

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

**PERIOD: March 11 – March 15, 2024**

**Date of Report: March 19, 2024**

## **Report Contents**

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## **1. SCOPE OF MONITORING**

### **1.1 Initial Buoy Locations**

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 3<sup>rd</sup> Street Bridge outside of the air curtain and traditional turbidity curtain and was referred to as the 3<sup>rd</sup> 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 was referred to as the Carroll Street Sentinel Buoy. The third turbidity buoy was deployed in the Fourth Street Turning Basin (TB4) in order to monitor background turbidity unaffected by in-water construction activities and was referred to as the Ambient Buoy.

Each turbidity buoy was initially 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.

### **1.2 Summary of Monitoring Adjustments during Construction**

- On January 22, 2021, prior to dredging north of the Union Street Bridge, a fourth turbidity buoy was deployed just south of the Union Street Bridge and was referred to as the Union Street Sentinel Buoy. This fourth turbidity buoy was removed prior to the start of pipe pile installation.
- On Wednesday, September 22, 2021, the Carroll Street Sentinel Buoy was relocated to the west side of the canal where Degraw Street intersects the canal to monitor cofferdam removal activities conducted in the vicinity of the Flushing Tunnel. This buoy was renamed the Degraw Street Sentinel Buoy during cofferdam removal activities.
- On October 14, 2021, the Degraw Street Sentinel Buoy was removed from the canal for servicing. On October 20, 2021, the Degraw Street Sentinel Buoy was redeployed to its position south of the Carroll Street Bridge and was renamed to the Carroll Street Sentinel Buoy.
- On November 15, 2021, the Carroll Street Sentinel Buoy was moved to the Union Street Bridge and renamed the Union Street Sentinel Buoy. On December 3, 2021, the Union Street Buoy was removed from the canal for servicing and re-deployed at 3<sup>rd</sup> Street Bridge in preparation for the resumption of ISS operations. On December 8, 2021, a 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. Due to similar issues, the Ambient Buoy was removed from service again on Monday, April 24, 2023, before being redeployed on Friday, May 12, 2023, and again removed from service on Monday, May 15, 2023, before being redeployed on Monday, June 12, 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.
- Data from the Third Street Sentinel Buoy was not reported from Thursday June 1, 2023 to June 2, 2023 due to a power failure and/or faulty communications system preventing transmission of readings. The Third Street Sentinel Buoy was returned to service with data collection resuming on June 5, 2023.
- On Wednesday, July 26, 2023, a fourth monitoring buoy was deployed just north of the Union Street Bridge to monitor dissolved oxygen (DO) in RTA1.
- On Tuesday, September 19, 2023, the fourth monitoring buoy (originally deployed north of the Union Street Bridge to monitor DO) was moved to just south of the Carroll Street Bridge due to ongoing in-waterway construction activities within 100 feet. In addition to dissolved oxygen, this served as an additional sentinel buoy and was referred to as the South Carroll Street Bridge Sentinel Buoy.
- On Thursday, November 2, 2023, the monitoring buoy deployed just south of the Third Street Bridge was removed from the canal to conduct maintenance and necessary repairs.
- On Monday, November 13, 2023, the monitoring buoy most recently deployed south of the Carroll Street Bridge was moved to just south of the Union Street Bridge due to ongoing in-waterway construction activities within 100 feet. In addition to dissolved oxygen, this served as an additional sentinel buoy and was referred to as the South Union Street Bridge Sentinel Buoy.
- On Tuesday, December 19, 2023, the monitoring buoy most recently deployed south of the Union Street Bridge was moved back to just south of the Carroll Street Bridge due to ongoing in-waterway construction activities within 100 feet of Union Street Bridge. This will again be referred to as the South Carroll Street Bridge Sentinel Buoy, and in addition to turbidity, will continue to monitor dissolved oxygen.

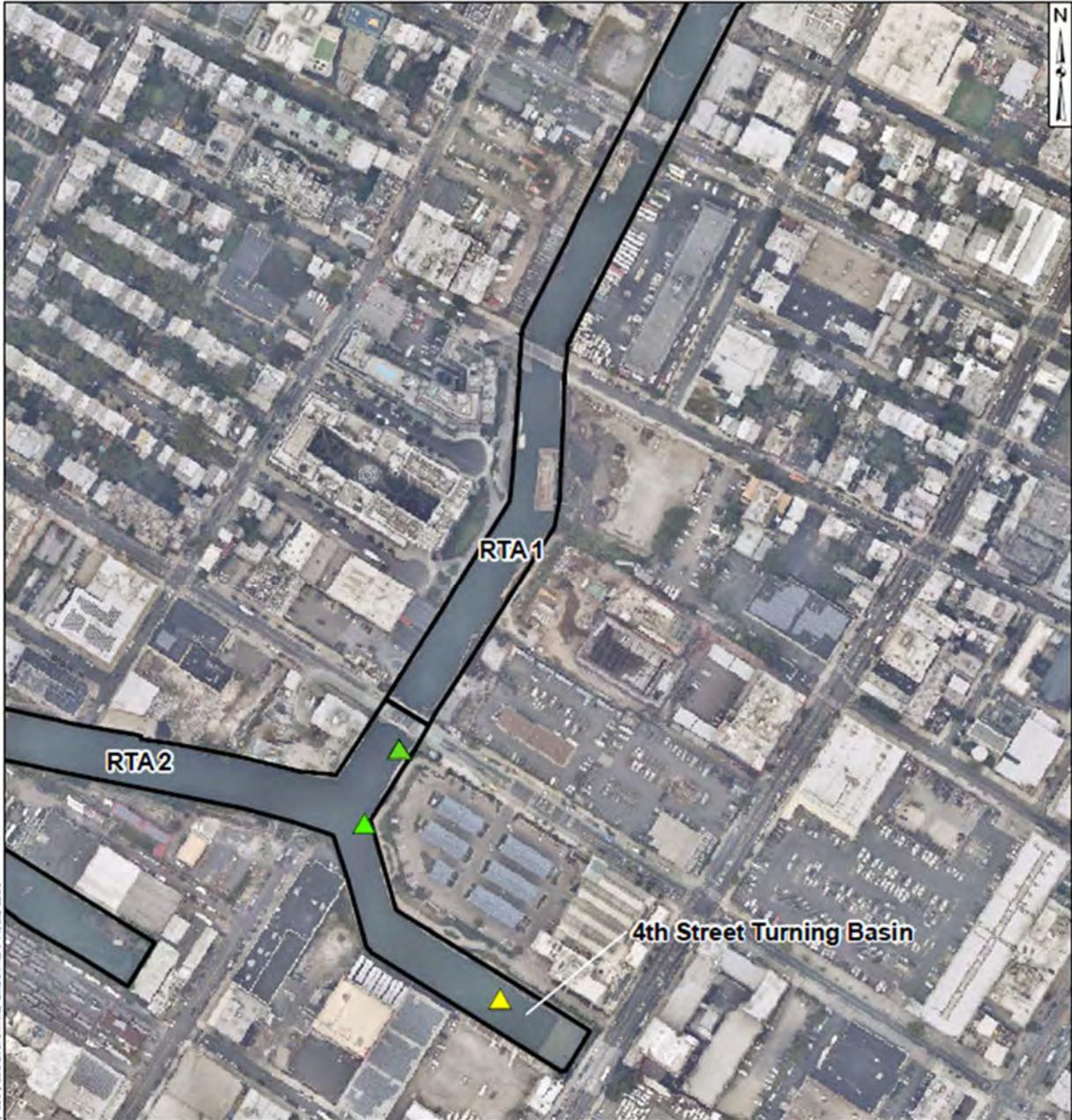
- On Monday, February 12, 2024, the monitoring buoy most recently deployed south of the Carroll Street Bridge was moved to just south of the Third Street Bridge due to ongoing in-waterway construction activities progressing south of the Carroll Street Bridge and into the south pool. This will be referred to as the South Third Street Bridge Sentinel Buoy, and in addition to turbidity, will continue to monitor dissolved oxygen.

### **1.3 Current Reporting Period Scope of Monitoring**

For the week of March 11, 2024, three turbidity buoys were deployed consisting of the Ambient Turbidity Buoy located in the eastern end of TB4, the West TB4 Sentinel Buoy located just outside of any sediment and floatables controls at the southern end of RTA1, and the South Third Street Bridge Sentinel Buoy located just south of the Third Street Bridge. Additionally, DO measurements were recorded by the turbidity buoys.

All readings from buoys were transmitted via telemetry at 15-minute intervals. The instrument used to collect turbidity and DO from the buoys is an In-Situ VuLink (telemetry) and AquaTroll500 (sonde), equipped with optical sensors capable of reading turbidity levels with an accuracy of +/-0.5 NTU and DO levels with an accuracy of +/-0.1 mg/L.

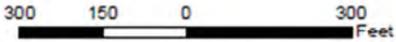
Visual observations of turbidity and sheen are summarized in Section 5.



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**Legend**

- ▲ Ambient Buoy
- ▲ Sentinel Buoy
- RTA Boundary



**Water Quality Monitoring  
Buoy Locations**

Gowanus Canal, Brooklyn, NY

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

*an affiliate of Geosynic Consultants*

Figure

**1**

Brooklyn, NY

February 2024

## 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 March 11 – March 15, 2024.

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

Based on an inspection of the buoys on Wednesday of the reporting period, all water quality meters were found with deposits of fine-grained sediments in and around the turbidity sensors as a result of recent heavy rain events. All sensors were cleaned upon inspection between 8:00 AM and 9:15 AM on Wednesday of the reporting period. Any turbidity readings recorded prior to the Wednesday morning cleaning were considered erroneous and have therefore been discarded from this report.

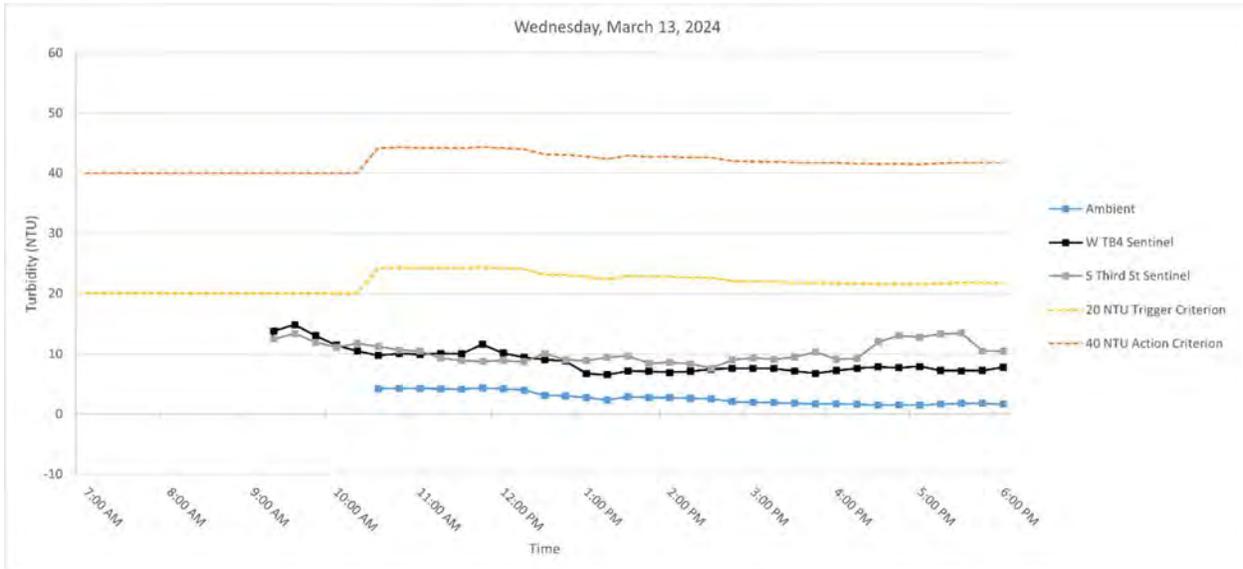
**Table 1** below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)		Maximum Rolling Average Difference (NTU)	
	W TB4 - Ambient	S Third St - Ambient	W TB4 - Ambient	S Third St - Ambient
Monday, March 11, 2024	--	--	--	--
Tuesday, March 12, 2024	--	--	--	--
Wednesday, March 13, 2024	5.48	7.29	7.25	11.73
Thursday, March 14, 2024	2.31	4.99	3.55	8.36
Friday, March 15, 2024	1.71	4.31	2.90	11.65

**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 Wednesday, March 13, 2024

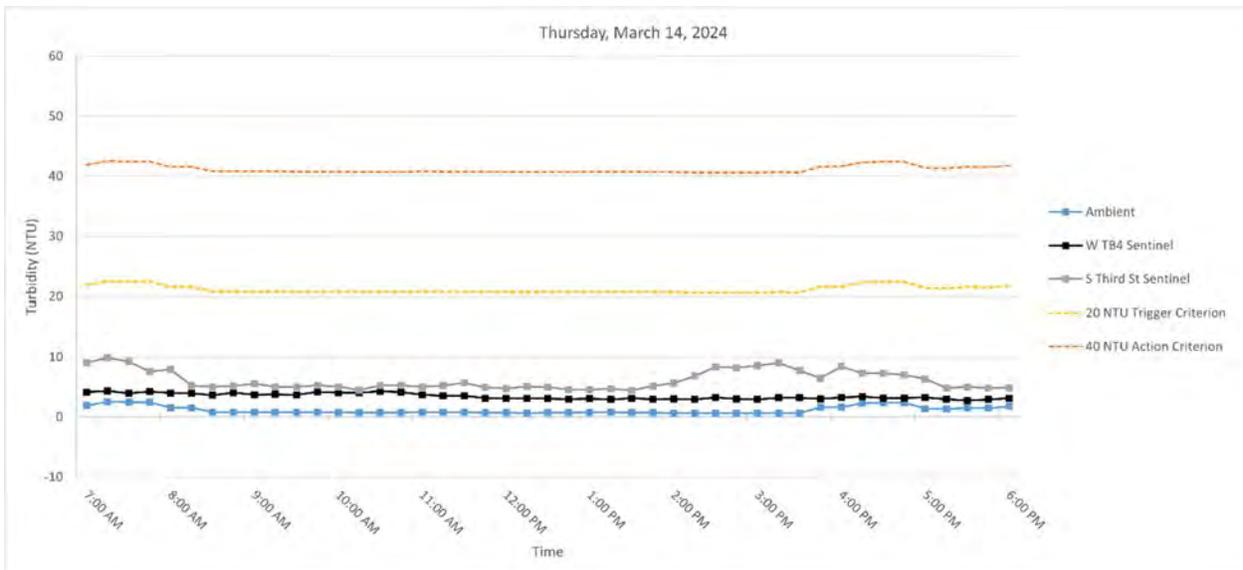
**Figure 4.** Hourly rolling average turbidity readings on Wednesday, March 6, 2024, from 7 AM to 6 PM.



**Note:** No exceedances were observed. Outlier turbidity readings above 20 NTU were detected at the South Third Street Buoy. Any turbidity readings recorded from any of the buoys prior to cleaning conducted between 8:00 AM and 9:15 AM were considered erroneous and therefore discarded.

### 3.2 Thursday, March 14, 2024

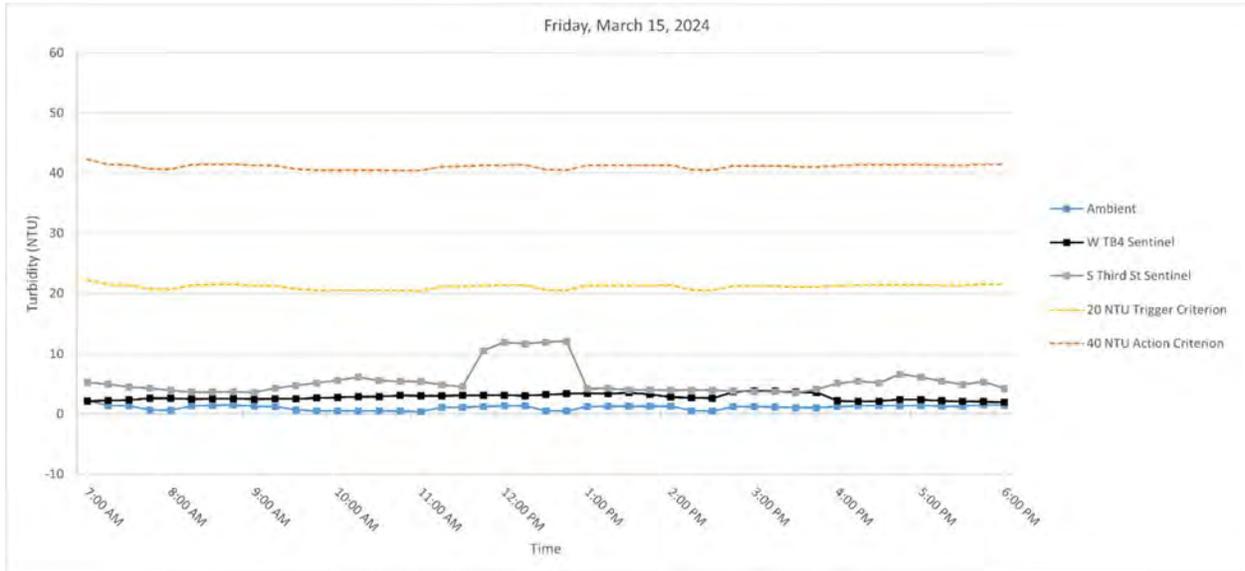
**Figure 5.** Hourly rolling average turbidity readings on Thursday, March 7, 2024, from 7 AM to 6 PM.



**Note:** No exceedances were observed. Outlier turbidity readings above 20 NTU were detected at the South Third Street Buoy.

### 3.3 Friday, March 15, 2024

**Figure 6.** Hourly rolling average turbidity readings on Friday, March 8, 2024, from 7 AM to 6 PM.



**Note:** No exceedances were observed. Outlier turbidity readings above 20 NTU were detected at the South Third Street Buoy.

#### 4. DISSOLVED OXYGEN MONITORING DATA

Dissolved oxygen measured at the monitoring buoys throughout the reporting period is provided in Appendix B and summarized below:

- Ambient
  - Average = 8.07 (+/-0.1) mg/L
  - Min = 5.94 (+/-0.1) mg/L on Monday March 11, 2024
  - Max = 10.53 (+/-0.1) mg/L on Tuesday March 12, 2024
  
- West Turning Basin 4 (W TB4)
  - Average = 8.64 (+/-0.1) mg/L
  - Min = 6.08 (+/-0.1) mg/L on Tuesday March 12, 2024
  - Max = 11.67 (+/-0.1) mg/L on Monday March 11, 2024
  
- South Third Street Bridge (S 3SB)
  - Average = 8.24 (+/-0.1) mg/L
  - Min = 5.43 (+/-0.1) mg/L on Sunday March 10, 2024
  - Max = 11.21 (+/-0.1) mg/L on Monday March 11, 2024

Based on an inspection of the buoys on Wednesday of the reporting period, all water quality meters were found with deposits of fine-grained sediments in and around the sensors as a result of recent heavy rain events. All sensors were cleaned upon inspection between 8:00 AM and 9:15 AM on Wednesday of the reporting period. Following the cleaning of the DO sensor at the Ambient Buoy, dissolved oxygen readings became unrealistically erratic. Therefore, any dissolved oxygen readings recorded after the Wednesday morning cleaning event have been discarded from this report. Investigations into the cause of the erratic dissolved oxygen readings remain ongoing.

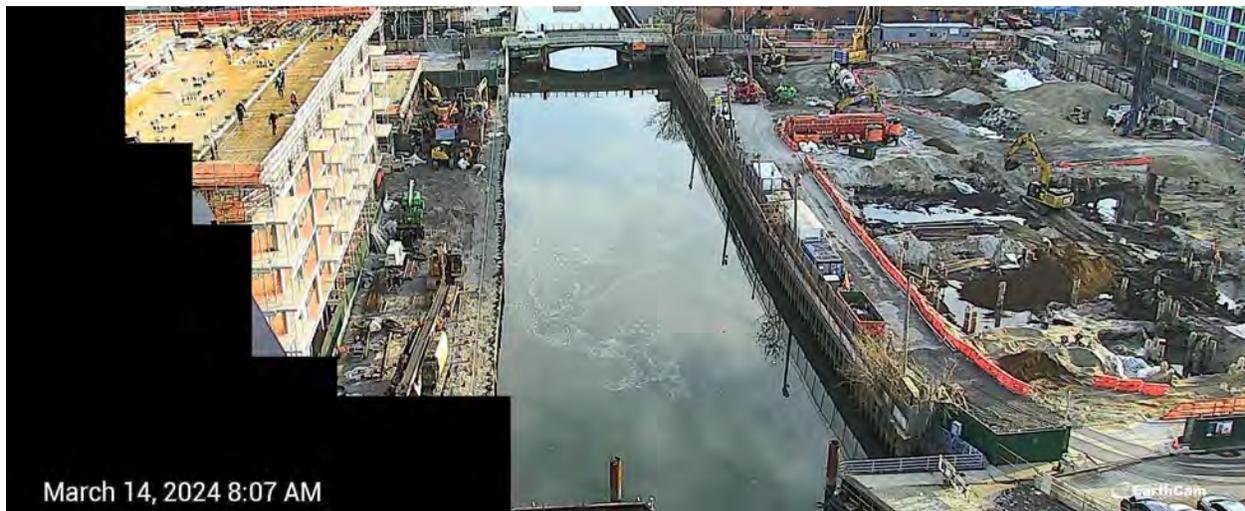
## 5. SUMMARY OF VISUAL OBSERVATIONS

Visual indications of elevated turbidity were periodically observed during the reporting period attributable to capping activities, typically due to temporarily suspended sediment from passing vessels. No sheens attributable to in-canal work operations were observed above background conditions.

Significant sheening was observed within RTA1 on one occasion during the reporting period that was unrelated to in-canal work operations. This sheen event is summarized below:

- On Tuesday morning of the reporting period a sheen was observed between Union Street Bridge and Carroll Street Bridge migrating south with a light variable wind and an incoming tide (see **Figures 7 & 8**). The sheen appeared to originate from an unknown source in the north pool within RTA1. No sheen associated with this event was observed passing south of the Third Street Bridge.

Photographs depicting conditions relevant to these events are shown below.



**Figure 7.** At 8:00 AM on Thursday, March 14, 2024, a sheen was observed between Union Street Bridge and Carroll Street Bridge migrating south with a light variable wind and an incoming tide.



**Figure 8.** At 8:30 AM on Thursday, March 14, 2024, a sheen was observed around Carroll Street Bridge migrating south with a light variable wind and an incoming tide.

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

### Wednesday, March 13, 2024

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	W TB4	S Third Street	Ambient	W TB4	S Third Street	W TB4 - Ambient	S 3SB - Ambient
7:00:00	--	--	--	--	--	--	--	--
7:15:00	--	--	--	--	--	--	--	--
7:30:00	--	--	--	--	--	--	--	--
7:45:00	--	--	--	--	--	--	--	--
8:00:00	--	--	--	--	--	--	--	--
8:15:00	--	7.83	6.11	--	7.83	6.11	--	--
8:30:00	--	19.50	16.46	--	13.66	11.29	--	--
8:45:00	--	15.66	16.92	--	14.33	13.17	--	--
9:00:00	--	13.32	12.04	--	14.08	12.88	--	--
9:15:00	--	12.93	11.01	--	13.85	12.51	--	--
9:30:00	3.85	12.93	10.64	3.85	14.87	13.41	11.02	9.56
9:45:00	3.66	10.49	9.15	3.75	13.07	11.95	9.31	8.20
10:00:00	7.26	7.55	12.76	4.92	11.44	11.12	6.52	6.20
10:15:00	2.77	8.53	15.05	4.39	10.48	11.72	6.10	7.34
10:30:00	3.42	9.48	8.86	4.19	9.79	11.29	5.60	7.10
10:45:00	4.36	14.21	7.52	4.30	10.05	10.67	5.75	6.37
11:00:00	3.42	9.97	8.16	4.25	9.95	10.47	5.70	6.22
11:15:00	7.12	8.40	7.21	4.22	10.12	9.36	5.90	5.14
11:30:00	2.56	8.06	12.61	4.18	10.02	8.87	5.84	4.69
11:45:00	4.20	17.30	8.42	4.33	11.59	8.79	7.25	4.45
12:00:00	3.60	7.11	7.96	4.18	10.17	8.87	5.98	4.69
12:15:00	2.54	6.32	7.38	4.01	9.44	8.72	5.43	4.71
12:30:00	2.70	6.55	13.81	3.12	9.07	10.04	5.95	6.92
12:45:00	2.21	6.82	7.60	3.05	8.82	9.04	5.77	5.98
13:00:00	--	6.86	7.58	2.76	6.73	8.87	3.97	6.10
13:15:00	1.92	6.21	10.94	2.34	6.55	9.46	4.21	7.12
13:30:00	4.79	9.26	8.55	2.90	7.14	9.70	4.23	6.79
13:45:00	2.07	6.45	7.64	2.75	7.12	8.46	4.37	5.72
14:00:00	2.15	5.94	8.24	2.73	6.94	8.59	4.21	5.86
14:15:00	2.15	7.72	6.44	2.62	7.12	8.36	4.50	5.75
14:30:00	1.75	8.04	7.17	2.58	7.48	7.61	4.90	5.03
14:45:00	--	10.04	15.62	2.03	7.64	9.02	5.61	6.99
15:00:00	1.71	6.37	--	1.94	7.62	9.37	5.68	7.43
15:15:00	2.01	5.73	7.29	1.90	7.58	9.13	5.67	7.22
15:30:00	1.57	5.50	7.94	1.76	7.14	9.50	5.38	7.75
15:45:00	1.60	6.16	10.59	1.72	6.76	10.36	5.04	8.64
16:00:00	--	12.55	10.66	1.72	7.26	9.12	5.54	7.40
16:15:00	1.36	8.08	9.93	1.63	7.60	9.28	5.97	7.65
16:30:00	--	6.92	21.00	1.51	7.84	12.02	6.33	10.51
16:45:00	1.68	4.91	--	1.54	7.72	13.04	6.18	11.50
17:00:00	1.44	7.17	9.59	1.49	7.93	12.79	6.43	11.30
17:15:00	2.23	9.04	12.79	1.68	7.23	13.33	5.55	11.65
17:30:00	1.71	8.08	10.59	1.77	7.22	13.49	5.46	11.73
17:45:00	--	7.02	9.14	1.77	7.24	10.53	5.48	8.76
18:00:00	1.39	--	10.05	1.69	7.83	10.43	6.13	8.74

## Thursday, March 7, 2024

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	W TB4	S Third Street	Ambient	W TB4	S Third Street	W TB4 - Ambient	S 3SB - Ambient
7:00:00	0.91	4.18	15.83	1.88	4.16	9.05	2.28	7.17
7:15:00	4.54	4.24	--	2.56	4.32	9.85	1.76	7.29
7:30:00	0.79	3.54	4.16	2.45	3.95	9.23	1.50	6.78
7:45:00	0.89	4.66	5.13	2.46	4.22	7.55	1.76	5.09
8:00:00	0.77	3.38	6.71	1.58	4.00	7.96	2.42	6.38
8:15:00	0.77	4.09	4.83	1.55	3.98	5.21	2.43	3.66
8:30:00	--	2.54	4.45	0.81	3.64	5.06	2.83	4.25
8:45:00	0.82	5.55	4.77	0.81	4.04	5.18	3.23	4.37
9:00:00	0.82	2.99	7.08	0.79	3.71	5.57	2.92	4.78
9:15:00	0.78	3.63	3.99	0.80	3.76	5.03	2.96	4.23
9:30:00	0.71	3.77	4.81	0.78	3.70	5.02	2.91	4.24
9:45:00	--	5.15	5.61	0.78	4.22	5.25	3.44	4.47
10:00:00	0.72	4.77	3.82	0.76	4.06	5.06	3.30	4.31
10:15:00	--	2.92	4.25	0.74	4.05	4.50	3.31	3.76
10:30:00	0.76	4.81	7.75	0.73	4.28	5.25	3.55	4.52
10:45:00	0.71	3.14	4.95	0.73	4.16	5.28	3.43	4.55
11:00:00	1.08	3.06	4.51	0.82	3.74	5.06	2.92	4.24
11:15:00	0.54	3.79	4.59	0.77	3.54	5.21	2.77	4.44
11:30:00	--	2.96	6.60	0.77	3.55	5.68	2.78	4.91
11:45:00	0.64	2.77	4.07	0.75	3.14	4.94	2.40	4.20
12:00:00	0.67	3.12	4.00	0.73	3.14	4.75	2.41	4.02
12:15:00	0.86	3.03	6.09	0.68	3.13	5.07	2.46	4.39
12:30:00	0.69	3.52	4.22	0.71	3.08	5.00	2.37	4.28
12:45:00	--	2.49	4.54	0.71	2.99	4.58	2.27	3.87
13:00:00	0.82	3.32	4.00	0.76	3.10	4.57	2.34	3.81
13:15:00	--	2.21	4.64	0.79	2.91	4.70	2.13	3.91
13:30:00	0.76	3.96	4.72	0.75	3.10	4.42	2.35	3.67
13:45:00	0.61	2.93	8.11	0.73	2.98	5.20	2.25	4.47
14:00:00	0.56	2.69	6.71	0.69	3.02	5.64	2.34	4.95
14:15:00	0.63	2.94	10.02	0.64	2.95	6.84	2.31	6.20
14:30:00	--	3.86	12.17	0.64	3.28	8.35	2.64	7.71
14:45:00	0.73	2.75	4.14	0.63	3.03	8.23	2.41	7.60
15:00:00	0.61	2.52	9.75	0.63	2.95	8.56	2.32	7.93
15:15:00	0.68	4.02	--	0.66	3.22	9.02	2.56	8.36
15:30:00	0.46	2.93	4.99	0.62	3.22	7.77	2.60	7.15
15:45:00	5.59	2.98	7.06	1.61	3.04	6.49	1.43	4.87
16:00:00	0.83	3.77	11.93	1.63	3.24	8.43	1.61	6.80
16:15:00	4.06	3.35	5.17	2.32	3.41	7.29	1.08	4.96
16:30:00	1.02	2.73	--	2.39	3.15	7.29	0.76	4.89
16:45:00	0.49	2.91	3.84	2.40	3.15	7.00	0.75	4.60
17:00:00	0.59	3.58	4.53	1.40	3.27	6.37	1.87	4.97
17:15:00	0.53	2.22	5.89	1.34	2.96	4.86	1.62	3.52
17:30:00	5.10	2.23	5.78	1.55	2.74	5.01	1.19	3.47
17:45:00	0.78	3.80	4.32	1.50	2.95	4.87	1.45	3.38
18:00:00	--	3.67	4.03	1.75	3.10	4.91	1.35	3.16

## Friday, March 8, 2024

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	W TB4	S Third Street	Ambient	W TB4	S Third Street	W TB4 - Ambient	S 3SB - Ambient
7:00:00	0.54	2.93	4.94	2.28	2.17	5.25	-0.12	2.97
7:15:00	0.79	2.37	3.16	1.40	2.25	4.95	0.85	3.55
7:30:00	0.44	1.78	3.96	1.35	2.32	4.50	0.97	3.15
7:45:00	--	3.33	3.88	0.67	2.62	4.31	1.95	3.64
8:00:00	0.67	2.64	3.70	0.61	2.61	3.93	2.00	3.32
8:15:00	3.54	2.20	3.59	1.36	2.47	3.66	1.11	2.30
8:30:00	1.15	2.68	3.09	1.45	2.53	3.64	1.08	2.19
8:45:00	0.55	2.03	4.14	1.48	2.58	3.68	1.10	2.20
9:00:00	0.54	2.76	3.42	1.29	2.46	3.59	1.17	2.30
9:15:00	0.45	2.85	7.34	1.25	2.50	4.32	1.26	3.07
9:30:00	--	2.18	5.67	0.67	2.50	4.73	1.83	4.06
9:45:00	0.50	3.39	5.43	0.51	2.64	5.20	2.13	4.69
10:00:00	--	2.64	6.07	0.50	2.76	5.59	2.27	5.09
10:15:00	0.50	3.36	--	0.48	2.89	6.13	2.40	5.64
10:30:00	0.44	2.88	5.16	0.48	2.89	5.58	2.41	5.10
10:45:00	0.34	3.16	4.99	0.45	3.09	5.41	2.64	4.97
11:00:00	0.42	3.05	5.29	0.43	3.02	5.38	2.59	4.95
11:15:00	3.63	2.65	3.98	1.07	3.02	4.86	1.96	3.79
11:30:00	0.69	3.74	3.31	1.10	3.10	4.55	1.99	3.44
11:45:00	--	2.75	35.10	1.27	3.07	10.53	1.80	9.27
12:00:00	0.59	3.33	--	1.33	3.10	11.92	1.77	10.59
12:15:00	0.53	2.60	4.47	1.36	3.01	11.72	1.65	10.36
12:30:00	0.41	3.63	5.00	0.56	3.21	11.97	2.65	11.41
12:45:00	0.38	4.58	3.94	0.48	3.38	12.13	2.90	11.65
13:00:00	4.45	3.25	3.42	1.27	3.48	4.21	2.20	2.93
13:15:00	0.80	2.74	4.39	1.31	3.36	4.24	2.04	2.93
13:30:00	0.47	3.50	3.42	1.30	3.54	4.03	2.24	2.73
13:45:00	0.30	2.36	4.61	1.28	3.28	3.96	2.00	2.68
14:00:00	0.57	2.14	3.68	1.32	2.80	3.90	1.48	2.59
14:15:00	--	2.75	3.63	0.53	2.70	3.95	2.16	3.41
14:30:00	0.56	2.24	4.18	0.48	2.60	3.91	2.12	3.43
14:45:00	3.32	8.90	3.27	1.19	3.68	3.88	2.49	2.69
15:00:00	0.30	3.36	3.78	1.19	3.88	3.71	2.69	2.52
15:15:00	0.50	1.62	--	1.17	3.77	3.72	2.60	2.54
15:30:00	0.54	2.14	2.73	1.05	3.65	3.49	2.61	2.45
15:45:00	0.45	1.90	6.63	1.02	3.59	4.10	2.56	3.08
16:00:00	4.48	2.00	7.28	1.25	2.21	5.11	0.95	3.85
16:15:00	0.83	2.89	5.27	1.36	2.11	5.48	0.75	4.12
16:30:00	0.57	1.88	4.07	1.37	2.16	5.20	0.79	3.82
16:45:00	0.50	3.52	9.84	1.36	2.44	6.62	1.07	5.25
17:00:00	0.56	1.55	4.10	1.39	2.37	6.11	0.98	4.72
17:15:00	4.09	1.21	4.04	1.31	2.21	5.46	0.90	4.15
17:30:00	0.76	2.30	2.38	1.30	2.09	4.88	0.79	3.59
17:45:00	--	1.68	6.40	1.48	2.05	5.35	0.57	3.87
18:00:00	0.45	2.94	--	1.47	1.94	4.23	0.47	2.76

**APPENDIX B**  
**Dissolved Oxygen Data**

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/10/2024	0:00:00	8.16	9.22	9.18
3/10/2024	0:15:00	8.60	9.04	9.19
3/10/2024	0:30:00	8.78	9.09	9.12
3/10/2024	0:45:00	8.77	9.34	9.43
3/10/2024	1:00:00	8.95	9.56	9.45
3/10/2024	1:15:00	8.95	9.03	9.30
3/10/2024	1:30:00	9.00	9.33	8.94
3/10/2024	1:45:00	8.95	9.12	8.81
3/10/2024	2:00:00	8.72	9.21	8.80
3/10/2024	2:15:00	8.80	8.87	8.57
3/10/2024	2:30:00	8.54	9.02	8.67
3/10/2024	2:45:00	8.73	9.03	8.94
3/10/2024	3:00:00	8.69	8.93	8.69
3/10/2024	3:15:00	8.82	8.77	8.67
3/10/2024	3:30:00	8.82	8.77	7.75
3/10/2024	3:45:00	8.78	8.99	8.18
3/10/2024	4:00:00	8.73	8.33	8.84
3/10/2024	4:15:00	8.66	7.77	8.82
3/10/2024	4:30:00	8.68	8.09	8.79
3/10/2024	4:45:00	8.71	7.94	8.19
3/10/2024	5:00:00	8.48	8.29	8.28
3/10/2024	5:15:00	8.24	8.51	8.25
3/10/2024	5:30:00	8.66	8.31	8.25
3/10/2024	5:45:00	8.52	8.34	8.74
3/10/2024	6:00:00	8.51	8.37	8.24
3/10/2024	6:15:00	8.26	8.22	8.07
3/10/2024	6:30:00	7.74	7.76	8.38
3/10/2024	6:45:00	7.82	7.03	7.92
3/10/2024	7:00:00	7.65	7.16	8.06
3/10/2024	7:15:00	7.75	7.28	8.14
3/10/2024	7:30:00	7.94	8.74	7.88
3/10/2024	7:45:00	8.09	7.75	8.73
3/10/2024	8:00:00	7.83	7.40	8.61
3/10/2024	8:15:00	7.79	7.82	7.97
3/10/2024	8:30:00	7.57	8.05	7.81
3/10/2024	8:45:00	7.59	7.36	7.87
3/10/2024	9:00:00	7.57	8.06	7.78
3/10/2024	9:15:00	7.56	7.56	7.87
3/10/2024	9:30:00	7.42	7.59	7.82
3/10/2024	9:45:00	7.25	7.10	7.78
3/10/2024	10:00:00	7.10	8.11	7.70
3/10/2024	10:15:00	7.26	7.75	7.74
3/10/2024	10:30:00	7.23	7.75	7.77
3/10/2024	10:45:00	7.09	8.08	7.99
3/10/2024	11:00:00	6.94	8.00	7.58
3/10/2024	11:15:00	7.12	7.71	7.40
3/10/2024	11:30:00	7.00	7.86	7.64
3/10/2024	11:45:00	7.08	8.12	7.15

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/10/2024	12:00:00	6.92	8.01	7.25
3/10/2024	12:15:00	6.61	7.42	6.96
3/10/2024	12:30:00	6.50	7.61	7.25
3/10/2024	12:45:00	6.83	7.64	6.78
3/10/2024	13:00:00	6.35	7.43	6.28
3/10/2024	13:15:00	6.67	6.83	6.07
3/10/2024	13:30:00	6.69	7.40	6.16
3/10/2024	13:45:00	6.43	7.29	6.09
3/10/2024	14:00:00	6.46	7.28	5.43
3/10/2024	14:15:00	6.56	7.37	5.74
3/10/2024	14:30:00	6.81	7.30	5.97
3/10/2024	14:45:00	6.79	7.33	5.58
3/10/2024	15:00:00	6.58	7.25	6.38
3/10/2024	15:15:00	6.60	7.44	7.66
3/10/2024	15:30:00	6.45	6.70	7.23
3/10/2024	15:45:00	6.54	7.12	8.28
3/10/2024	16:00:00	6.53	7.32	6.13
3/10/2024	16:15:00	6.72	8.60	6.58
3/10/2024	16:30:00	8.52	8.73	8.06
3/10/2024	16:45:00	8.11	8.46	7.62
3/10/2024	17:00:00	8.10	8.28	7.82
3/10/2024	17:15:00	7.94	8.14	7.69
3/10/2024	17:30:00	7.76	8.18	7.90
3/10/2024	17:45:00	7.34	7.98	7.66
3/10/2024	18:00:00	7.13	8.16	7.76
3/10/2024	18:15:00	7.15	8.23	7.84
3/10/2024	18:30:00	6.76	8.08	7.94
3/10/2024	18:45:00	6.84	8.10	7.82
3/10/2024	19:00:00	7.01	8.19	7.94
3/10/2024	19:15:00	6.71	7.96	7.92
3/10/2024	19:30:00	6.76	8.01	8.07
3/10/2024	19:45:00	6.71	8.00	7.91
3/10/2024	20:00:00	6.82	7.93	7.98
3/10/2024	20:15:00	6.89	7.65	8.26
3/10/2024	20:30:00	6.84	7.62	7.74
3/10/2024	20:45:00	7.02	7.56	7.87
3/10/2024	21:00:00	7.04	7.48	7.83
3/10/2024	21:15:00	7.29	8.15	7.82
3/10/2024	21:30:00	7.33	8.03	7.88
3/10/2024	21:45:00	7.04	7.39	7.74
3/10/2024	22:00:00	7.00	7.50	7.78
3/10/2024	22:15:00	6.53	7.72	7.69
3/10/2024	22:30:00	6.59	7.55	7.75
3/10/2024	22:45:00	6.59	7.16	7.67
3/10/2024	23:00:00	6.54	7.23	7.08
3/10/2024	23:15:00	6.80	7.05	7.54
3/10/2024	23:30:00	6.59	7.00	7.65
3/10/2024	23:45:00	6.64	7.05	7.72

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/11/2024	0:00:00	6.45	6.92	7.35
3/11/2024	0:15:00	6.48	6.88	7.51
3/11/2024	0:30:00	6.52	7.09	7.25
3/11/2024	0:45:00	6.58	7.63	8.17
3/11/2024	1:00:00	6.43	7.05	7.63
3/11/2024	1:15:00	6.36	7.29	7.48
3/11/2024	1:30:00	6.42	7.61	7.32
3/11/2024	1:45:00	6.32	7.05	7.32
3/11/2024	2:00:00	6.33	6.97	7.30
3/11/2024	2:15:00	6.33	6.76	7.18
3/11/2024	2:30:00	6.21	7.09	7.45
3/11/2024	2:45:00	6.49	6.80	7.13
3/11/2024	3:00:00	6.51	6.47	7.08
3/11/2024	3:15:00	6.75	6.72	6.97
3/11/2024	3:30:00	6.81	6.67	7.03
3/11/2024	3:45:00	6.17	6.27	6.83
3/11/2024	4:00:00	6.64	6.29	6.80
3/11/2024	4:15:00	6.09	7.29	6.51
3/11/2024	4:30:00	5.98	6.99	6.70
3/11/2024	4:45:00	6.42	7.56	6.72
3/11/2024	5:00:00	6.30	7.04	6.59
3/11/2024	5:15:00	6.31	7.36	6.75
3/11/2024	5:30:00	6.54	7.56	6.73
3/11/2024	5:45:00	6.50	7.59	7.06
3/11/2024	6:00:00	6.51	8.45	7.30
3/11/2024	6:15:00	6.61	8.87	8.49
3/11/2024	6:30:00	6.88	8.98	9.00
3/11/2024	6:45:00	7.11	9.70	9.25
3/11/2024	7:00:00	7.24	10.00	9.26
3/11/2024	7:15:00	7.59	9.87	8.51
3/11/2024	7:30:00	8.00	10.11	8.71
3/11/2024	7:45:00	8.29	9.73	8.60
3/11/2024	8:00:00	8.30	9.15	8.68
3/11/2024	8:15:00	8.23	9.34	9.07
3/11/2024	8:30:00	8.37	9.29	9.87
3/11/2024	8:45:00	8.32	9.11	9.36
3/11/2024	9:00:00	7.90	9.63	9.51
3/11/2024	9:15:00	8.24	8.91	9.18
3/11/2024	9:30:00	8.31	9.24	9.00
3/11/2024	9:45:00	8.06	9.14	9.22
3/11/2024	10:00:00	8.19	9.97	9.10
3/11/2024	10:15:00	8.22	9.52	9.44
3/11/2024	10:30:00	7.99	9.38	9.34
3/11/2024	10:45:00	7.79	9.06	9.25
3/11/2024	11:00:00	7.77	8.95	9.27
3/11/2024	11:15:00	7.95	8.88	9.03
3/11/2024	11:30:00	7.84	9.00	8.66
3/11/2024	11:45:00	7.90	9.13	8.44

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/11/2024	12:00:00	8.00	8.50	8.47
3/11/2024	12:15:00	7.89	8.47	8.47
3/11/2024	12:30:00	7.76	8.59	8.50
3/11/2024	12:45:00	7.84	8.56	8.23
3/11/2024	13:00:00	7.70	8.55	8.40
3/11/2024	13:15:00	7.82	8.59	8.24
3/11/2024	13:30:00	7.54	8.75	7.82
3/11/2024	13:45:00	7.61	8.63	7.65
3/11/2024	14:00:00	7.46	8.50	7.56
3/11/2024	14:15:00	7.63	8.54	7.06
3/11/2024	14:30:00	7.53	8.44	7.43
3/11/2024	14:45:00	7.88	8.42	7.27
3/11/2024	15:00:00	8.37	8.36	7.10
3/11/2024	15:15:00	8.40	8.21	7.02
3/11/2024	15:30:00	8.31	8.01	6.88
3/11/2024	15:45:00	7.87	7.38	6.77
3/11/2024	16:00:00	8.52	7.46	6.72
3/11/2024	16:15:00	8.05	7.33	6.69
3/11/2024	16:30:00	8.26	7.22	6.64
3/11/2024	16:45:00	8.02	7.26	6.71
3/11/2024	17:00:00	7.95	7.35	6.94
3/11/2024	17:15:00	6.87	7.20	6.71
3/11/2024	17:30:00	6.69	7.16	7.21
3/11/2024	17:45:00	6.57	9.09	8.32
3/11/2024	18:00:00	6.42	9.59	8.83
3/11/2024	18:15:00	6.84	10.15	9.60
3/11/2024	18:30:00	7.02	10.38	9.93
3/11/2024	18:45:00	7.08	10.83	10.27
3/11/2024	19:00:00	8.04	10.92	10.41
3/11/2024	19:15:00	8.43	11.12	10.53
3/11/2024	19:30:00	9.01	11.27	10.67
3/11/2024	19:45:00	9.55	11.38	10.79
3/11/2024	20:00:00	9.54	11.37	10.87
3/11/2024	20:15:00	9.79	11.43	11.01
3/11/2024	20:30:00	9.75	11.51	10.94
3/11/2024	20:45:00	9.55	11.52	11.05
3/11/2024	21:00:00	9.96	11.56	11.01
3/11/2024	21:15:00	9.84	11.60	11.02
3/11/2024	21:30:00	9.82	11.60	11.05
3/11/2024	21:45:00	10.17	11.67	11.11
3/11/2024	22:00:00	10.28	11.59	11.19
3/11/2024	22:15:00	10.38	11.65	11.21
3/11/2024	22:30:00	10.25	11.63	11.19
3/11/2024	22:45:00	10.39	11.62	11.16
3/11/2024	23:00:00	10.38	11.58	11.15
3/11/2024	23:15:00	10.45	11.62	11.15
3/11/2024	23:30:00	10.47	11.60	11.13
3/11/2024	23:45:00	10.49	11.54	11.06

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/12/2024	0:00:00	10.49	11.54	11.10
3/12/2024	0:15:00	10.49	11.37	11.09
3/12/2024	0:30:00	10.53	11.46	10.93
3/12/2024	0:45:00	10.52	11.27	10.99
3/12/2024	1:00:00	10.50	11.18	10.85
3/12/2024	1:15:00	10.44	11.22	10.64
3/12/2024	1:30:00	10.45	10.90	10.34
3/12/2024	1:45:00	10.47	10.85	10.10
3/12/2024	2:00:00	10.38	10.46	10.09
3/12/2024	2:15:00	9.87	10.08	9.96
3/12/2024	2:30:00	9.74	9.69	9.75
3/12/2024	2:45:00	9.27	9.67	9.72
3/12/2024	3:00:00	9.35	9.61	9.48
3/12/2024	3:15:00	9.02	9.35	9.29
3/12/2024	3:30:00	9.47	8.83	9.45
3/12/2024	3:45:00	9.22	8.93	9.05
3/12/2024	4:00:00	8.55	8.89	8.88
3/12/2024	4:15:00	8.18	8.76	9.00
3/12/2024	4:30:00	7.96	9.01	8.91
3/12/2024	4:45:00	8.43	9.06	8.59
3/12/2024	5:00:00	8.74	9.47	8.83
3/12/2024	5:15:00	8.48	9.61	8.88
3/12/2024	5:30:00	8.12	10.10	9.16
3/12/2024	5:45:00	8.96	10.31	9.58
3/12/2024	6:00:00	9.81	10.26	9.73
3/12/2024	6:15:00	10.06	10.17	9.77
3/12/2024	6:30:00	9.45	10.18	9.77
3/12/2024	6:45:00	9.40	10.17	9.90
3/12/2024	7:00:00	9.32	10.25	10.00
3/12/2024	7:15:00	9.23	10.48	10.09
3/12/2024	7:30:00	9.28	10.55	10.20
3/12/2024	7:45:00	9.35	10.78	10.19
3/12/2024	8:00:00	9.26	10.62	10.41
3/12/2024	8:15:00	9.20	10.35	9.70
3/12/2024	8:30:00	9.23	10.23	10.43
3/12/2024	8:45:00	9.28	10.35	10.06
3/12/2024	9:00:00	9.28	10.43	10.03
3/12/2024	9:15:00	9.25	10.53	10.11
3/12/2024	9:30:00	9.47	10.78	9.74
3/12/2024	9:45:00	9.58	10.60	10.04
3/12/2024	10:00:00	9.60	10.60	10.19
3/12/2024	10:15:00	9.58	10.73	10.24
3/12/2024	10:30:00	9.66	10.86	10.21
3/12/2024	10:45:00	9.74	10.87	10.34
3/12/2024	11:00:00	9.69	10.90	10.36
3/12/2024	11:15:00	9.70	10.86	10.37
3/12/2024	11:30:00	9.75	10.99	10.35
3/12/2024	11:45:00	9.76	10.99	10.38

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/12/2024	12:00:00	9.84	10.99	10.34
3/12/2024	12:15:00	9.84	10.81	10.45
3/12/2024	12:30:00	9.86	10.55	9.32
3/12/2024	12:45:00	9.84	10.46	9.61
3/12/2024	13:00:00	9.86	10.44	9.74
3/12/2024	13:15:00	9.86	9.74	8.88
3/12/2024	13:30:00	9.87	9.83	9.05
3/12/2024	13:45:00	9.89	10.16	9.10
3/12/2024	14:00:00	9.38	10.30	9.11
3/12/2024	14:15:00	9.39	10.50	9.18
3/12/2024	14:30:00	9.38	10.18	9.10
3/12/2024	14:45:00	9.68	9.95	8.73
3/12/2024	15:00:00	9.43	9.37	8.45
3/12/2024	15:15:00	9.48	9.05	8.38
3/12/2024	15:30:00	9.40	9.37	8.57
3/12/2024	15:45:00	9.38	9.18	8.77
3/12/2024	16:00:00	9.43	9.10	8.75
3/12/2024	16:15:00	9.42	9.07	8.75
3/12/2024	16:30:00	9.07	9.16	8.73
3/12/2024	16:45:00	9.43	9.13	8.64
3/12/2024	17:00:00	9.31	9.10	7.74
3/12/2024	17:15:00	9.17	9.12	8.03
3/12/2024	17:30:00	9.30	9.01	8.31
3/12/2024	17:45:00	9.46	8.88	8.32
3/12/2024	18:00:00	9.18	9.11	8.46
3/12/2024	18:15:00	9.36	9.11	8.65
3/12/2024	18:30:00	9.18	9.03	8.62
3/12/2024	18:45:00	8.92	8.87	8.57
3/12/2024	19:00:00	8.14	8.81	8.46
3/12/2024	19:15:00	8.27	8.68	8.34
3/12/2024	19:30:00	8.15	8.81	8.41
3/12/2024	19:45:00	8.06	8.62	8.56
3/12/2024	20:00:00	7.96	8.65	9.02
3/12/2024	20:15:00	7.70	9.40	9.26
3/12/2024	20:30:00	7.68	9.11	9.21
3/12/2024	20:45:00	7.24	9.20	9.21
3/12/2024	21:00:00	7.27	9.29	9.25
3/12/2024	21:15:00	7.29	8.80	9.17
3/12/2024	21:30:00	7.19	9.17	9.13
3/12/2024	21:45:00	7.24	8.72	8.99
3/12/2024	22:00:00	7.32	8.55	8.81
3/12/2024	22:15:00	7.02	8.16	8.91
3/12/2024	22:30:00	7.54	7.82	8.63
3/12/2024	22:45:00	7.58	6.90	8.87
3/12/2024	23:00:00	7.41	6.08	8.66
3/12/2024	23:15:00	7.11	8.06	8.03
3/12/2024	23:30:00	7.35	8.26	8.28
3/12/2024	23:45:00	6.72	8.57	8.04

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/13/2024	0:00:00	7.14	8.39	8.10
3/13/2024	0:15:00	7.38	8.07	8.10
3/13/2024	0:30:00	7.78	8.52	8.02
3/13/2024	0:45:00	7.97	7.60	8.11
3/13/2024	1:00:00	7.26	7.81	8.19
3/13/2024	1:15:00	7.70	8.32	8.10
3/13/2024	1:30:00	7.38	8.11	8.05
3/13/2024	1:45:00	7.19	8.18	8.13
3/13/2024	2:00:00	7.50	8.05	8.06
3/13/2024	2:15:00	7.12	8.07	8.04
3/13/2024	2:30:00	7.68	7.81	8.30
3/13/2024	2:45:00	7.68	7.67	8.04
3/13/2024	3:00:00	7.21	7.05	7.76
3/13/2024	3:15:00	7.24	7.49	7.93
3/13/2024	3:30:00	7.39	7.62	7.67
3/13/2024	3:45:00	7.16	7.76	7.75
3/13/2024	4:00:00	7.45	7.10	7.70
3/13/2024	4:15:00	7.05	7.59	7.66
3/13/2024	4:30:00	7.19	7.50	7.69
3/13/2024	4:45:00	7.79	7.51	7.45
3/13/2024	5:00:00	7.64	7.00	7.54
3/13/2024	5:15:00	7.93	8.22	7.73
3/13/2024	5:30:00	6.78	7.77	7.57
3/13/2024	5:45:00	7.46	7.49	7.61
3/13/2024	6:00:00	7.13	7.57	7.42
3/13/2024	6:15:00	6.42	8.03	7.66
3/13/2024	6:30:00	7.06	7.98	7.53
3/13/2024	6:45:00	7.00	7.89	7.71
3/13/2024	7:00:00	7.22	8.25	7.77
3/13/2024	7:15:00	7.66	8.13	8.17
3/13/2024	7:30:00	7.71	8.36	8.15
3/13/2024	7:45:00	8.23	7.72	7.83
3/13/2024	8:00:00	8.33	9.23	8.51
3/13/2024	8:15:00	--	8.60	8.49
3/13/2024	8:30:00	--	9.18	9.13
3/13/2024	8:45:00	--	8.99	8.92
3/13/2024	9:00:00	--	9.01	8.70
3/13/2024	9:15:00	--	8.85	8.71
3/13/2024	9:30:00	--	8.78	8.60
3/13/2024	9:45:00	--	8.77	8.55
3/13/2024	10:00:00	--	8.63	8.54
3/13/2024	10:15:00	--	8.96	8.66
3/13/2024	10:30:00	--	8.97	8.47
3/13/2024	10:45:00	--	9.03	8.36
3/13/2024	11:00:00	--	8.99	8.33
3/13/2024	11:15:00	--	8.92	8.40
3/13/2024	11:30:00	--	8.79	8.21
3/13/2024	11:45:00	--	8.87	8.36

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/13/2024	12:00:00	--	8.91	8.10
3/13/2024	12:15:00	--	8.97	8.12
3/13/2024	12:30:00	--	8.99	8.14
3/13/2024	12:45:00	--	8.91	7.99
3/13/2024	13:00:00	--	9.04	8.19
3/13/2024	13:15:00	--	8.98	8.11
3/13/2024	13:30:00	--	8.76	7.99
3/13/2024	13:45:00	--	8.75	8.04
3/13/2024	14:00:00	--	9.02	7.85
3/13/2024	14:15:00	--	8.89	7.79
3/13/2024	14:30:00	--	9.12	7.77
3/13/2024	14:45:00	--	9.05	7.81
3/13/2024	15:00:00	--	8.80	7.63
3/13/2024	15:15:00	--	8.71	7.70
3/13/2024	15:30:00	--	8.62	7.46
3/13/2024	15:45:00	--	8.25	7.75
3/13/2024	16:00:00	--	8.90	7.16
3/13/2024	16:15:00	--	9.12	7.50
3/13/2024	16:30:00	--	8.77	8.17
3/13/2024	16:45:00	--	8.59	8.36
3/13/2024	17:00:00	--	7.82	7.59
3/13/2024	17:15:00	--	8.35	8.08
3/13/2024	17:30:00	--	8.28	7.64
3/13/2024	17:45:00	--	7.65	7.11
3/13/2024	18:00:00	--	7.83	7.19
3/13/2024	18:15:00	--	7.80	7.19
3/13/2024	18:30:00	--	7.89	7.49
3/13/2024	18:45:00	--	8.12	7.64
3/13/2024	19:00:00	--	8.03	8.00
3/13/2024	19:15:00	--	8.11	8.40
3/13/2024	19:30:00	--	8.10	8.30
3/13/2024	19:45:00	--	8.27	8.63
3/13/2024	20:00:00	--	8.19	8.15
3/13/2024	20:15:00	--	8.24	7.78
3/13/2024	20:30:00	--	7.92	8.76
3/13/2024	20:45:00	--	8.08	8.11
3/13/2024	21:00:00	--	8.80	8.16
3/13/2024	21:15:00	--	8.53	8.28
3/13/2024	21:30:00	--	8.40	8.35
3/13/2024	21:45:00	--	8.29	8.67
3/13/2024	22:00:00	--	7.95	8.61
3/13/2024	22:15:00	--	7.86	8.70
3/13/2024	22:30:00	--	7.83	8.45
3/13/2024	22:45:00	--	7.99	8.51
3/13/2024	23:00:00	--	7.99	8.03
3/13/2024	23:15:00	--	7.90	8.17
3/13/2024	23:30:00	--	8.18	8.19
3/13/2024	23:45:00	--	8.18	8.11

Note: Data has not been validated

**March 10 - March 16, 2024**

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/14/2024	0:00:00	--	8.31	8.04
3/14/2024	0:15:00	--	8.94	8.02
3/14/2024	0:30:00	--	8.25	8.29
3/14/2024	0:45:00	--	8.29	8.05
3/14/2024	1:00:00	--	7.83	8.14
3/14/2024	1:15:00	--	8.10	8.22
3/14/2024	1:30:00	--	8.21	8.28
3/14/2024	1:45:00	--	8.20	8.58
3/14/2024	2:00:00	--	8.37	8.13
3/14/2024	2:15:00	--	8.40	8.21
3/14/2024	2:30:00	--	8.58	8.32
3/14/2024	2:45:00	--	8.88	7.77
3/14/2024	3:00:00	--	9.00	7.92
3/14/2024	3:15:00	--	8.92	7.91
3/14/2024	3:30:00	--	8.90	7.72
3/14/2024	3:45:00	--	8.94	7.81
3/14/2024	4:00:00	--	8.85	7.65
3/14/2024	4:15:00	--	8.60	7.49
3/14/2024	4:30:00	--	8.21	7.36
3/14/2024	4:45:00	--	9.00	7.63
3/14/2024	5:00:00	--	9.27	7.57
3/14/2024	5:15:00	--	8.99	7.52
3/14/2024	5:30:00	--	9.33	7.70
3/14/2024	5:45:00	--	9.17	7.53
3/14/2024	6:00:00	--	8.98	7.46
3/14/2024	6:15:00	--	8.49	7.25
3/14/2024	6:30:00	--	8.87	7.17
3/14/2024	6:45:00	--	7.74	6.89
3/14/2024	7:00:00	--	7.42	7.03
3/14/2024	7:15:00	--	7.50	7.23
3/14/2024	7:30:00	--	7.68	7.27
3/14/2024	7:45:00	--	7.81	7.46
3/14/2024	8:00:00	--	8.13	7.84
3/14/2024	8:15:00	--	8.24	7.53
3/14/2024	8:30:00	--	8.12	7.60
3/14/2024	8:45:00	--	8.10	7.67
3/14/2024	9:00:00	--	7.76	7.74
3/14/2024	9:15:00	--	8.56	7.64
3/14/2024	9:30:00	--	8.25	7.77
3/14/2024	9:45:00	--	8.24	7.90
3/14/2024	10:00:00	--	7.97	7.88
3/14/2024	10:15:00	--	8.31	8.32
3/14/2024	10:30:00	--	8.27	8.31
3/14/2024	10:45:00	--	8.19	8.07
3/14/2024	11:00:00	--	8.34	8.06
3/14/2024	11:15:00	--	8.41	8.11
3/14/2024	11:30:00	--	8.31	8.19
3/14/2024	11:45:00	--	8.49	8.45

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/14/2024	12:00:00	--	8.63	8.18
3/14/2024	12:15:00	--	8.47	8.33
3/14/2024	12:30:00	--	8.45	7.99
3/14/2024	12:45:00	--	8.48	8.07
3/14/2024	13:00:00	--	8.43	8.07
3/14/2024	13:15:00	--	8.50	7.98
3/14/2024	13:30:00	--	8.75	8.21
3/14/2024	13:45:00	--	8.78	8.22
3/14/2024	14:00:00	--	8.80	8.22
3/14/2024	14:15:00	--	8.82	8.30
3/14/2024	14:30:00	--	8.64	8.26
3/14/2024	14:45:00	--	8.84	7.96
3/14/2024	15:00:00	--	8.99	7.85
3/14/2024	15:15:00	--	9.18	7.92
3/14/2024	15:30:00	--	9.17	7.93
3/14/2024	15:45:00	--	9.04	7.94
3/14/2024	16:00:00	--	8.88	7.90
3/14/2024	16:15:00	--	8.98	7.58
3/14/2024	16:30:00	--	9.33	7.79
3/14/2024	16:45:00	--	9.32	7.21
3/14/2024	17:00:00	--	9.39	7.87
3/14/2024	17:15:00	--	9.31	7.62
3/14/2024	17:30:00	--	9.56	7.37
3/14/2024	17:45:00	--	9.44	7.54
3/14/2024	18:00:00	--	8.78	7.66
3/14/2024	18:15:00	--	8.83	7.28
3/14/2024	18:30:00	--	7.97	7.49
3/14/2024	18:45:00	--	7.83	7.20
3/14/2024	19:00:00	--	7.76	7.30
3/14/2024	19:15:00	--	7.72	7.40
3/14/2024	19:30:00	--	7.88	7.49
3/14/2024	19:45:00	--	8.40	7.74
3/14/2024	20:00:00	--	8.39	8.22
3/14/2024	20:15:00	--	8.68	8.05
3/14/2024	20:30:00	--	8.37	8.50
3/14/2024	20:45:00	--	8.33	8.43
3/14/2024	21:00:00	--	8.32	7.75
3/14/2024	21:15:00	--	8.28	7.82
3/14/2024	21:30:00	--	8.17	7.84
3/14/2024	21:45:00	--	8.10	7.95
3/14/2024	22:00:00	--	8.32	7.82
3/14/2024	22:15:00	--	8.08	8.31
3/14/2024	22:30:00	--	8.23	8.42
3/14/2024	22:45:00	--	8.31	8.34
3/14/2024	23:00:00	--	7.91	8.21
3/14/2024	23:15:00	--	7.63	8.45
3/14/2024	23:30:00	--	7.93	8.02
3/14/2024	23:45:00	--	8.16	8.40

Note: Data has not been validated

**March 10 - March 16, 2024**

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/15/2024	0:00:00	--	8.00	8.39
3/15/2024	0:15:00	--	8.35	8.91
3/15/2024	0:30:00	--	7.99	8.71
3/15/2024	0:45:00	--	8.67	8.33
3/15/2024	1:00:00	--	8.68	8.26
3/15/2024	1:15:00	--	8.35	8.52
3/15/2024	1:30:00	--	8.64	8.12
3/15/2024	1:45:00	--	8.96	8.18
3/15/2024	2:00:00	--	8.69	8.10
3/15/2024	2:15:00	--	8.41	8.59
3/15/2024	2:30:00	--	8.28	8.47
3/15/2024	2:45:00	--	8.44	8.27
3/15/2024	3:00:00	--	8.58	8.10
3/15/2024	3:15:00	--	8.46	7.94
3/15/2024	3:30:00	--	8.12	7.82
3/15/2024	3:45:00	--	8.12	7.78
3/15/2024	4:00:00	--	8.70	7.89
3/15/2024	4:15:00	--	8.95	7.84
3/15/2024	4:30:00	--	9.29	8.46
3/15/2024	4:45:00	--	8.82	7.43
3/15/2024	5:00:00	--	8.69	7.47
3/15/2024	5:15:00	--	9.52	7.52
3/15/2024	5:30:00	--	8.90	7.25
3/15/2024	5:45:00	--	8.90	7.01
3/15/2024	6:00:00	--	8.72	7.11
3/15/2024	6:15:00	--	8.37	7.24
3/15/2024	6:30:00	--	8.50	7.01
3/15/2024	6:45:00	--	8.25	6.93
3/15/2024	7:00:00	--	7.87	7.29
3/15/2024	7:15:00	--	7.84	7.33
3/15/2024	7:30:00	--	7.89	6.99
3/15/2024	7:45:00	--	7.57	7.20
3/15/2024	8:00:00	--	7.53	7.16
3/15/2024	8:15:00	--	7.58	7.23
3/15/2024	8:30:00	--	7.89	7.52
3/15/2024	8:45:00	--	8.29	7.72
3/15/2024	9:00:00	--	8.61	8.35
3/15/2024	9:15:00	--	8.70	8.01
3/15/2024	9:30:00	--	8.27	8.04
3/15/2024	9:45:00	--	8.65	8.35
3/15/2024	10:00:00	--	8.79	8.53
3/15/2024	10:15:00	--	8.79	8.39
3/15/2024	10:30:00	--	9.30	8.76
3/15/2024	10:45:00	--	9.01	8.90
3/15/2024	11:00:00	--	9.73	8.77
3/15/2024	11:15:00	--	9.25	9.00
3/15/2024	11:30:00	--	9.19	8.84
3/15/2024	11:45:00	--	9.06	8.95

Note: Data has not been validated

**March 10 - March 16, 2024**

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/15/2024	12:00:00	--	8.99	8.84
3/15/2024	12:15:00	--	9.52	9.06
3/15/2024	12:30:00	--	9.48	8.92
3/15/2024	12:45:00	--	9.41	8.60
3/15/2024	13:00:00	--	9.16	8.72
3/15/2024	13:15:00	--	9.25	8.57
3/15/2024	13:30:00	--	9.01	8.87
3/15/2024	13:45:00	--	8.73	8.77
3/15/2024	14:00:00	--	9.09	8.86
3/15/2024	14:15:00	--	9.19	8.94
3/15/2024	14:30:00	--	8.62	8.99
3/15/2024	14:45:00	--	9.08	8.55
3/15/2024	15:00:00	--	9.20	8.52
3/15/2024	15:15:00	--	8.88	8.44
3/15/2024	15:30:00	--	9.10	8.38
3/15/2024	15:45:00	--	9.18	8.40
3/15/2024	16:00:00	--	8.94	8.07
3/15/2024	16:15:00	--	8.98	8.05
3/15/2024	16:30:00	--	8.78	7.82
3/15/2024	16:45:00	--	8.20	8.00
3/15/2024	17:00:00	--	8.77	7.57
3/15/2024	17:15:00	--	8.51	7.71
3/15/2024	17:30:00	--	8.48	7.57
3/15/2024	17:45:00	--	8.66	7.42
3/15/2024	18:00:00	--	8.57	7.19
3/15/2024	18:15:00	--	8.30	7.27
3/15/2024	18:30:00	--	8.23	6.97
3/15/2024	18:45:00	--	8.08	7.08
3/15/2024	19:00:00	--	8.08	6.66
3/15/2024	19:15:00	--	8.15	7.33
3/15/2024	19:30:00	--	7.88	7.50
3/15/2024	19:45:00	--	7.98	7.45
3/15/2024	20:00:00	--	8.12	7.52
3/15/2024	20:15:00	--	8.09	7.62
3/15/2024	20:30:00	--	8.03	7.68
3/15/2024	20:45:00	--	8.00	7.64
3/15/2024	21:00:00	--	8.20	7.90
3/15/2024	21:15:00	--	8.06	7.99
3/15/2024	21:30:00	--	7.94	7.92
3/15/2024	21:45:00	--	8.10	7.85
3/15/2024	22:00:00	--	8.13	8.38
3/15/2024	22:15:00	--	8.28	8.06
3/15/2024	22:30:00	--	8.47	7.96
3/15/2024	22:45:00	--	8.34	7.86
3/15/2024	23:00:00	--	8.24	7.89
3/15/2024	23:15:00	--	8.34	8.00
3/15/2024	23:30:00	--	8.31	8.12
3/15/2024	23:45:00	--	8.00	7.97

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/16/2024	0:00:00	--	7.94	8.01
3/16/2024	0:15:00	--	7.89	8.08
3/16/2024	0:30:00	--	7.59	7.93
3/16/2024	0:45:00	--	8.04	7.97
3/16/2024	1:00:00	--	7.88	8.07
3/16/2024	1:15:00	--	7.48	7.91
3/16/2024	1:30:00	--	7.91	7.94
3/16/2024	1:45:00	--	7.81	8.64
3/16/2024	2:00:00	--	7.96	8.34
3/16/2024	2:15:00	--	8.01	7.98
3/16/2024	2:30:00	--	7.79	8.00
3/16/2024	2:45:00	--	7.87	8.54
3/16/2024	3:00:00	--	7.81	8.27
3/16/2024	3:15:00	--	8.38	8.23
3/16/2024	3:30:00	--	8.28	8.36
3/16/2024	3:45:00	--	8.14	8.16
3/16/2024	4:00:00	--	8.07	8.17
3/16/2024	4:15:00	--	7.85	7.90
3/16/2024	4:30:00	--	7.76	7.53
3/16/2024	4:45:00	--	8.12	8.02
3/16/2024	5:00:00	--	8.37	7.86
3/16/2024	5:15:00	--	8.51	7.52
3/16/2024	5:30:00	--	7.87	7.55
3/16/2024	5:45:00	--	8.04	7.55
3/16/2024	6:00:00	--	8.31	7.45
3/16/2024	6:15:00	--	8.19	7.37
3/16/2024	6:30:00	--	8.62	7.71
3/16/2024	6:45:00	--	8.40	8.02
3/16/2024	7:00:00	--	7.94	7.69
3/16/2024	7:15:00	--	8.37	7.50
3/16/2024	7:30:00	--	7.95	7.94
3/16/2024	7:45:00	--	7.98	7.25
3/16/2024	8:00:00	--	7.88	7.11
3/16/2024	8:15:00	--	7.96	7.56
3/16/2024	8:30:00	--	7.86	7.39
3/16/2024	8:45:00	--	7.91	7.72
3/16/2024	9:00:00	--	7.77	7.41
3/16/2024	9:15:00	--	7.93	7.39
3/16/2024	9:30:00	--	8.05	7.66
3/16/2024	9:45:00	--	8.23	7.84
3/16/2024	10:00:00	--	8.07	7.88
3/16/2024	10:15:00	--	8.37	7.98
3/16/2024	10:30:00	--	8.29	8.07
3/16/2024	10:45:00	--	8.57	8.09
3/16/2024	11:00:00	--	8.78	8.10
3/16/2024	11:15:00	--	8.63	7.92
3/16/2024	11:30:00	--	8.66	7.85
3/16/2024	11:45:00	--	8.74	7.90

Note: Data has not been validated

### March 10 - March 16, 2024

Date	Time	DO (mg/L)		
		Ambient	W TB4	S 3SB
3/16/2024	12:00:00	--	8.80	8.09
3/16/2024	12:15:00	--	8.87	8.09
3/16/2024	12:30:00	--	8.93	8.49
3/16/2024	12:45:00	--	9.27	8.63
3/16/2024	13:00:00	--	9.73	8.86
3/16/2024	13:15:00	--	9.87	8.95
3/16/2024	13:30:00	--	10.24	8.91
3/16/2024	13:45:00	--	10.31	8.68
3/16/2024	14:00:00	--	10.32	8.69
3/16/2024	14:15:00	--	10.08	9.45
3/16/2024	14:30:00	--	10.17	9.49
3/16/2024	14:45:00	--	9.70	9.55
3/16/2024	15:00:00	--	9.88	9.45
3/16/2024	15:15:00	--	9.78	8.92
3/16/2024	15:30:00	--	9.78	9.34
3/16/2024	15:45:00	--	9.02	8.80
3/16/2024	16:00:00	--	9.26	9.13
3/16/2024	16:15:00	--	9.50	8.67
3/16/2024	16:30:00	--	8.96	8.09
3/16/2024	16:45:00	--	8.83	8.20
3/16/2024	17:00:00	--	8.70	8.55
3/16/2024	17:15:00	--	8.48	8.22
3/16/2024	17:30:00	--	8.43	7.79
3/16/2024	17:45:00	--	8.33	7.67
3/16/2024	18:00:00	--	8.27	6.24
3/16/2024	18:15:00	--	8.28	7.16
3/16/2024	18:30:00	--	7.96	6.75
3/16/2024	18:45:00	--	7.80	6.97
3/16/2024	19:00:00	--	7.70	5.81
3/16/2024	19:15:00	--	7.81	6.10
3/16/2024	19:30:00	--	7.78	6.19
3/16/2024	19:45:00	--	7.52	6.42
3/16/2024	20:00:00	--	7.34	6.62
3/16/2024	20:15:00	--	7.61	6.78
3/16/2024	20:30:00	--	7.63	6.62
3/16/2024	20:45:00	--	6.93	6.81
3/16/2024	21:00:00	--	7.57	6.99
3/16/2024	21:15:00	--	7.91	7.28
3/16/2024	21:30:00	--	8.45	7.58
3/16/2024	21:45:00	--	8.66	8.27
3/16/2024	22:00:00	--	8.79	8.00
3/16/2024	22:15:00	--	8.54	8.21
3/16/2024	22:30:00	--	9.06	8.04
3/16/2024	22:45:00	--	9.04	8.30
3/16/2024	23:00:00	--	9.23	8.59
3/16/2024	23:15:00	--	9.40	8.80
3/16/2024	23:30:00	--	9.50	9.08
3/16/2024	23:45:00	--	9.51	9.26

Note: Data has not been validated