

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

PERIOD: NOVEMBER 16 TO NOVEMBER 20, 2020

Date of Report: November 25, 2020

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Prepared by

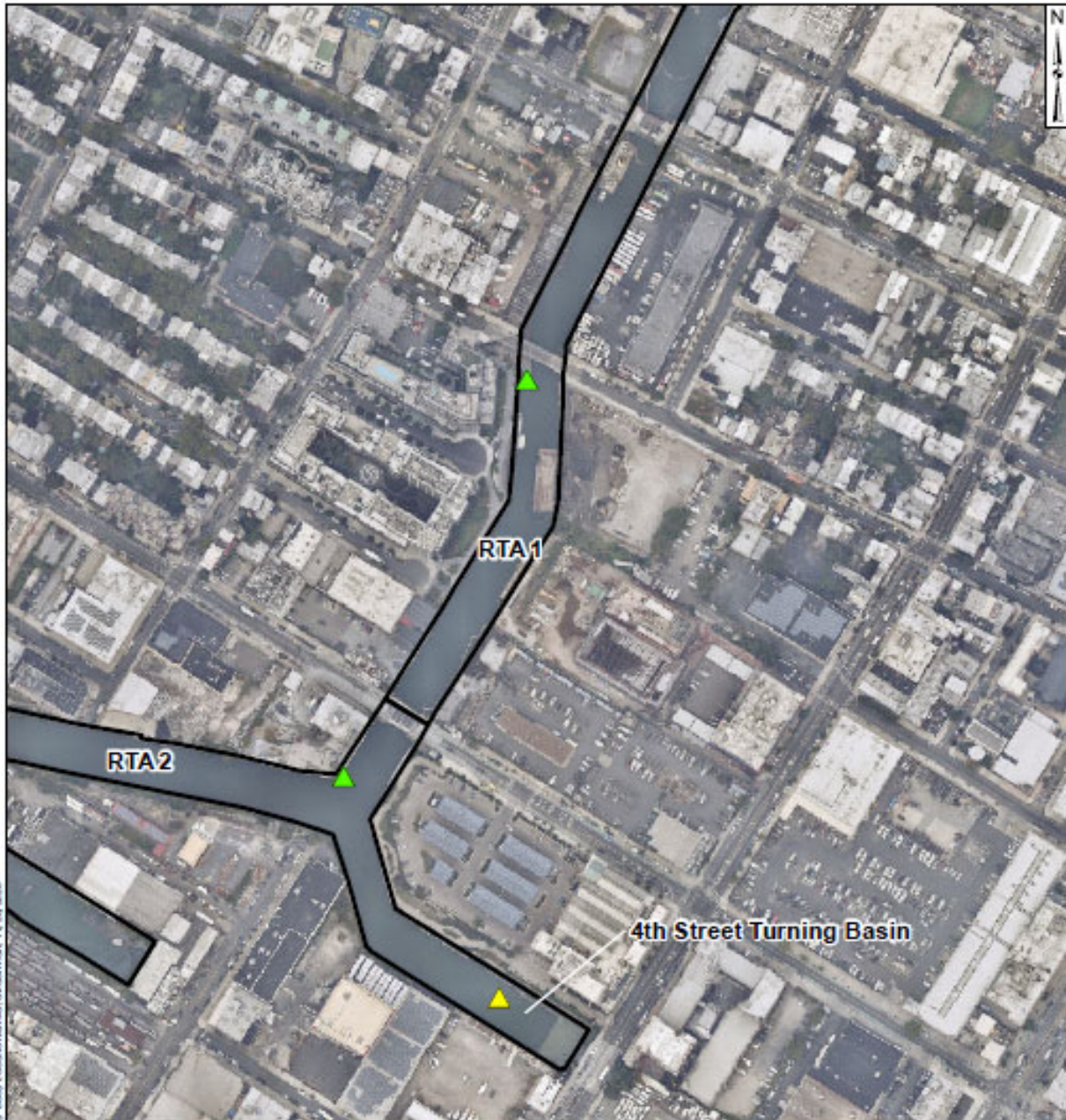
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1. SCOPE OF MONITORING

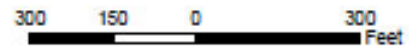
The following report summarizes water quality monitoring data collected during the week of November 16th, 2020. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll Street Bridge and 3rd Street Bridge. One turbidity buoy was deployed just south of the 3rd Street Bridge outside of the air curtain and traditional turbidity curtain. This buoy is referred to as the 3rd 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. A map indicating the approximate locations of the turbidity buoys 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 16th. 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. The data provided in this summary report have not yet been validated and should be considered preliminary.



\\B&B\eng\GIS\workspace\PP\03_08.mxd\Canal\Map\3\464646_Buoys_Locations\mxd\airframe_11/22/2020

Legend

-  Ambient Buoy
-  Sentinel Buoy
-  RTA Boundary



Turbidity Buoy Locations

Gowanus Canal, Brooklyn, NY

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Kennesaw, GA

November 2020

Figure

1

2. REPORT OF EXCEEDANCES

No exceedances of the water quality monitoring threshold criteria were met during the reporting period. Refer to the WQMP for further information regarding the Trigger and Action Criteria. Threshold criteria are summarized as follows:

- **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

A detailed description of responses to exceedances of the trigger and action level criteria is provided in Section 4.2 of the WQMP. 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.

3. TURBIDITY BUOY DATA

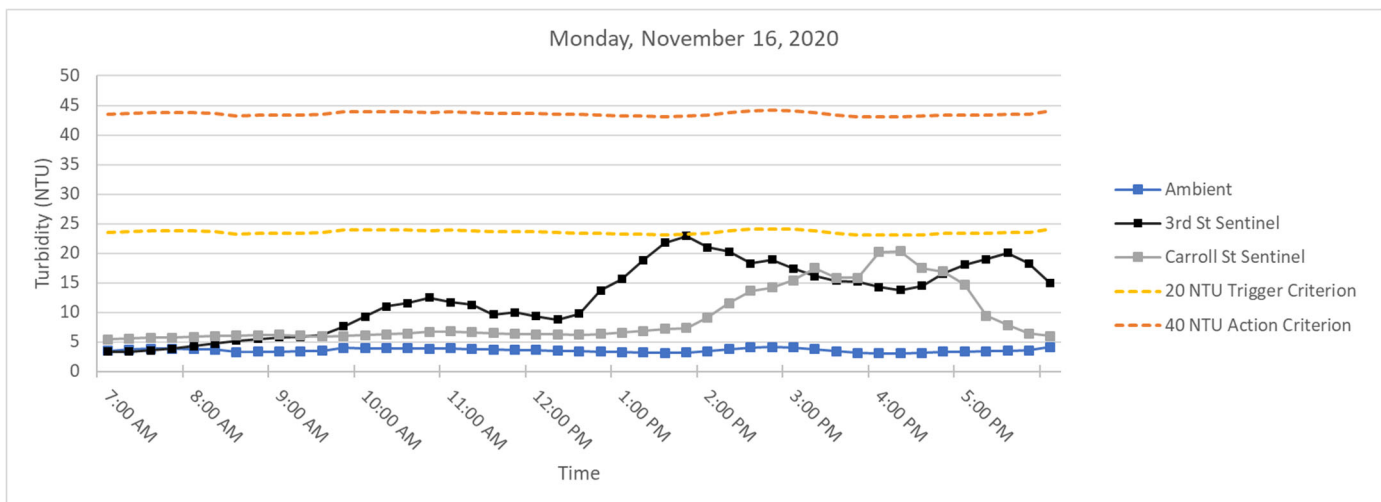
The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from November 16th to November 20th, 2020. No exceedances to the numerical rolling average threshold criteria were observed during the reporting period. **Table 1** below provides a summary of the turbidity data for the reporting period.

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

| 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 16, 2020 | 8.84 | 5.49 | 19.69 | 17.27 |
| Tuesday November 17, 2020 | 3.04 | 4.57 | 7.74 | 7.08 |
| Wednesday November 18, 2020 | 4.62 | 2.51 | 19.16 | 4.28 |
| Thursday November 19, 2020 | 6.49 | 3.18 | 16.92 | 5.14 |
| Friday November 20, 2020 | 4.23 | -0.07 | 13.67 | 2.77 |

3.1 Monday, November 16th, 2020

Figure 2. Hourly rolling average turbidity readings on Monday, November 16, 2020 from 7 AM to 6 PM.

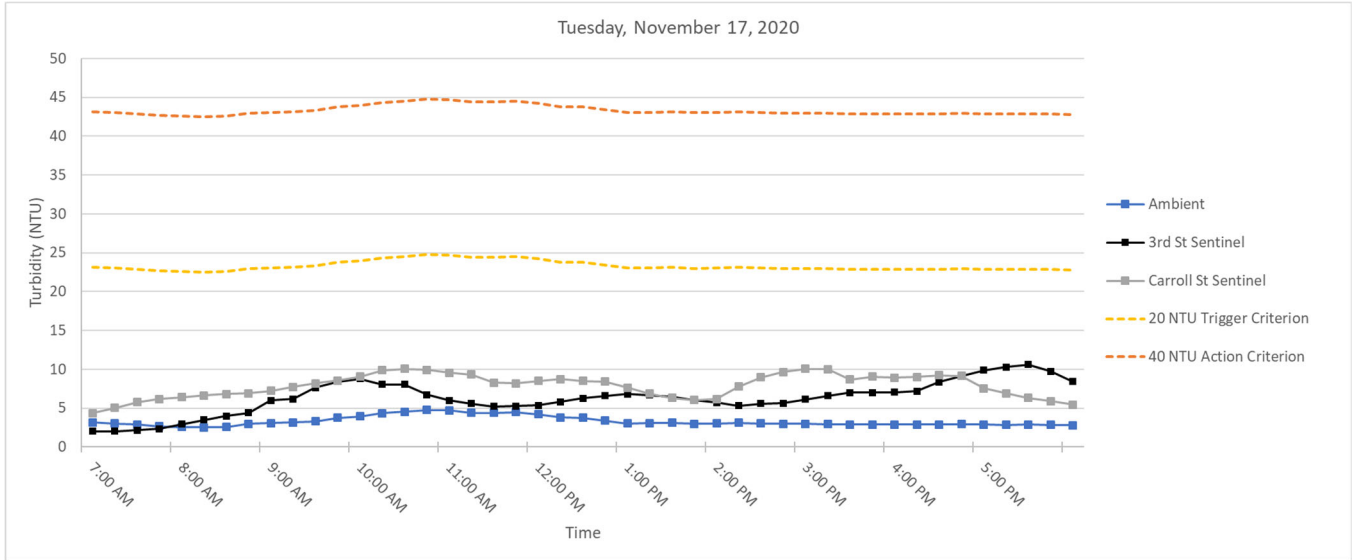


Notes:

1. On November 16, 2020 at 1:30 PM a spike in turbidity at the 3rd Street Sentinel Buoy of 66.77 NTU was eliminated as an outlier in accordance with the outlier analysis defined in Section 2 and the WQMP.

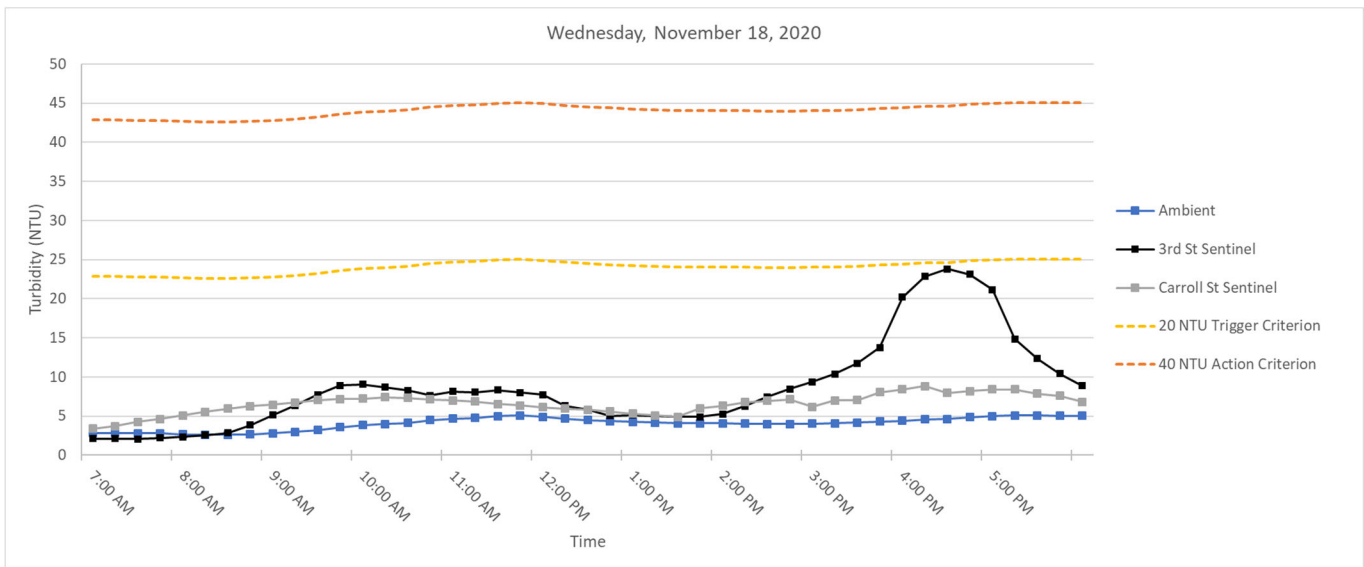
3.2 Tuesday, November 17th, 2020

Figure 3. Hourly rolling average turbidity readings on Tuesday, November 17, 2020 from 7 AM to 6 PM.



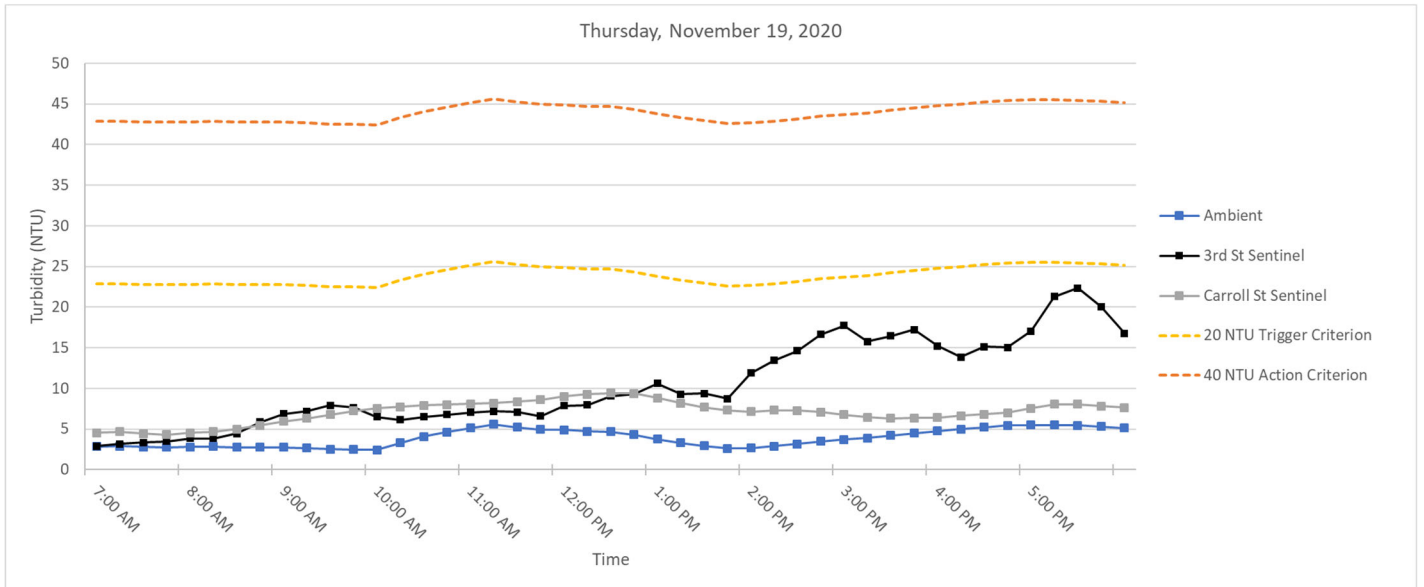
3.3 Wednesday, November 18th, 2020

Figure 4. Hourly rolling average turbidity readings on Wednesday, November 18, 2020 from 7 AM to 6 PM.



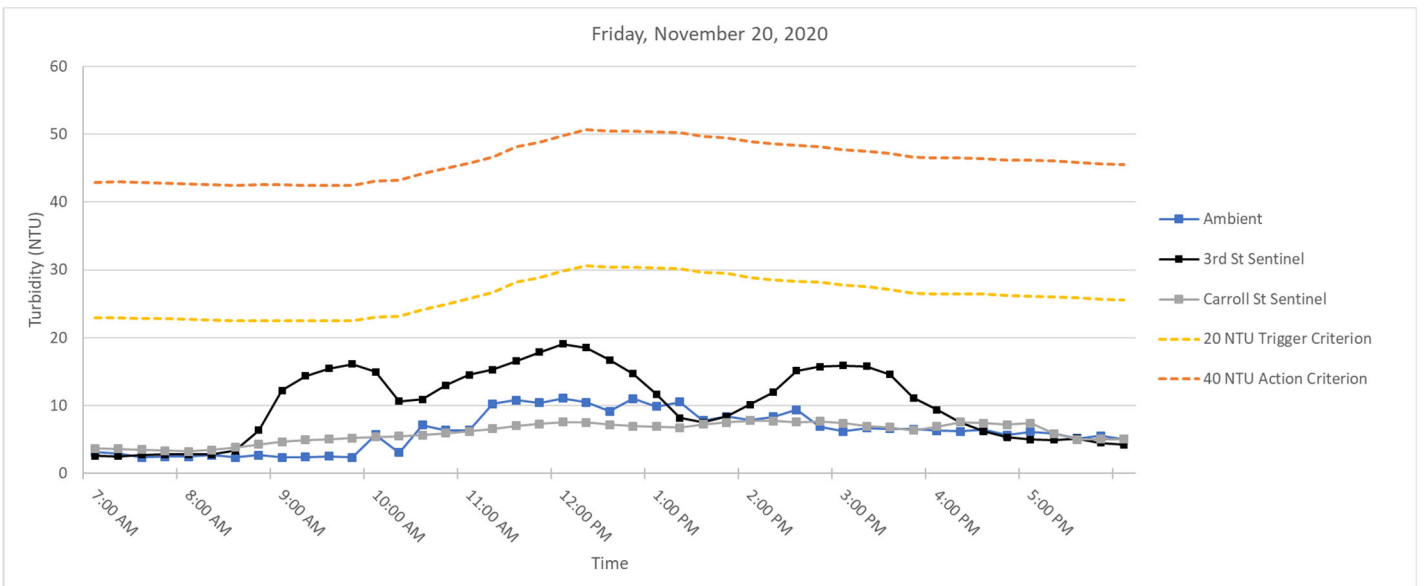
3.4 Thursday, November 19th, 2020

Figure 5. Hourly rolling average turbidity readings on Thursday, November 19, 2020 from 7 AM to 6 PM.



3.5 Friday, November 20th, 2020

Figure 6. Hourly rolling average turbidity readings on Friday, November 20, 2020 from 7 AM to 6 PM.



4. SUMMARY OF VISUAL OBSERVATIONS

During the start of Phase I dredging with the excavator bucket an increased occurrence of sheen was observed. This sheen was localized in the area of dredging and did not migrate outside of RTA1.

APPENDIX A
Turbidity Data Tables

Monday, November 16, 2020

| 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 | 3.72 | 3.35 | 5.71 | 3.51 | 3.32 | 5.43 | -0.19 | 1.92 |
| 7:15:00 | 3.57 | 3.83 | 5.64 | 3.70 | 3.34 | 5.58 | -0.36 | 1.89 |
| 7:30:00 | 4.09 | 4.55 | 5.62 | 3.81 | 3.58 | 5.68 | -0.23 | 1.87 |
| 7:45:00 | 3.74 | 4.72 | 5.73 | 3.81 | 3.87 | 5.71 | 0.05 | 1.90 |
| 8:00:00 | 3.56 | 4.94 | 6.34 | 3.74 | 4.28 | 5.81 | 0.54 | 2.07 |
| 8:15:00 | 3.48 | 5.54 | 6.46 | 3.69 | 4.72 | 5.96 | 1.03 | 2.27 |
| 8:30:00 | 1.38 | 6.22 | 6 | 3.25 | 5.19 | 6.03 | 1.94 | 2.78 |
| 8:45:00 | 4.57 | 5.94 | 6.16 | 3.35 | 5.47 | 6.14 | 2.13 | 2.79 |
| 9:00:00 | 3.72 | 6.07 | 5.91 | 3.34 | 5.74 | 6.17 | 2.40 | 2.83 |
| 9:15:00 | 3.91 | 5.43 | 5.92 | 3.41 | 5.84 | 6.09 | 2.43 | 2.68 |
| 9:30:00 | 3.93 | 6.84 | 5.68 | 3.50 | 6.10 | 5.93 | 2.60 | 2.43 |
| 9:45:00 | 3.75 | 13.95 | 6.22 | 3.98 | 7.65 | 5.98 | 3.67 | 2.00 |
| 10:00:00 | 4.12 | 13.91 | 6.87 | 3.89 | 9.24 | 6.12 | 5.35 | 2.23 |
| 10:15:00 | 4.01 | 14.93 | 6.59 | 3.94 | 11.01 | 6.26 | 7.07 | 2.31 |
| 10:30:00 | 3.67 | 8.31 | 6.75 | 3.90 | 11.59 | 6.42 | 7.69 | 2.53 |
| 10:45:00 | 3.71 | 11.22 | 7.04 | 3.85 | 12.46 | 6.69 | 8.61 | 2.84 |
| 11:00:00 | 4.1 | 10.21 | 6.58 | 3.92 | 11.72 | 6.77 | 7.79 | 2.84 |
| 11:15:00 | 3.48 | 11.58 | 6.26 | 3.79 | 11.25 | 6.64 | 7.46 | 2.85 |
| 11:30:00 | 3.57 | 6.74 | 5.97 | 3.71 | 9.61 | 6.52 | 5.91 | 2.81 |
| 11:45:00 | 3.46 | 10.11 | 5.99 | 3.66 | 9.97 | 6.37 | 6.31 | 2.70 |
| 12:00:00 | 3.58 | 8.21 | 6.47 | 3.64 | 9.37 | 6.25 | 5.73 | 2.62 |
| 12:15:00 | 3.34 | 7.13 | 6.5 | 3.49 | 8.75 | 6.24 | 5.27 | 2.75 |
| 12:30:00 | 3.24 | 16.67 | 6.01 | 3.44 | 9.77 | 6.19 | 6.33 | 2.75 |
| 12:45:00 | 3.2 | 26.44 | 6.85 | 3.36 | 13.71 | 6.36 | 10.35 | 3.00 |
| 13:00:00 | 3 | 19.57 | 7.09 | 3.27 | 15.60 | 6.58 | 12.33 | 3.31 |
| 13:15:00 | 3.05 | 24.25 | 7.66 | 3.17 | 18.81 | 6.82 | 15.65 | 3.66 |
| 13:30:00 | 3.04 | -- | 8.3 | 3.11 | 21.73 | 7.18 | 18.63 | 4.08 |
| 13:45:00 | 3.63 | 21.23 | 6.72 | 3.18 | 22.87 | 7.32 | 19.69 | 4.14 |
| 14:00:00 | 4.22 | 18.87 | 16.02 | 3.39 | 20.98 | 9.16 | 17.59 | 5.77 |
| 14:15:00 | 4.76 | 16.8 | 18.92 | 3.74 | 20.29 | 11.52 | 16.55 | 7.78 |
| 14:30:00 | 4.72 | 16.14 | 18.11 | 4.07 | 18.26 | 13.61 | 14.19 | 9.54 |
| 14:45:00 | 3.44 | 21.4 | 11.24 | 4.15 | 18.89 | 14.20 | 14.73 | 10.05 |
| 15:00:00 | 3.08 | 13.87 | 12.67 | 4.04 | 17.42 | 15.39 | 13.37 | 11.35 |
| 15:15:00 | 3.01 | 12.27 | 26.35 | 3.80 | 16.10 | 17.46 | 12.29 | 13.66 |
| 15:30:00 | 2.85 | 12.9 | 10.66 | 3.42 | 15.32 | 15.81 | 11.90 | 12.39 |
| 15:45:00 | 3.29 | 15.52 | 18.23 | 3.13 | 15.19 | 15.83 | 12.06 | 12.70 |
| 16:00:00 | 2.99 | 16.71 | 33.2 | 3.04 | 14.25 | 20.22 | 11.21 | 17.18 |
| 16:15:00 | 3.07 | 11.53 | 13.12 | 3.04 | 13.79 | 20.31 | 10.74 | 17.27 |
| 16:30:00 | 3.56 | 15.78 | 12.26 | 3.15 | 14.49 | 17.49 | 11.34 | 14.34 |
| 16:45:00 | 3.8 | 23.11 | 7.87 | 3.34 | 16.53 | 16.94 | 13.19 | 13.59 |
| 17:00:00 | 3.38 | 23.24 | 6.93 | 3.36 | 18.07 | 14.68 | 14.71 | 11.32 |
| 17:15:00 | 3.31 | 21.38 | 7.04 | 3.42 | 19.01 | 9.44 | 15.58 | 6.02 |
| 17:30:00 | 3.29 | 16.65 | 5.15 | 3.47 | 20.03 | 7.85 | 16.56 | 4.38 |
| 17:45:00 | 3.83 | 7.04 | 5.16 | 3.52 | 18.28 | 6.43 | 14.76 | 2.91 |
| 18:00:00 | 6.76 | 6.11 | 5.56 | 4.11 | 14.88 | 5.97 | 10.77 | 1.85 |

Tuesday, November 17, 2020

| 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 | 3.03 | 1.9 | 5.63 | 3.14 | 2.03 | 4.32 | -1.12 | 1.18 |
| 7:15:00 | 2.59 | 2.25 | 6.61 | 3.01 | 2.01 | 5.02 | -1.00 | 2.02 |
| 7:30:00 | 2.38 | 2.85 | 6.72 | 2.87 | 2.13 | 5.76 | -0.74 | 2.90 |
| 7:45:00 | 2.26 | 3 | 6.03 | 2.66 | 2.35 | 6.15 | -0.31 | 3.49 |
| 8:00:00 | 2.6 | 4.67 | 6.89 | 2.57 | 2.93 | 6.38 | 0.36 | 3.80 |
| 8:15:00 | 2.75 | 4.69 | 6.88 | 2.52 | 3.49 | 6.63 | 0.98 | 4.11 |
| 8:30:00 | 2.86 | 4.77 | 7.58 | 2.57 | 4.00 | 6.82 | 1.43 | 4.25 |
| 8:45:00 | 4.28 | 4.71 | 7.11 | 2.95 | 4.37 | 6.90 | 1.42 | 3.95 |
| 9:00:00 | 2.82 | 11.01 | 7.69 | 3.06 | 5.97 | 7.23 | 2.91 | 4.17 |
| 9:15:00 | 3.01 | 5.63 | 9.38 | 3.14 | 6.16 | 7.73 | 3.02 | 4.58 |
| 9:30:00 | 3.44 | 11.98 | 9.08 | 3.28 | 7.62 | 8.17 | 4.34 | 4.89 |
| 9:45:00 | 5.14 | 8.67 | 9.41 | 3.74 | 8.40 | 8.53 | 4.66 | 4.80 |
| 10:00:00 | 5.25 | 6.65 | 9.63 | 3.93 | 8.79 | 9.04 | 4.86 | 5.11 |
| 10:15:00 | 4.76 | 7.26 | 11.72 | 4.32 | 8.04 | 9.84 | 3.72 | 5.52 |
| 10:30:00 | 3.94 | 5.52 | 10.49 | 4.51 | 8.02 | 10.07 | 3.51 | 5.56 |
| 10:45:00 | 4.76 | 5.47 | 8.23 | 4.77 | 6.71 | 9.90 | 1.94 | 5.13 |
| 11:00:00 | 4.82 | 4.94 | 7.73 | 4.71 | 5.97 | 9.56 | 1.26 | 4.85 |
| 11:15:00 | 3.66 | 4.74 | 8.4 | 4.39 | 5.59 | 9.31 | 1.20 | 4.93 |
| 11:30:00 | 4.64 | 5.43 | 6.55 | 4.36 | 5.22 | 8.28 | 0.86 | 3.92 |
| 11:45:00 | 4.44 | 5.61 | 9.91 | 4.46 | 5.24 | 8.16 | 0.77 | 3.70 |
| 12:00:00 | 3.39 | 6.1 | 9.93 | 4.19 | 5.36 | 8.50 | 1.17 | 4.31 |
| 12:15:00 | 2.78 | 7.05 | 8.72 | 3.78 | 5.79 | 8.70 | 2.00 | 4.92 |
| 12:30:00 | 3.53 | 7.03 | 7.28 | 3.76 | 6.24 | 8.48 | 2.49 | 4.72 |
| 12:45:00 | 2.79 | 7.19 | 6.23 | 3.39 | 6.60 | 8.41 | 3.21 | 5.03 |
| 13:00:00 | 2.64 | 6.73 | 5.91 | 3.03 | 6.82 | 7.61 | 3.79 | 4.59 |
| 13:15:00 | 3.56 | 5.38 | 6.22 | 3.06 | 6.68 | 6.87 | 3.62 | 3.81 |
| 13:30:00 | 3.04 | 5.88 | 5.98 | 3.11 | 6.44 | 6.32 | 3.33 | 3.21 |
| 13:45:00 | 2.93 | 5.06 | 5.91 | 2.99 | 6.05 | 6.05 | 3.06 | 3.06 |
| 14:00:00 | 2.93 | 5.44 | 6.83 | 3.02 | 5.70 | 6.17 | 2.68 | 3.15 |
| 14:15:00 | 3.07 | 4.71 | 13.96 | 3.11 | 5.29 | 7.78 | 2.19 | 4.67 |
| 14:30:00 | 3 | 6.75 | 12.01 | 2.99 | 5.57 | 8.94 | 2.57 | 5.94 |
| 14:45:00 | 2.96 | 6.14 | 9.58 | 2.98 | 5.62 | 9.66 | 2.64 | 6.68 |
| 15:00:00 | 2.92 | 7.6 | 7.89 | 2.98 | 6.13 | 10.05 | 3.15 | 7.08 |
| 15:15:00 | 2.75 | 7.59 | 6.49 | 2.94 | 6.56 | 9.99 | 3.62 | 7.05 |
| 15:30:00 | 2.77 | 6.8 | 7.39 | 2.88 | 6.98 | 8.67 | 4.10 | 5.79 |
| 15:45:00 | 2.95 | 6.9 | 13.89 | 2.87 | 7.01 | 9.05 | 4.14 | 6.18 |
| 16:00:00 | 2.97 | 6.26 | 8.94 | 2.87 | 7.03 | 8.92 | 4.16 | 6.05 |
| 16:15:00 | 2.84 | 8.35 | 8.36 | 2.86 | 7.18 | 9.01 | 4.32 | 6.16 |
| 16:30:00 | 2.89 | 13.4 | 7.46 | 2.88 | 8.34 | 9.21 | 5.46 | 6.32 |
| 16:45:00 | 2.88 | 10.77 | 6.91 | 2.91 | 9.14 | 9.11 | 6.23 | 6.21 |
| 17:00:00 | 2.7 | 10.62 | 6.06 | 2.86 | 9.88 | 7.55 | 7.02 | 4.69 |
| 17:15:00 | 2.81 | 8.18 | 5.71 | 2.82 | 10.26 | 6.90 | 7.44 | 4.08 |
| 17:30:00 | 3.05 | 10.07 | 5.35 | 2.87 | 10.61 | 6.30 | 7.74 | 3.43 |
| 17:45:00 | 2.73 | 9.08 | 5.42 | 2.83 | 9.74 | 5.89 | 6.91 | 3.06 |
| 18:00:00 | 2.67 | 4.16 | 4.75 | 2.79 | 8.42 | 5.46 | 5.63 | 2.67 |

Wednesday, November 18, 2020

| 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 | 2.76 | 1.86 | 4.25 | 2.85 | 2.09 | 3.36 | -0.76 | 0.51 |
| 7:15:00 | 3 | 2.32 | 4.35 | 2.84 | 2.12 | 3.72 | -0.72 | 0.88 |
| 7:30:00 | 2.65 | 1.92 | 5.17 | 2.80 | 2.05 | 4.24 | -0.75 | 1.44 |
| 7:45:00 | 2.51 | 2.86 | 5.91 | 2.77 | 2.18 | 4.62 | -0.58 | 1.86 |
| 8:00:00 | 2.32 | 2.8 | 5.77 | 2.65 | 2.35 | 5.09 | -0.30 | 2.44 |
| 8:15:00 | 2.61 | 2.79 | 6.47 | 2.62 | 2.54 | 5.53 | -0.08 | 2.92 |
| 8:30:00 | 2.82 | 3.78 | 6.38 | 2.58 | 2.83 | 5.94 | 0.25 | 3.36 |
| 8:45:00 | 3.02 | 7.07 | 6.72 | 2.66 | 3.86 | 6.25 | 1.20 | 3.59 |
| 9:00:00 | 3.14 | 9.15 | 6.87 | 2.78 | 5.12 | 6.44 | 2.34 | 3.66 |
| 9:15:00 | 3.18 | 8.88 | 7.21 | 2.95 | 6.33 | 6.73 | 3.38 | 3.78 |
| 9:30:00 | 3.72 | 9.64 | 7.98 | 3.18 | 7.70 | 7.03 | 4.53 | 3.86 |
| 9:45:00 | 4.67 | 9.78 | 7.11 | 3.55 | 8.90 | 7.18 | 5.36 | 3.63 |
| 10:00:00 | 4.56 | 7.73 | 6.92 | 3.85 | 9.04 | 7.22 | 5.18 | 3.36 |
| 10:15:00 | 3.68 | 7.26 | 7.68 | 3.96 | 8.66 | 7.38 | 4.70 | 3.42 |
| 10:30:00 | 4.01 | 7.02 | 6.91 | 4.13 | 8.29 | 7.32 | 4.16 | 3.19 |
| 10:45:00 | 5.56 | 6.46 | 6.95 | 4.50 | 7.65 | 7.11 | 3.15 | 2.62 |
| 11:00:00 | 5.55 | 12.25 | 6.45 | 4.67 | 8.14 | 6.98 | 3.47 | 2.31 |
| 11:15:00 | 5.02 | 7.12 | 6.27 | 4.76 | 8.02 | 6.85 | 3.26 | 2.09 |
| 11:30:00 | 4.71 | 8.76 | 6.07 | 4.97 | 8.32 | 6.53 | 3.35 | 1.56 |
| 11:45:00 | 4.6 | 5.26 | 6.01 | 5.09 | 7.97 | 6.35 | 2.88 | 1.26 |
| 12:00:00 | 4.67 | 5.24 | 5.91 | 4.91 | 7.73 | 6.14 | 2.82 | 1.23 |
| 12:15:00 | 4.36 | 5.25 | 5.5 | 4.67 | 6.33 | 5.95 | 1.65 | 1.28 |
| 12:30:00 | 4.14 | 4.49 | 5.46 | 4.50 | 5.80 | 5.79 | 1.30 | 1.29 |
| 12:45:00 | 4.04 | 4.77 | 4.88 | 4.36 | 5.00 | 5.55 | 0.64 | 1.19 |
| 13:00:00 | 4.03 | 5.79 | 4.7 | 4.25 | 5.11 | 5.29 | 0.86 | 1.04 |
| 13:15:00 | 4.11 | 4.89 | 4.82 | 4.14 | 5.04 | 5.07 | 0.90 | 0.94 |
| 13:30:00 | 4.11 | 4.42 | 4.63 | 4.09 | 4.87 | 4.90 | 0.79 | 0.81 |
| 13:45:00 | 3.94 | 4.62 | 10.87 | 4.05 | 4.90 | 5.98 | 0.85 | 1.93 |
| 14:00:00 | 4.12 | 6.53 | 6.49 | 4.06 | 5.25 | 6.30 | 1.19 | 2.24 |
| 14:15:00 | 3.88 | 10.89 | 6.92 | 4.03 | 6.27 | 6.75 | 2.24 | 2.71 |
| 14:30:00 | 3.79 | 10.86 | 5.88 | 3.97 | 7.46 | 6.96 | 3.50 | 2.99 |
| 14:45:00 | 4.07 | 9.46 | 5.57 | 3.96 | 8.47 | 7.15 | 4.51 | 3.19 |
| 15:00:00 | 4.15 | 9.13 | 6.01 | 4.00 | 9.37 | 6.17 | 5.37 | 2.17 |
| 15:15:00 | 4.37 | 11.52 | 10.48 | 4.05 | 10.37 | 6.97 | 6.32 | 2.92 |
| 15:30:00 | 4.32 | 17.62 | 7.22 | 4.14 | 11.72 | 7.03 | 7.58 | 2.89 |
| 15:45:00 | 4.62 | 20.92 | 10.9 | 4.31 | 13.73 | 8.04 | 9.42 | 3.73 |
| 16:00:00 | 4.38 | 41.7 | 7.35 | 4.37 | 20.18 | 8.39 | 15.81 | 4.02 |
| 16:15:00 | 5.06 | 22.46 | 8.21 | 4.55 | 22.84 | 8.83 | 18.29 | 4.28 |
| 16:30:00 | 4.78 | 16.25 | 6.08 | 4.63 | 23.79 | 7.95 | 19.16 | 3.32 |
| 16:45:00 | 5.45 | 14.09 | 8.28 | 4.86 | 23.08 | 8.16 | 18.23 | 3.31 |
| 17:00:00 | 5.21 | 11.3 | 11.99 | 4.98 | 21.16 | 8.38 | 16.18 | 3.41 |
| 17:15:00 | 4.79 | 10.19 | 7.57 | 5.06 | 14.86 | 8.43 | 9.80 | 3.37 |
| 17:30:00 | 5.09 | 9.73 | 5.47 | 5.06 | 12.31 | 7.88 | 7.25 | 2.81 |
| 17:45:00 | 4.63 | 6.83 | 4.65 | 5.03 | 10.43 | 7.59 | 5.39 | 2.56 |
| 18:00:00 | 5.3 | 6.21 | 4.32 | 5.00 | 8.85 | 6.80 | 3.85 | 1.80 |

Thursday, November 19, 2020

| 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 | 2.67 | 3.13 | 4.63 | 2.82 | 2.86 | 4.50 | 0.04 | 1.68 |
| 7:15:00 | 3.01 | 4.05 | 4.19 | 2.87 | 3.13 | 4.64 | 0.26 | 1.77 |
| 7:30:00 | 2.83 | 4.07 | 3.93 | 2.79 | 3.33 | 4.42 | 0.54 | 1.63 |
| 7:45:00 | 2.74 | 3.55 | 4.5 | 2.75 | 3.49 | 4.30 | 0.74 | 1.55 |
| 8:00:00 | 2.74 | 4.36 | 5.3 | 2.80 | 3.83 | 4.51 | 1.03 | 1.71 |
| 8:15:00 | 2.81 | 3.07 | 5.31 | 2.83 | 3.82 | 4.65 | 0.99 | 1.82 |
| 8:30:00 | 2.67 | 7.01 | 5.77 | 2.76 | 4.41 | 4.96 | 1.65 | 2.20 |
| 8:45:00 | 2.79 | 11.27 | 6.22 | 2.75 | 5.85 | 5.42 | 3.10 | 2.67 |
| 9:00:00 | 2.69 | 8.48 | 7.05 | 2.74 | 6.84 | 5.93 | 4.10 | 3.19 |
| 9:15:00 | 2.28 | 6.12 | 7.19 | 2.65 | 7.19 | 6.31 | 4.54 | 3.66 |
| 9:30:00 | 2.21 | 6.73 | 7.51 | 2.53 | 7.92 | 6.75 | 5.39 | 4.22 |
| 9:45:00 | 2.27 | 5.46 | 8.04 | 2.45 | 7.61 | 7.20 | 5.16 | 4.75 |
| 10:00:00 | 2.65 | 5.69 | 7.99 | 2.42 | 6.50 | 7.56 | 4.08 | 5.14 |
| 10:15:00 | 7.01 | 6.69 | 7.83 | 3.28 | 6.14 | 7.71 | 2.85 | 4.43 |
| 10:30:00 | 6.17 | 7.9 | 8.19 | 4.06 | 6.49 | 7.91 | 2.43 | 3.85 |
| 10:45:00 | 4.89 | 7.97 | 7.95 | 4.60 | 6.74 | 8.00 | 2.14 | 3.40 |
| 11:00:00 | 4.97 | 7 | 8.35 | 5.14 | 7.05 | 8.06 | 1.91 | 2.92 |
| 11:15:00 | 4.84 | 6.34 | 8.52 | 5.58 | 7.18 | 8.17 | 1.60 | 2.59 |
| 11:30:00 | 5.1 | 6.27 | 8.76 | 5.19 | 7.10 | 8.35 | 1.90 | 3.16 |
| 11:45:00 | 4.91 | 5.32 | 9.4 | 4.94 | 6.58 | 8.60 | 1.64 | 3.65 |
| 12:00:00 | 4.54 | 14.33 | 10 | 4.87 | 7.85 | 9.01 | 2.98 | 4.13 |
| 12:15:00 | 4.23 | 7.46 | 9.73 | 4.72 | 7.94 | 9.28 | 3.22 | 4.56 |
| 12:30:00 | 4.52 | 11.9 | 9.05 | 4.66 | 9.06 | 9.39 | 4.40 | 4.73 |
| 12:45:00 | 3.27 | 7.62 | 8.64 | 4.29 | 9.33 | 9.36 | 5.03 | 5.07 |
| 13:00:00 | 2.24 | 11.72 | 6.71 | 3.76 | 10.61 | 8.83 | 6.85 | 5.07 |
| 13:15:00 | 2.27 | 7.58 | 6.7 | 3.31 | 9.26 | 8.17 | 5.95 | 4.86 |
| 13:30:00 | 2.27 | 8.07 | 7.27 | 2.91 | 9.38 | 7.67 | 6.46 | 4.76 |
| 13:45:00 | 3.03 | 8.67 | 7.31 | 2.62 | 8.73 | 7.33 | 6.12 | 4.71 |
| 14:00:00 | 3.37 | 23.33 | 7.64 | 2.64 | 11.87 | 7.13 | 9.24 | 4.49 |
| 14:15:00 | 3.45 | 19.58 | 7.57 | 2.88 | 13.45 | 7.30 | 10.57 | 4.42 |
| 14:30:00 | 3.75 | 13.39 | 6.63 | 3.17 | 14.61 | 7.28 | 11.43 | 4.11 |
| 14:45:00 | 3.72 | 18.05 | 6.19 | 3.46 | 16.60 | 7.07 | 13.14 | 3.60 |
| 15:00:00 | 4.27 | 14.2 | 5.81 | 3.71 | 17.71 | 6.77 | 14.00 | 3.06 |
| 15:15:00 | 4.22 | 13.47 | 6.11 | 3.88 | 15.74 | 6.46 | 11.86 | 2.58 |
| 15:30:00 | 5.02 | 23.12 | 6.77 | 4.20 | 16.45 | 6.30 | 12.25 | 2.11 |
| 15:45:00 | 5.14 | 17.31 | 6.88 | 4.47 | 17.23 | 6.35 | 12.76 | 1.88 |
| 16:00:00 | 5.15 | 8.03 | 6.5 | 4.76 | 15.23 | 6.41 | 10.47 | 1.65 |
| 16:15:00 | 5.46 | 7.17 | 6.82 | 5.00 | 13.82 | 6.62 | 8.82 | 1.62 |
| 16:30:00 | 5.33 | 19.97 | 7.07 | 5.22 | 15.12 | 6.81 | 9.90 | 1.59 |
| 16:45:00 | 6 | 22.68 | 7.57 | 5.42 | 15.03 | 6.97 | 9.62 | 1.55 |
| 17:00:00 | 5.39 | 27.41 | 9.81 | 5.47 | 17.05 | 7.55 | 11.59 | 2.09 |
| 17:15:00 | 5.19 | 29.17 | 8.95 | 5.47 | 21.28 | 8.04 | 15.81 | 2.57 |
| 17:30:00 | 5.24 | 12.5 | 6.84 | 5.43 | 22.35 | 8.05 | 16.92 | 2.62 |
| 17:45:00 | 4.7 | 8.51 | 5.99 | 5.30 | 20.05 | 7.83 | 14.75 | 2.53 |
| 18:00:00 | 4.98 | 6.17 | 6.53 | 5.10 | 16.75 | 7.62 | 11.65 | 2.52 |

Friday, November 20, 2020

| 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 | 3.13 | 2.88 | 3.52 | 2.88 | 2.58 | 3.68 | -0.30 | 0.80 |
| 7:15:00 | 2.89 | 2.29 | 3.13 | 2.94 | 2.53 | 3.64 | -0.41 | 0.70 |
| 7:30:00 | 2.38 | 3.45 | 3.09 | 2.85 | 2.73 | 3.51 | -0.12 | 0.66 |
| 7:45:00 | 2.47 | 2.78 | 3.11 | 2.78 | 2.78 | 3.35 | 0.00 | 0.58 |
| 8:00:00 | 2.46 | 2.56 | 3.32 | 2.67 | 2.79 | 3.23 | 0.13 | 0.57 |
| 8:15:00 | 2.66 | 2.98 | 4.53 | 2.57 | 2.81 | 3.44 | 0.24 | 0.86 |
| 8:30:00 | 2.38 | 5 | 5.23 | 2.47 | 3.35 | 3.86 | 0.88 | 1.39 |
| 8:45:00 | 2.68 | 18.35 | 5.25 | 2.53 | 6.33 | 4.29 | 3.80 | 1.76 |
| 9:00:00 | 2.35 | 32.11 | 4.9 | 2.51 | 12.20 | 4.65 | 9.69 | 2.14 |
| 9:15:00 | 2.39 | 13.45 | 4.82 | 2.49 | 14.38 | 4.95 | 11.89 | 2.45 |
| 9:30:00 | 2.5 | 8.25 | 5.08 | 2.46 | 15.43 | 5.06 | 12.97 | 2.60 |
| 9:45:00 | 2.35 | 8.48 | 6.06 | 2.45 | 16.13 | 5.22 | 13.67 | 2.77 |
| 10:00:00 | 5.71 | 12.39 | 5.99 | 3.06 | 14.94 | 5.37 | 11.88 | 2.31 |
| 10:15:00 | 3.07 | 10.71 | 5.53 | 3.20 | 10.66 | 5.50 | 7.45 | 2.29 |
| 10:30:00 | 7.14 | 14.57 | 5.59 | 4.15 | 10.88 | 5.65 | 6.73 | 1.50 |
| 10:45:00 | 6.38 | 18.85 | 6.43 | 4.93 | 13.00 | 5.92 | 8.07 | 0.99 |
| 11:00:00 | 6.37 | 16.04 | 7.48 | 5.73 | 14.51 | 6.20 | 8.78 | 0.47 |
| 11:15:00 | 10.25 | 16.27 | 7.77 | 6.64 | 15.29 | 6.56 | 8.65 | -0.08 |
| 11:30:00 | 10.82 | 17.11 | 7.68 | 8.19 | 16.57 | 6.99 | 8.38 | -1.20 |
| 11:45:00 | 10.42 | 21.08 | 7.05 | 8.85 | 17.87 | 7.28 | 9.02 | -1.57 |
| 12:00:00 | 11.07 | 24.96 | 7.86 | 9.79 | 19.09 | 7.57 | 9.31 | -2.22 |
| 12:15:00 | 10.47 | 13.18 | 7.18 | 10.61 | 18.52 | 7.51 | 7.91 | -3.10 |
| 12:30:00 | 9.18 | 7.28 | 6.19 | 10.39 | 16.72 | 7.19 | 6.33 | -3.20 |
| 12:45:00 | 11.01 | 6.94 | 6.54 | 10.43 | 14.69 | 6.96 | 4.26 | -3.47 |
| 13:00:00 | 9.85 | 6.07 | 6.83 | 10.32 | 11.69 | 6.92 | 1.37 | -3.40 |
| 13:15:00 | 10.53 | 7.27 | 7.06 | 10.21 | 8.15 | 6.76 | -2.06 | -3.45 |
| 13:30:00 | 7.76 | 9.94 | 9.61 | 9.67 | 7.50 | 7.25 | -2.17 | -2.42 |
| 13:45:00 | 8.36 | 11.58 | 7.55 | 9.50 | 8.36 | 7.52 | -1.14 | -1.98 |
| 14:00:00 | 7.86 | 15.71 | 7.99 | 8.87 | 10.11 | 7.81 | 1.24 | -1.06 |
| 14:15:00 | 8.35 | 15.27 | 6.34 | 8.57 | 11.95 | 7.71 | 3.38 | -0.86 |
| 14:30:00 | 9.39 | 23.24 | 6.27 | 8.34 | 15.15 | 7.55 | 6.80 | -0.79 |
| 14:45:00 | 6.9 | 12.87 | 10.1 | 8.17 | 15.73 | 7.65 | 7.56 | -0.52 |
| 15:00:00 | 6.17 | 12.36 | 6.3 | 7.73 | 15.89 | 7.40 | 8.16 | -0.33 |
| 15:15:00 | 6.66 | 15.14 | 5.83 | 7.49 | 15.78 | 6.97 | 8.28 | -0.53 |
| 15:30:00 | 6.57 | 9.39 | 5.49 | 7.14 | 14.60 | 6.80 | 7.46 | -0.34 |
| 15:45:00 | 6.52 | 5.85 | 4.12 | 6.56 | 11.12 | 6.37 | 4.56 | -0.20 |
| 16:00:00 | 6.3 | 4.07 | 12.67 | 6.44 | 9.36 | 6.88 | 2.92 | 0.44 |
| 16:15:00 | 6.18 | 3.3 | 9.82 | 6.45 | 7.55 | 7.59 | 1.10 | 1.14 |
| 16:30:00 | 6.41 | 8.25 | 4.95 | 6.40 | 6.17 | 7.41 | -0.22 | 1.01 |
| 16:45:00 | 5.65 | 5.21 | 4.44 | 6.21 | 5.34 | 7.20 | -0.88 | 0.99 |
| 17:00:00 | 6.15 | 3.99 | 5.04 | 6.14 | 4.96 | 7.38 | -1.17 | 1.25 |
| 17:15:00 | 5.87 | 3.96 | 5.12 | 6.05 | 4.94 | 5.87 | -1.11 | -0.18 |
| 17:30:00 | 5.13 | 4.47 | 5.26 | 5.84 | 5.18 | 4.96 | -0.67 | -0.88 |
| 17:45:00 | 5.56 | 4.79 | 5.32 | 5.67 | 4.48 | 5.04 | -1.19 | -0.64 |
| 18:00:00 | 5.06 | 4.02 | 4.56 | 5.55 | 4.25 | 5.06 | -1.31 | -0.49 |