buoy. Additionally, the former Third Street Sentinel Buoy was removed from the canal for servicing.
- On February 6, 2023, the newly serviced Third Street Sentinel Buoy was reinstalled at Third Street Bridge, and the former Carroll Street Sentinel Buoy was reinstalled at Carroll Street Bridge.
- The Ambient Buoy was removed from service on Friday, February 17, 2023, due to a faulty communications system. Following investigation into the cause of the fault and the appropriate repairs made, the Ambient Buoy was returned to service on Thursday, April 13, 2023.
- On Thursday April 13, 2023, the Carroll Street Sentinel Buoy was assessed to be within 100ft of in-canal construction activities being conducted at Carroll Street Bridge, and consequently was repositioned to the North Third Street Sentinel Buoy location.



\\fileserver\Gowanus\RA\03_GIS\mxd\Canal\Wide\Turbidity_Buoy_Locations.mxd; abaufm; 11/23/2020

Legend

-  Ambient Buoy
-  Sentinel Buoy
-  RTA Boundary

300 150 0 300
Feet

Turbidity Buoy Locations

Gowanus Canal, Brooklyn, NY

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Figure

1

Brooklyn, NY

April 2023

2. REPORT OF EXCEEDANCES

No exceedances due to remedial construction-related activities to the quantitative trigger or action criteria were observed 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 exceedances due to remedial construction-related activities to the quantitative trigger or action criteria were observed 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 April 17 – April 21, 2023.

No exceedances due to remedial construction-related activities to the quantitative trigger or action criteria were observed during the reporting period.

Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

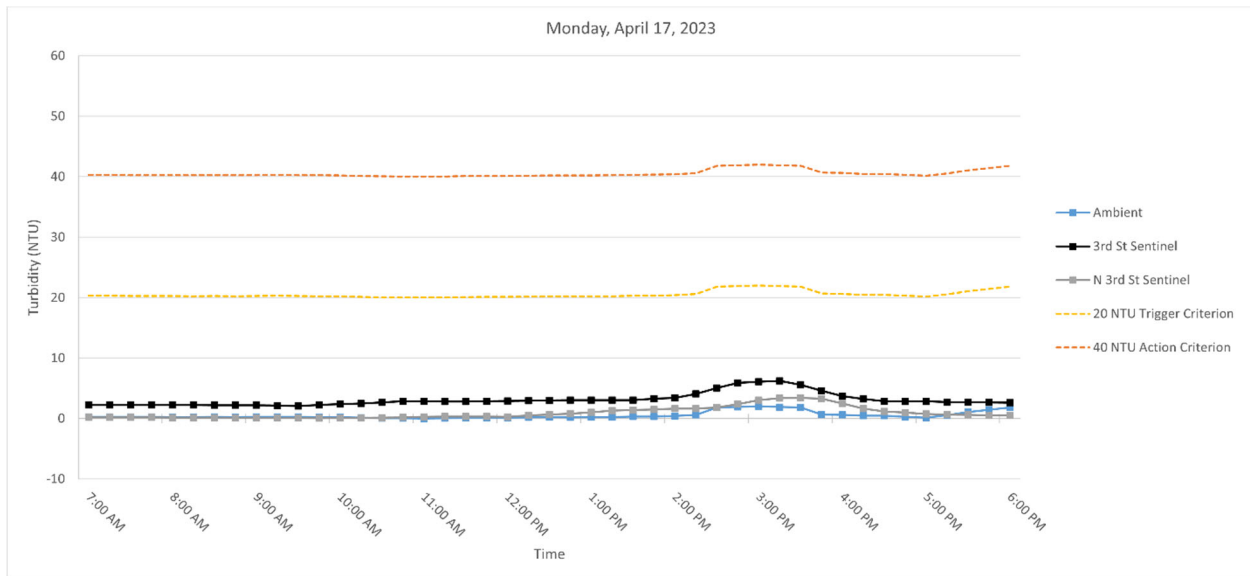
Table 1 below provides a summary of the turbidity data for the reporting period.

| Date | Average Rolling Average Difference (NTU) | | Maximum Rolling Average Difference (NTU) | |
|---------------------------|--|--------------------|--|--------------------|
| | 3rd St - Ambient | N 3rd St - Ambient | 3rd St - Ambient | N 3rd St - Ambient |
| Monday, April 17, 2023 | 2.40 | 0.20 | 4.08 | 2.44 |
| Tuesday, April 18, 2023 | 3.19 | 2.03 | 5.25 | 4.12 |
| Wednesday, April 19, 2023 | 3.56 | 3.09 | 5.73 | 5.90 |
| Thursday, April 20, 2023 | 2.70 | 1.45 | 3.37 | 2.70 |
| Friday, April 21, 2023 | 3.10 | 2.59 | 5.58 | 7.98 |

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, April 17, 2023

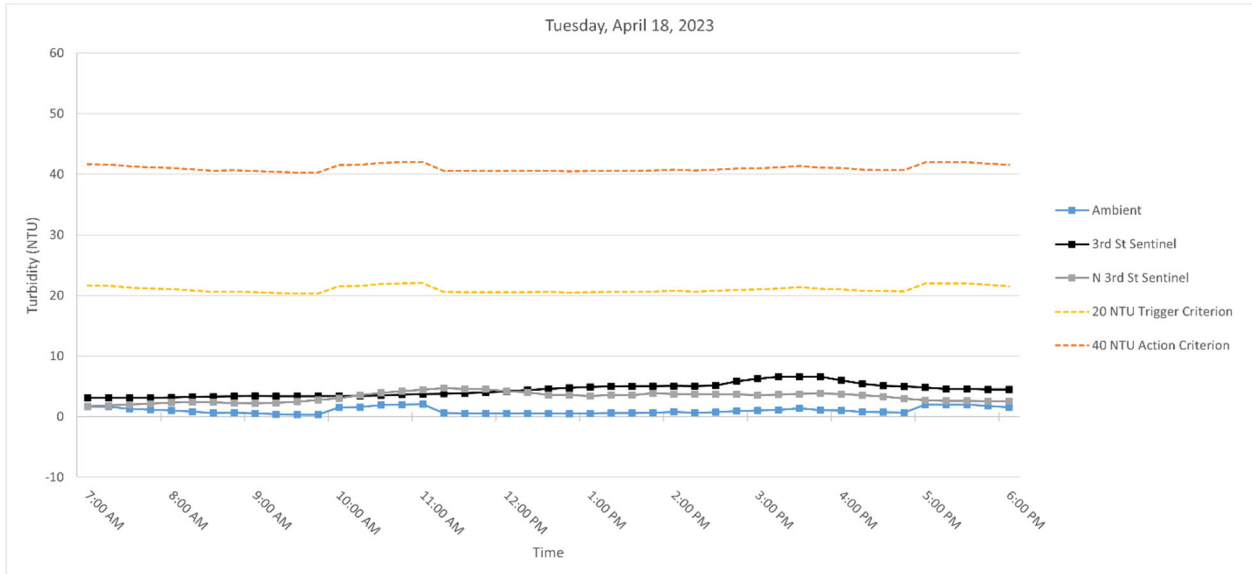
Figure 3. Hourly rolling average turbidity readings on Monday, April 17, 2023, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points in the above figure were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

3.2 Tuesday, April 18, 2023

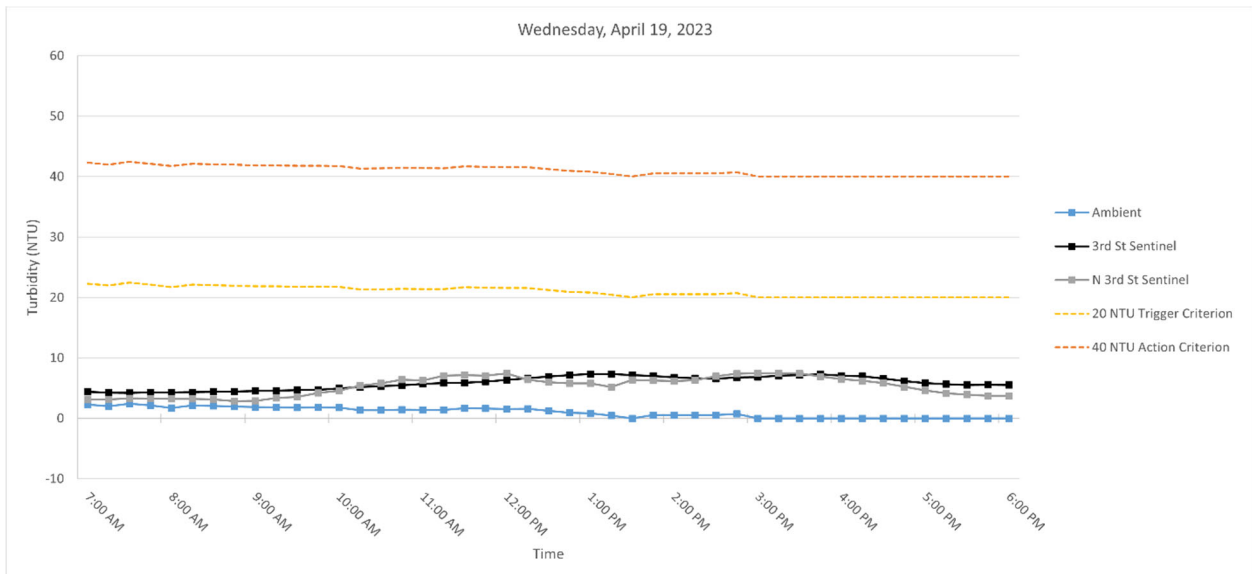
Figure 3. Hourly rolling average turbidity readings on Tuesday, April 18, 2023, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points in the above figure were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

3.3 Wednesday, April 19, 2023

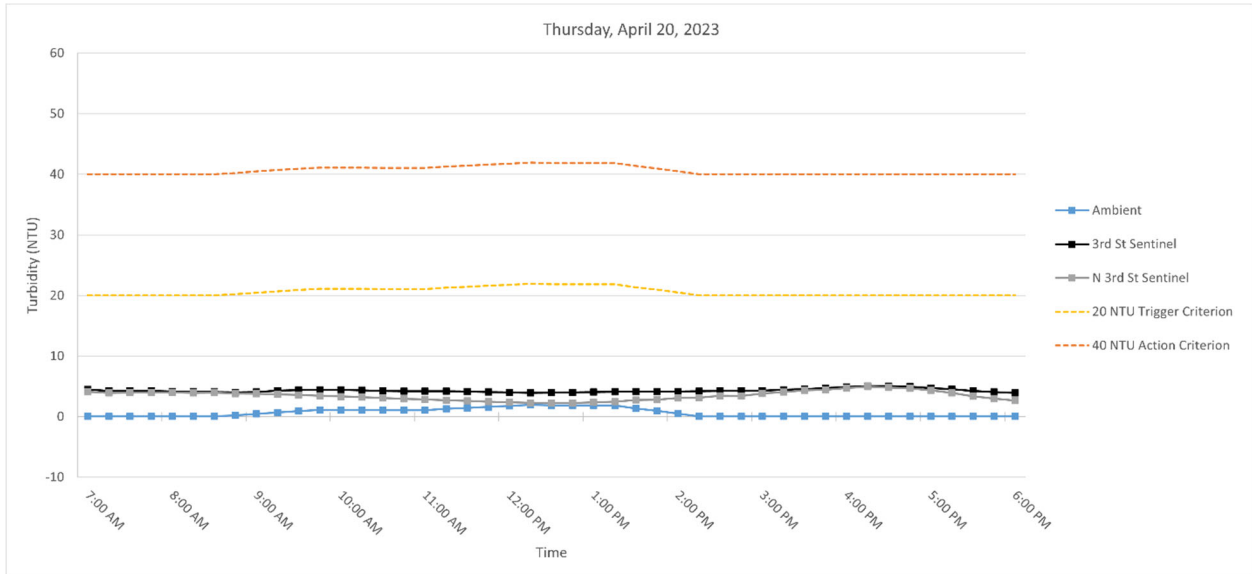
Figure 4. Hourly rolling average turbidity readings on Wednesday, April 19, 2023, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points in the above figure were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

3.4 Thursday, April 20, 2023

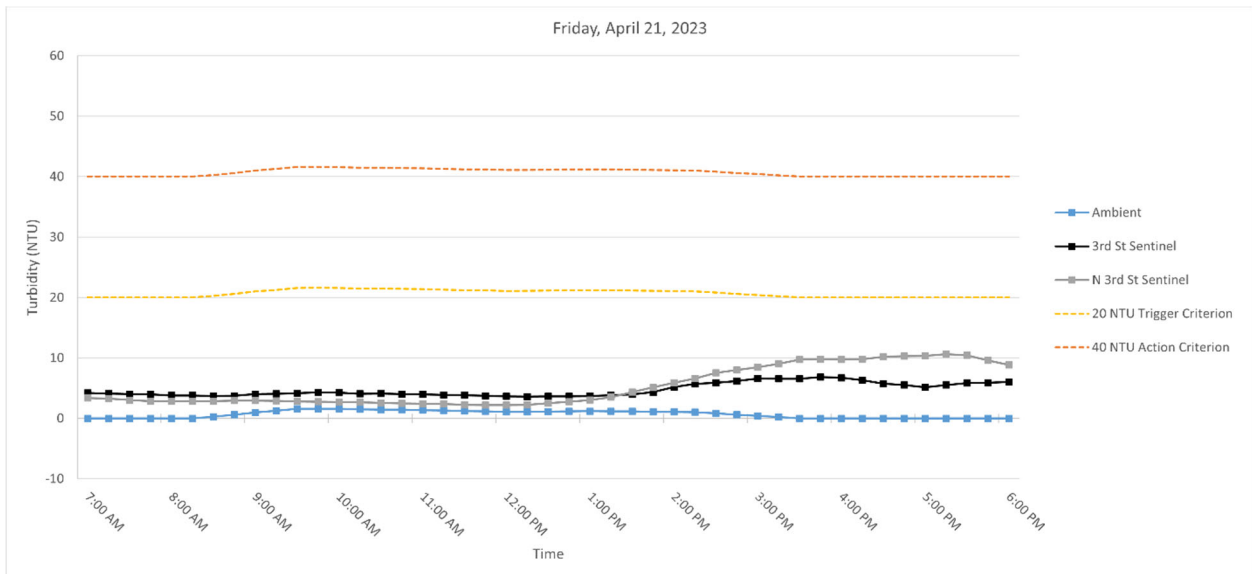
Figure 5. Hourly rolling average turbidity readings on Thursday, April 20, 2023, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points in the above figure were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

3.5 Friday, April 21, 2023

Figure 6. Hourly rolling average turbidity readings on Friday, April 21, 2023, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. Due to power issues with the Ambient Buoy creating data gaps in background turbidity readings, several data points in the above figure were assigned a conservative background turbidity reading of 0 NTU. These data gaps are correspondingly denoted “N/A” in the tables attached in Appendix A.

SUMMARY OF VISUAL OBSERVATIONS

Visual indications of elevated turbidity were periodically observed during the reporting period attributable to capping activities. No sheens attributable to in-canal work operations were observed above background conditions. Turbid discharges were observed during the reporting period from storm water outfalls, including from the high-level storm sewer pipe adjacent to OH-005, and also from the southwest corner of active construction site at 420 Carroll Street adjacent to the First Street Turning Basin. Examples of these discharges are shown in the figures below.

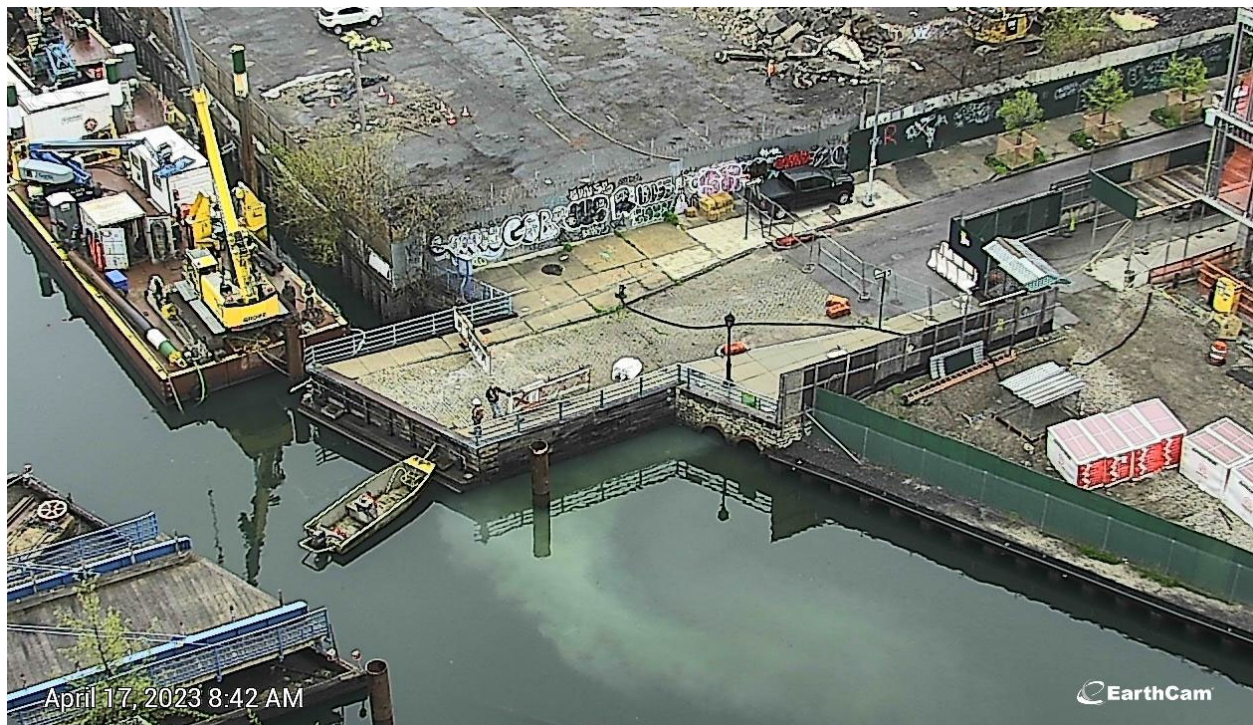


Figure 7. Sheen discharge from high level storm sewer pipe on April 17, 2023 at 8:45 AM.



Figure 8. Discharge from southwest corner of 420 Carroll on April 18, 2023 at 11:30 AM.



Figure 9. Turbid discharge from southwest corner of 420 Carroll on April 18, 2023 at 2:15 PM.

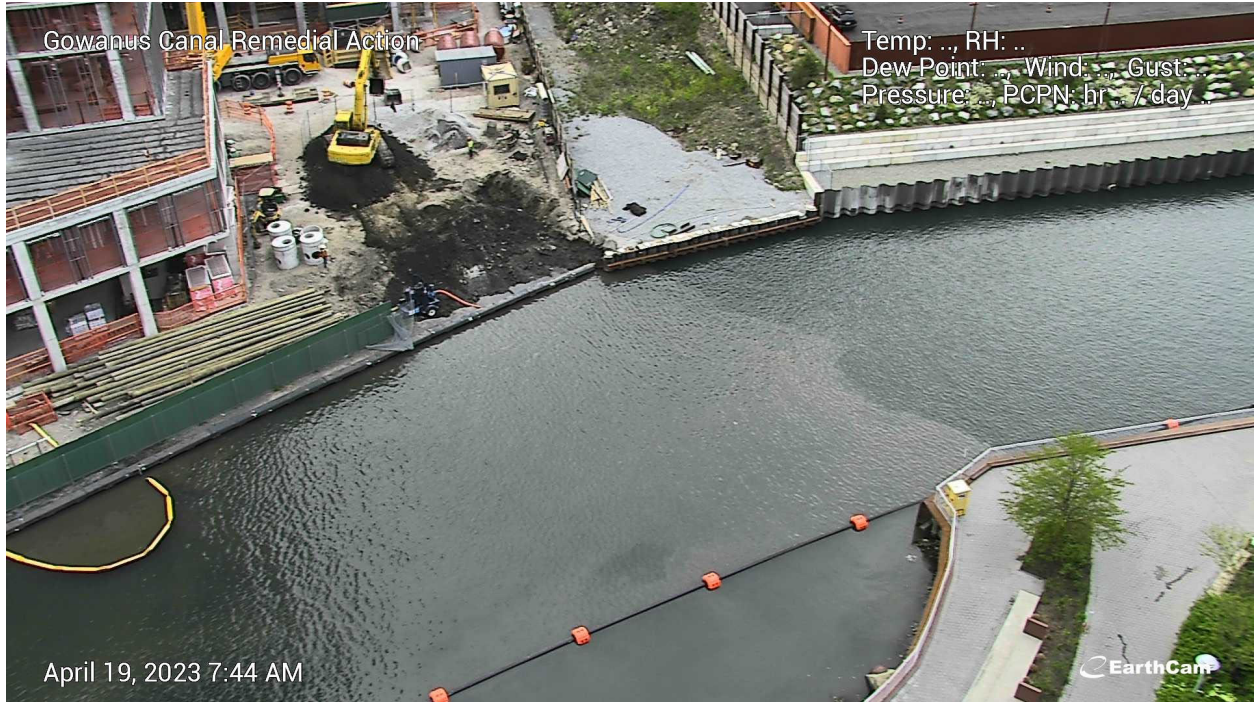


Figure 10. Turbid discharge from southwest corner of 420 Carroll on April 19, 2023 at 7:45 AM.



Figure 11. Turbid discharge from southwest corner of 420 Carroll on April 20, 2023 at 11:45 AM.

APPENDIX A
Turbidity Data Tables

Monday, April 17, 2023

| Time | Turbidity (NTU) | | | Rolling Average Turbidity (NTU) | | | Difference (NTU) | |
|----------|-----------------|------------|--------------|---------------------------------|------------|--------------|------------------|--------------------|
| | Ambient | 3rd Street | N 3rd Street | Ambient | 3rd Street | N 3rd Street | 3rd St - Ambient | N 3rd St - Ambient |
| 7:00:00 | 0.26 | 2.1 | 0.21 | 0.30 | 2.23 | 0.18 | 1.93 | -0.12 |
| 7:15:00 | 0.21 | 2.23 | 0.17 | 0.29 | 2.23 | 0.17 | 1.94 | -0.12 |
| 7:30:00 | 0.26 | 2.32 | 0.33 | 0.27 | 2.24 | 0.19 | 1.96 | -0.08 |
| 7:45:00 | 0.29 | 2.22 | 0.04 | 0.27 | 2.24 | 0.18 | 1.96 | -0.09 |
| 8:00:00 | 0.23 | 2.24 | 0.01 | 0.25 | 2.22 | 0.15 | 1.97 | -0.10 |
| 8:15:00 | 0.22 | 2.2 | 0.05 | 0.24 | 2.24 | 0.12 | 2.00 | -0.12 |
| 8:30:00 | 0.29 | 1.98 | 0.27 | 0.26 | 2.19 | 0.14 | 1.93 | -0.12 |
| 8:45:00 | 0.16 | 2.27 | 0.07 | 0.24 | 2.18 | 0.09 | 1.94 | -0.15 |
| 9:00:00 | 0.39 | 2.19 | 0.07 | 0.26 | 2.18 | 0.09 | 1.92 | -0.16 |
| 9:15:00 | 0.41 | 2.06 | 0.09 | 0.29 | 2.14 | 0.11 | 1.85 | -0.18 |
| 9:30:00 | 0.13 | 1.86 | 0.01 | 0.28 | 2.07 | 0.10 | 1.80 | -0.17 |
| 9:45:00 | 0.09 | 2.78 | 0.06 | 0.24 | 2.23 | 0.06 | 2.00 | -0.18 |
| 10:00:00 | 0.02 | 3.03 | 0.16 | 0.21 | 2.38 | 0.08 | 2.18 | -0.13 |
| 10:15:00 | 0.02 | 2.72 | 0.17 | 0.13 | 2.49 | 0.10 | 2.36 | -0.04 |
| 10:30:00 | 0.01 | 2.85 | 0.25 | 0.05 | 2.65 | 0.13 | 2.59 | 0.08 |
| 10:45:00 | -- | 2.88 | 0.33 | 0.03 | 2.85 | 0.19 | 2.82 | 0.16 |
| 11:00:00 | 0.02 | 2.7 | 0.43 | 0.02 | 2.84 | 0.27 | 2.82 | 0.25 |
| 11:15:00 | 0.12 | 2.89 | 0.34 | 0.04 | 2.81 | 0.30 | 2.77 | 0.26 |
| 11:30:00 | 0.24 | 2.81 | 0.29 | 0.10 | 2.83 | 0.33 | 2.73 | 0.23 |
| 11:45:00 | -- | 3.06 | 0.13 | 0.13 | 2.87 | 0.30 | 2.74 | 0.18 |
| 12:00:00 | 0.15 | 2.92 | 0.19 | 0.13 | 2.88 | 0.28 | 2.74 | 0.14 |
| 12:15:00 | 0.16 | 3.01 | 1.51 | 0.17 | 2.94 | 0.49 | 2.77 | 0.32 |
| 12:30:00 | 0.29 | 3.2 | 1.13 | 0.21 | 3.00 | 0.65 | 2.79 | 0.44 |
| 12:45:00 | 0.21 | 3.09 | 1.02 | 0.20 | 3.06 | 0.80 | 2.85 | 0.59 |
| 13:00:00 | 0.23 | 3.01 | 1.18 | 0.21 | 3.05 | 1.01 | 2.84 | 0.80 |
| 13:15:00 | 0.31 | 2.89 | 1.63 | 0.24 | 3.04 | 1.29 | 2.80 | 1.05 |
| 13:30:00 | 0.53 | 3.1 | 2 | 0.31 | 3.06 | 1.39 | 2.74 | 1.08 |
| 13:45:00 | 0.39 | 4.27 | 1.74 | 0.33 | 3.27 | 1.51 | 2.94 | 1.18 |
| 14:00:00 | 0.54 | 3.71 | 1.59 | 0.40 | 3.40 | 1.63 | 3.00 | 1.23 |
| 14:15:00 | 1.16 | 6.41 | 1.28 | 0.59 | 4.08 | 1.65 | 3.49 | 1.06 |
| 14:30:00 | 6.47 | 7.68 | 2.42 | 1.82 | 5.03 | 1.81 | 3.22 | -0.01 |
| 14:45:00 | 1 | 7.42 | 4.99 | 1.91 | 5.90 | 2.40 | 3.99 | 0.49 |
| 15:00:00 | 0.82 | 5.19 | 4.97 | 2.00 | 6.08 | 3.05 | 4.08 | 1.05 |
| 15:15:00 | N/A | 4.49 | 3.23 | 2.36 | 6.24 | 3.38 | 3.88 | 1.02 |
| 15:30:00 | 0.79 | 3.16 | 1.53 | 2.27 | 5.59 | 3.43 | 3.32 | 1.16 |
| 15:45:00 | 0.71 | 2.69 | 1.61 | 0.83 | 4.59 | 3.27 | 3.76 | 2.44 |
| 16:00:00 | 0.71 | 2.92 | 0.96 | 0.76 | 3.69 | 2.46 | 2.93 | 1.70 |
| 16:15:00 | N/A | 2.8 | 0.93 | 0.74 | 3.21 | 1.65 | 2.48 | 0.92 |
| 16:30:00 | N/A | 2.65 | 0.79 | 0.74 | 2.84 | 1.16 | 2.11 | 0.43 |
| 16:45:00 | N/A | 2.92 | 0.6 | 0.71 | 2.80 | 0.98 | 2.09 | 0.27 |
| 17:00:00 | N/A | 2.85 | 0.51 | 0.71 | 2.83 | 0.76 | 2.12 | 0.05 |
| 17:15:00 | 2.73 | 2.43 | 0.49 | 2.73 | 2.73 | 0.66 | 0.00 | -2.07 |
| 17:30:00 | 2.51 | 2.76 | 0.54 | 2.62 | 2.72 | 0.59 | 0.10 | -2.03 |
| 17:45:00 | 1.93 | 2.43 | 0.5 | 2.39 | 2.68 | 0.53 | 0.29 | -1.86 |
| 18:00:00 | 1.91 | 2.65 | 0.56 | 2.27 | 2.62 | 0.52 | 0.35 | -1.75 |

Tuesday, April 18, 2023

| Time | Turbidity (NTU) | | | Rolling Average Turbidity (NTU) | | | Difference (NTU) | |
|----------|-----------------|------------|--------------|---------------------------------|------------|--------------|------------------|--------------------|
| | Ambient | 3rd Street | N 3rd Street | Ambient | 3rd Street | N 3rd Street | 3rd St - Ambient | N 3rd St - Ambient |
| 7:00:00 | 1.73 | 2.95 | 1.92 | 1.63 | 3.08 | 1.72 | 1.45 | 0.09 |
| 7:15:00 | 1.62 | 3.21 | 2.5 | 1.61 | 3.13 | 1.84 | 1.53 | 0.24 |
| 7:30:00 | 0 | 3.06 | 2.81 | 1.31 | 3.12 | 1.98 | 1.81 | 0.68 |
| 7:45:00 | 0.91 | 3.01 | 2.31 | 1.15 | 3.08 | 2.16 | 1.93 | 1.01 |
| 8:00:00 | 0.92 | 3.64 | 2.22 | 1.04 | 3.17 | 2.35 | 2.14 | 1.32 |
| 8:15:00 | 0.72 | 3.46 | 2.32 | 0.83 | 3.28 | 2.43 | 2.44 | 1.60 |
| 8:30:00 | 0.4 | 3.51 | 2.29 | 0.59 | 3.34 | 2.39 | 2.75 | 1.80 |
| 8:45:00 | 0.31 | 3.25 | 2.08 | 0.65 | 3.37 | 2.24 | 2.72 | 1.59 |
| 9:00:00 | 0.41 | 3.31 | 2.12 | 0.55 | 3.43 | 2.21 | 2.88 | 1.65 |
| 9:15:00 | 0.19 | 3.39 | 2.71 | 0.41 | 3.38 | 2.30 | 2.98 | 1.90 |
| 9:30:00 | 0.23 | 3.33 | 3.26 | 0.31 | 3.36 | 2.49 | 3.05 | 2.18 |
| 9:45:00 | 0.39 | 3.51 | 3.61 | 0.31 | 3.36 | 2.76 | 3.05 | 2.45 |
| 10:00:00 | 6.47 | 3.56 | 3.47 | 1.54 | 3.42 | 3.03 | 1.88 | 1.50 |
| 10:15:00 | 0.54 | 3.57 | 4.6 | 1.56 | 3.47 | 3.53 | 1.91 | 1.97 |
| 10:30:00 | -- | 3.61 | 4.78 | 1.91 | 3.52 | 3.94 | 1.61 | 2.04 |
| 10:45:00 | 0.59 | 3.95 | 4.62 | 2.00 | 3.64 | 4.22 | 1.64 | 2.22 |
| 11:00:00 | 0.59 | 3.91 | 4.63 | 2.05 | 3.72 | 4.42 | 1.67 | 2.37 |
| 11:15:00 | 0.61 | 3.95 | 4.86 | 0.58 | 3.80 | 4.70 | 3.22 | 4.12 |
| 11:30:00 | 0.46 | 3.91 | 3.94 | 0.56 | 3.87 | 4.57 | 3.30 | 4.00 |
| 11:45:00 | 0.49 | 4.38 | 4.54 | 0.55 | 4.02 | 4.52 | 3.47 | 3.97 |
| 12:00:00 | 0.55 | 4.61 | 3 | 0.54 | 4.15 | 4.19 | 3.61 | 3.65 |
| 12:15:00 | 0.7 | 5.01 | 3.85 | 0.56 | 4.37 | 4.04 | 3.81 | 3.48 |
| 12:30:00 | 0.66 | 4.95 | 2.57 | 0.57 | 4.57 | 3.58 | 4.00 | 3.01 |
| 12:45:00 | N/A | 4.9 | 4.09 | 0.60 | 4.77 | 3.61 | 4.17 | 3.01 |
| 13:00:00 | 0.76 | 5.12 | 3.5 | 0.67 | 4.92 | 3.40 | 4.25 | 2.73 |
| 13:15:00 | 0.87 | 4.95 | 4.05 | 0.75 | 4.99 | 3.61 | 4.24 | 2.86 |
| 13:30:00 | 0.66 | 5.2 | 3.6 | 0.74 | 5.02 | 3.56 | 4.29 | 2.82 |
| 13:45:00 | 0.84 | 5.11 | 4.05 | 0.78 | 5.06 | 3.86 | 4.27 | 3.08 |
| 14:00:00 | 0.8 | 4.97 | 3.53 | 0.79 | 5.07 | 3.75 | 4.28 | 2.96 |
| 14:15:00 | N/A | 5.09 | 3.49 | 0.79 | 5.06 | 3.74 | 4.27 | 2.95 |
| 14:30:00 | 1.49 | 5.33 | 3.68 | 0.95 | 5.14 | 3.67 | 4.19 | 2.72 |
| 14:45:00 | 1.55 | 8.78 | 3.6 | 1.17 | 5.86 | 3.67 | 4.69 | 2.50 |
| 15:00:00 | 1.26 | 7.13 | 3.46 | 1.28 | 6.26 | 3.55 | 4.99 | 2.28 |
| 15:15:00 | 1.35 | 6.58 | 3.88 | 1.41 | 6.58 | 3.62 | 5.17 | 2.21 |
| 15:30:00 | 1.28 | 5.06 | 4.18 | 1.39 | 6.58 | 3.76 | 5.19 | 2.37 |
| 15:45:00 | N/A | 5.5 | 3.99 | 1.36 | 6.61 | 3.82 | 5.25 | 2.46 |
| 16:00:00 | 1.24 | 5.68 | 3.19 | 1.28 | 5.99 | 3.74 | 4.71 | 2.46 |
| 16:15:00 | N/A | 4.39 | 2.39 | 1.29 | 5.44 | 3.53 | 4.15 | 2.24 |
| 16:30:00 | 1.12 | 4.82 | 2.9 | 1.21 | 5.09 | 3.33 | 3.88 | 2.12 |
| 16:45:00 | 1.13 | 4.49 | 2.51 | 1.16 | 4.98 | 3.00 | 3.81 | 1.83 |
| 17:00:00 | 6.47 | 4.61 | 2.52 | 2.49 | 4.80 | 2.70 | 2.31 | 0.21 |
| 17:15:00 | 1.2 | 4.51 | 2.73 | 2.48 | 4.56 | 2.61 | 2.08 | 0.13 |
| 17:30:00 | N/A | 4.37 | 2.49 | 2.48 | 4.56 | 2.63 | 2.08 | 0.15 |
| 17:45:00 | N/A | 4.54 | 2.69 | 2.93 | 4.50 | 2.59 | 1.57 | -0.35 |
| 18:00:00 | N/A | 4.42 | 2.49 | 3.84 | 4.49 | 2.58 | 0.66 | -1.25 |

Wednesday, April 19, 2023

| Time | Turbidity (NTU) | | | Rolling Average Turbidity (NTU) | | | Difference (NTU) | |
|----------|-----------------|------------|--------------|---------------------------------|------------|--------------|------------------|--------------------|
| | Ambient | 3rd Street | N 3rd Street | Ambient | 3rd Street | N 3rd Street | 3rd St - Ambient | N 3rd St - Ambient |
| 7:00:00 | N/A | 4.2 | 3.14 | 3.81 | 4.38 | 3.08 | 0.57 | -0.73 |
| 7:15:00 | 2.25 | 4.27 | 3.05 | 3.30 | 4.24 | 3.14 | 0.94 | -0.16 |
| 7:30:00 | 2.34 | 4.05 | 4.15 | 3.06 | 4.20 | 3.31 | 1.14 | 0.26 |
| 7:45:00 | 2.18 | 4.34 | 2.97 | 2.66 | 4.29 | 3.27 | 1.63 | 0.61 |
| 8:00:00 | 1.86 | 4.63 | 2.88 | 2.16 | 4.30 | 3.24 | 2.14 | 1.08 |
| 8:15:00 | 2.09 | 4.32 | 2.98 | 2.14 | 4.32 | 3.21 | 2.18 | 1.06 |
| 8:30:00 | 1.75 | 4.67 | 2.7 | 2.04 | 4.40 | 3.14 | 2.36 | 1.09 |
| 8:45:00 | 1.94 | 4.28 | 2.76 | 1.96 | 4.45 | 2.86 | 2.48 | 0.89 |
| 9:00:00 | 1.67 | 4.67 | 3.04 | 1.86 | 4.51 | 2.87 | 2.65 | 1.01 |
| 9:15:00 | 1.74 | 4.9 | 5.25 | 1.84 | 4.57 | 3.35 | 2.73 | 1.51 |
| 9:30:00 | -- | 4.87 | 3.93 | 1.78 | 4.68 | 3.54 | 2.90 | 1.76 |
| 9:45:00 | 1.86 | 4.98 | 6.15 | 1.80 | 4.74 | 4.23 | 2.94 | 2.42 |
| 10:00:00 | 1.74 | 5.34 | 4.48 | 1.75 | 4.95 | 4.57 | 3.20 | 2.82 |
| 10:15:00 | N/A | 5.73 | 7.31 | 1.78 | 5.16 | 5.42 | 3.38 | 3.64 |
| 10:30:00 | 1.82 | 5.79 | 7.03 | 1.81 | 5.34 | 5.78 | 3.54 | 3.97 |
| 10:45:00 | 1.82 | 5.56 | 7.12 | 1.81 | 5.48 | 6.42 | 3.67 | 4.61 |
| 11:00:00 | 1.64 | 6.04 | 5.28 | 1.76 | 5.69 | 6.24 | 3.94 | 4.49 |
| 11:15:00 | 1.61 | 6.07 | 8.48 | 1.72 | 5.84 | 7.04 | 4.12 | 5.32 |
| 11:30:00 | 1.59 | 6.1 | 7.83 | 1.70 | 5.91 | 7.15 | 4.22 | 5.45 |
| 11:45:00 | 1.46 | 6.64 | 6.66 | 1.62 | 6.08 | 7.07 | 4.46 | 5.45 |
| 12:00:00 | 1.49 | 6.9 | 9.02 | 1.56 | 6.35 | 7.45 | 4.79 | 5.90 |
| 12:15:00 | 1.73 | 7.52 | 0 | 1.58 | 6.65 | 6.40 | 5.07 | 4.82 |
| 12:30:00 | N/A | 7.34 | 6.47 | 1.57 | 6.90 | 6.00 | 5.33 | 4.43 |
| 12:45:00 | N/A | 7.39 | 6.82 | 1.56 | 7.16 | 5.79 | 5.60 | 4.23 |
| 13:00:00 | -- | 7.56 | 6.58 | 1.61 | 7.34 | 5.78 | 5.73 | 4.17 |
| 13:15:00 | N/A | 6.99 | 6.13 | 1.73 | 7.36 | 5.20 | 5.63 | 3.47 |
| 13:30:00 | N/A | 6.56 | 5.69 | -- | 7.17 | 6.34 | -- | -- |
| 13:45:00 | 2.17 | 6.58 | 6.16 | 2.17 | 7.02 | 6.28 | 4.85 | 4.11 |
| 14:00:00 | N/A | 6.16 | 6.35 | 2.17 | 6.77 | 6.18 | 4.60 | 4.01 |
| 14:15:00 | -- | 6.86 | 7.23 | 2.17 | 6.63 | 6.31 | 4.46 | 4.14 |
| 14:30:00 | N/A | 6.59 | 9.33 | 2.17 | 6.55 | 6.95 | 4.38 | 4.78 |
| 14:45:00 | -- | 7.78 | 7.77 | 2.17 | 6.79 | 7.37 | 4.62 | 5.20 |
| 15:00:00 | N/A | 6.67 | 6.66 | -- | 6.81 | 7.47 | -- | -- |
| 15:15:00 | N/A | 7.38 | 6.31 | -- | 7.06 | 7.46 | -- | -- |
| 15:30:00 | N/A | 7.36 | 7.09 | -- | 7.16 | 7.43 | -- | -- |
| 15:45:00 | N/A | 7.38 | 6.71 | -- | 7.31 | 6.91 | -- | -- |
| 16:00:00 | N/A | 6.59 | 5.83 | -- | 7.08 | 6.52 | -- | -- |
| 16:15:00 | N/A | 6.09 | 5.03 | -- | 6.96 | 6.19 | -- | -- |
| 16:30:00 | N/A | 5.53 | 4.5 | -- | 6.59 | 5.83 | -- | -- |
| 16:45:00 | N/A | 5.35 | 3.98 | -- | 6.19 | 5.21 | -- | -- |
| 17:00:00 | N/A | 5.67 | 3.75 | -- | 5.85 | 4.62 | -- | -- |
| 17:15:00 | N/A | 5.69 | 3.5 | -- | 5.67 | 4.15 | -- | -- |
| 17:30:00 | N/A | 5.43 | 3.96 | -- | 5.53 | 3.94 | -- | -- |
| 17:45:00 | N/A | 5.59 | 3.55 | -- | 5.55 | 3.75 | -- | -- |
| 18:00:00 | N/A | 5.14 | 4.02 | -- | 5.50 | 3.76 | -- | -- |

Thursday, April 20, 2023

| Time | Turbidity (NTU) | | | Rolling Average Turbidity (NTU) | | | Difference (NTU) | |
|----------|-----------------|------------|--------------|---------------------------------|------------|--------------|------------------|--------------------|
| | Ambient | 3rd Street | N 3rd Street | Ambient | 3rd Street | N 3rd Street | 3rd St - Ambient | N 3rd St - Ambient |
| 7:00:00 | N/A | 4.17 | 4.15 | -- | 4.49 | 4.09 | -- | -- |
| 7:15:00 | N/A | 4.08 | 3.56 | -- | 4.26 | 3.92 | -- | -- |
| 7:30:00 | N/A | 4.28 | 4.49 | -- | 4.24 | 3.98 | -- | -- |
| 7:45:00 | N/A | 4.29 | 3.87 | -- | 4.23 | 3.99 | -- | -- |
| 8:00:00 | N/A | 3.87 | 3.92 | -- | 4.14 | 4.00 | -- | -- |
| 8:15:00 | N/A | 3.9 | 3.73 | -- | 4.08 | 3.91 | -- | -- |
| 8:30:00 | N/A | 3.91 | 3.84 | -- | 4.05 | 3.97 | -- | -- |
| 8:45:00 | 1.1 | 3.99 | 3.64 | 1.10 | 3.99 | 3.80 | 2.89 | 2.70 |
| 9:00:00 | 1.19 | 4.53 | 3.69 | 1.15 | 4.04 | 3.76 | 2.90 | 2.62 |
| 9:15:00 | 1.19 | 5.03 | 3.44 | 1.16 | 4.27 | 3.67 | 3.11 | 2.51 |
| 9:30:00 | 1.07 | 4.47 | 3.42 | 1.14 | 4.39 | 3.61 | 3.25 | 2.47 |
| 9:45:00 | 1 | 4.13 | 3.09 | 1.11 | 4.43 | 3.46 | 3.32 | 2.35 |
| 10:00:00 | 0.95 | 4.1 | 3.02 | 1.08 | 4.45 | 3.33 | 3.37 | 2.25 |
| 10:15:00 | 1.21 | 4.07 | 3 | 1.08 | 4.36 | 3.19 | 3.28 | 2.11 |
| 10:30:00 | 1.09 | 4.52 | 2.84 | 1.06 | 4.26 | 3.07 | 3.19 | 2.01 |
| 10:45:00 | 1.06 | 4.15 | 2.69 | 1.06 | 4.19 | 2.93 | 3.13 | 1.87 |
| 11:00:00 | 1.01 | 4.25 | 2.73 | 1.06 | 4.22 | 2.86 | 3.15 | 1.79 |
| 11:15:00 | 2.04 | 3.97 | 2.33 | 1.28 | 4.19 | 2.72 | 2.91 | 1.44 |
| 11:30:00 | 1.88 | 3.97 | 2.4 | 1.42 | 4.17 | 2.60 | 2.76 | 1.18 |
| 11:45:00 | 2.01 | 3.91 | 2.23 | 1.60 | 4.05 | 2.48 | 2.45 | 0.88 |
| 12:00:00 | 1.85 | 3.91 | 2.24 | 1.76 | 4.00 | 2.39 | 2.24 | 0.63 |
| 12:15:00 | 2.02 | 3.84 | 2.13 | 1.96 | 3.92 | 2.27 | 1.96 | 0.31 |
| 12:30:00 | 1.58 | 4.25 | 2.15 | 1.87 | 3.98 | 2.23 | 2.11 | 0.36 |
| 12:45:00 | 1.83 | 4.14 | 2.4 | 1.86 | 4.01 | 2.23 | 2.15 | 0.37 |
| 13:00:00 | 2.01 | 4.12 | 2.96 | 1.86 | 4.05 | 2.38 | 2.19 | 0.52 |
| 13:15:00 | -- | 4.23 | 2.72 | 1.86 | 4.12 | 2.47 | 2.26 | 0.61 |
| 13:30:00 | N/A | 3.95 | 3.55 | 1.81 | 4.14 | 2.76 | 2.33 | 0.95 |
| 13:45:00 | N/A | 4.24 | 2.39 | 1.92 | 4.14 | 2.80 | 2.22 | 0.88 |
| 14:00:00 | N/A | 4.25 | 3.65 | 2.01 | 4.16 | 3.05 | 2.15 | 1.04 |
| 14:15:00 | N/A | 4.42 | 3.2 | -- | 4.22 | 3.10 | -- | -- |
| 14:30:00 | N/A | 4.4 | 4.41 | -- | 4.25 | 3.44 | -- | -- |
| 14:45:00 | N/A | 4.1 | 3.39 | -- | 4.28 | 3.41 | -- | -- |
| 15:00:00 | N/A | 4.39 | 4.4 | -- | 4.31 | 3.81 | -- | -- |
| 15:15:00 | N/A | 4.92 | 4.87 | -- | 4.45 | 4.05 | -- | -- |
| 15:30:00 | N/A | 4.88 | 4.72 | -- | 4.54 | 4.36 | -- | -- |
| 15:45:00 | N/A | 5.21 | 4.81 | -- | 4.70 | 4.44 | -- | -- |
| 16:00:00 | N/A | 5.14 | 4.82 | -- | 4.91 | 4.72 | -- | -- |
| 16:15:00 | N/A | 5.1 | 5.61 | -- | 5.05 | 4.97 | -- | -- |
| 16:30:00 | N/A | 4.86 | 4.15 | -- | 5.04 | 4.82 | -- | -- |
| 16:45:00 | N/A | 4.45 | 3.95 | -- | 4.95 | 4.67 | -- | -- |
| 17:00:00 | N/A | 4.1 | 3.12 | -- | 4.73 | 4.33 | -- | -- |
| 17:15:00 | N/A | 4.08 | 2.84 | -- | 4.52 | 3.93 | -- | -- |
| 17:30:00 | N/A | 3.82 | 2.81 | -- | 4.26 | 3.37 | -- | -- |
| 17:45:00 | N/A | 3.77 | 2.19 | -- | 4.04 | 2.98 | -- | -- |
| 18:00:00 | N/A | 3.8 | 2.35 | -- | 3.91 | 2.66 | -- | -- |

Friday, April 21, 2023

| Time | Turbidity (NTU) | | | Rolling Average Turbidity (NTU) | | | Difference (NTU) | |
|----------|-----------------|------------|--------------|---------------------------------|------------|--------------|------------------|--------------------|
| | Ambient | 3rd Street | N 3rd Street | Ambient | 3rd Street | N 3rd Street | 3rd St - Ambient | N 3rd St - Ambient |
| 7:00:00 | N/A | 3.68 | 3.15 | -- | 4.20 | 3.36 | -- | -- |
| 7:15:00 | N/A | 3.98 | 2.76 | -- | 4.11 | 3.25 | -- | -- |
| 7:30:00 | N/A | 3.86 | 2.32 | -- | 4.03 | 3.01 | -- | -- |
| 7:45:00 | N/A | 3.76 | 2.8 | -- | 3.95 | 2.86 | -- | -- |
| 8:00:00 | N/A | 3.7 | 3.18 | -- | 3.80 | 2.84 | -- | -- |
| 8:15:00 | N/A | 3.64 | 3.19 | -- | 3.79 | 2.85 | -- | -- |
| 8:30:00 | 1.32 | 3.58 | 2.71 | 1.32 | 3.71 | 2.84 | 2.39 | 1.52 |
| 8:45:00 | 1.65 | 4.09 | 2.75 | 1.49 | 3.75 | 2.93 | 2.27 | 1.44 |
| 9:00:00 | 1.96 | 5.04 | 2.87 | 1.64 | 4.01 | 2.94 | 2.37 | 1.30 |
| 9:15:00 | 1.38 | 3.93 | 2.93 | 1.58 | 4.06 | 2.89 | 2.48 | 1.31 |
| 9:30:00 | 1.65 | 4.23 | 2.67 | 1.59 | 4.17 | 2.79 | 2.58 | 1.19 |
| 9:45:00 | 1.39 | 4.14 | 2.5 | 1.61 | 4.29 | 2.74 | 2.68 | 1.14 |
| 10:00:00 | 1.49 | 3.97 | 2.55 | 1.57 | 4.26 | 2.70 | 2.69 | 1.13 |
| 10:15:00 | 1.44 | 4.06 | 2.68 | 1.47 | 4.07 | 2.67 | 2.60 | 1.20 |
| 10:30:00 | 1.34 | 4.12 | 2.39 | 1.46 | 4.10 | 2.56 | 2.64 | 1.10 |
| 10:45:00 | 1.51 | 3.85 | 2.27 | 1.43 | 4.03 | 2.48 | 2.59 | 1.04 |
| 11:00:00 | 1.04 | 3.8 | 2.32 | 1.36 | 3.96 | 2.44 | 2.60 | 1.08 |
| 11:15:00 | 1.1 | 3.57 | 2.16 | 1.29 | 3.88 | 2.36 | 2.59 | 1.08 |
| 11:30:00 | 0.99 | 3.71 | 2.1 | 1.20 | 3.81 | 2.25 | 2.61 | 1.05 |
| 11:45:00 | 1.24 | 3.7 | 2.19 | 1.18 | 3.73 | 2.21 | 2.55 | 1.03 |
| 12:00:00 | 1.03 | 3.45 | 2.27 | 1.08 | 3.65 | 2.21 | 2.57 | 1.13 |
| 12:15:00 | -- | 3.66 | 2.41 | 1.09 | 3.62 | 2.23 | 2.53 | 1.14 |
| 12:30:00 | 1.28 | 3.61 | 3.7 | 1.14 | 3.63 | 2.53 | 2.49 | 1.40 |
| 12:45:00 | 1.16 | 3.85 | 3.13 | 1.18 | 3.65 | 2.74 | 2.48 | 1.56 |
| 13:00:00 | 1.27 | 3.94 | 3.76 | 1.19 | 3.70 | 3.05 | 2.52 | 1.87 |
| 13:15:00 | 0.99 | 4.18 | 4.57 | 1.18 | 3.85 | 3.51 | 2.67 | 2.34 |
| 13:30:00 | 1.08 | 4.36 | 6.48 | 1.16 | 3.99 | 4.33 | 2.83 | 3.17 |
| 13:45:00 | 0.92 | 5.28 | 7.65 | 1.08 | 4.32 | 5.12 | 3.24 | 4.03 |
| 14:00:00 | 1.02 | 8.25 | 7.07 | 1.06 | 5.20 | 5.91 | 4.15 | 4.85 |
| 14:15:00 | 1.05 | 6.38 | 7.12 | 1.01 | 5.69 | 6.58 | 4.68 | 5.57 |
| 14:30:00 | N/A | 5.25 | 9.35 | 1.02 | 5.90 | 7.53 | 4.89 | 6.52 |
| 14:45:00 | N/A | 5.7 | 8.75 | 1.00 | 6.17 | 7.99 | 5.18 | 6.99 |
| 15:00:00 | N/A | 7.47 | 10.14 | 1.04 | 6.61 | 8.49 | 5.58 | 7.45 |
| 15:15:00 | N/A | 7.9 | 9.79 | 1.05 | 6.54 | 9.03 | 5.49 | 7.98 |
| 15:30:00 | N/A | 6.31 | 10.64 | -- | 6.53 | 9.73 | -- | -- |
| 15:45:00 | N/A | 6.76 | 9.61 | -- | 6.83 | 9.79 | -- | -- |
| 16:00:00 | N/A | 5.11 | 8.36 | -- | 6.71 | 9.71 | -- | -- |
| 16:15:00 | N/A | 5.37 | 10.42 | -- | 6.29 | 9.76 | -- | -- |
| 16:30:00 | N/A | 5.14 | 11.95 | -- | 5.74 | 10.20 | -- | -- |
| 16:45:00 | N/A | 5.24 | 11.02 | -- | 5.52 | 10.27 | -- | -- |
| 17:00:00 | N/A | 4.88 | 10.02 | -- | 5.15 | 10.35 | -- | -- |
| 17:15:00 | N/A | 6.93 | 9.79 | -- | 5.51 | 10.64 | -- | -- |
| 17:30:00 | N/A | 6.98 | 9.37 | -- | 5.83 | 10.43 | -- | -- |
| 17:45:00 | N/A | 5.37 | 7.78 | -- | 5.88 | 9.60 | -- | -- |
| 18:00:00 | N/A | 6.04 | 7.21 | -- | 6.04 | 8.83 | -- | -- |