

**WEEKLY PROGRESS REPORT – TRC SOLUTIONS**

**Gowanus Canal Turning Basin 4 Dredging and Capping Pilot Study  
Brooklyn, New York**

**Project number: 283126**

**Period: December 10 to 14, 2018**

**Date of Report: December 21, 2018**

**Rev: 0**

**Prepared For: Gowanus Environmental Remediation Trust**



**On-Site Activities Conducted During Week:**

*Sevenson Environmental Services (SES)*

TB4 Demobilization Activities

- Complete removal of piping associated with hydraulic capping.

Citizens Site Demobilization Activities

- Repair asphalt pad.
- Continue decontaminating and demobilizing equipment and materials.

*Quality Assurance and Control – Geosyntec*

- Demobilize turbidity monitors from Turning Basin 4.

*Community Air Monitoring Program – TRC CAMP*

- Operated and maintained two (2) air monitoring stations at the upland staging area and five (5) monitoring station at the 4<sup>th</sup> Street Turning Basin Area. Demobilize monitoring stations from Citizens Site on 12/13/18.
- No exceedances of particulate matter of 10 microns in diameter or smaller (PM<sub>10</sub>) or total volatile organic compounds (TVOC) of the action level of 150 micrograms per cubic meter or 1,000 parts per billion, respectively.
- Maximum weekly measurements of PM<sub>10</sub> in µg/m<sup>3</sup>
  - Station 1 – 34 µg/m<sup>3</sup> recorded on 12/12/18
  - Station 2 – 84 µg/m<sup>3</sup> recorded on 12/11/18
- Maximum weekly measurements of TVOC in ppb
  - Station 1 – 108 ppb recorded on 12/12/18
  - Station 2 – <1 ppb recorded throughout the week
- All real-time readings of formaldehyde, hydrogen sulfide, or ammonia less than instrument reporting limit.

*Noise and Vibration Monitoring – Wilson Ihrig*

- Demobilize noise monitors from Turning Basin 4.

*Cultural Natural Resource Monitoring – Archeology and Historic Resource Services (AHRS)*

- No activities during week.

**Two-Week Look Ahead:**

Sevenson: Complete punch list activities associated with subcontractors.

Geosyntec – Perform construction quality assurance responsibilities.

AHRS – Finalize final report for EPA review.

**Key Milestones**

- Complete punch list activities not associated with subcontractors on 12/12/18.

Attachments:

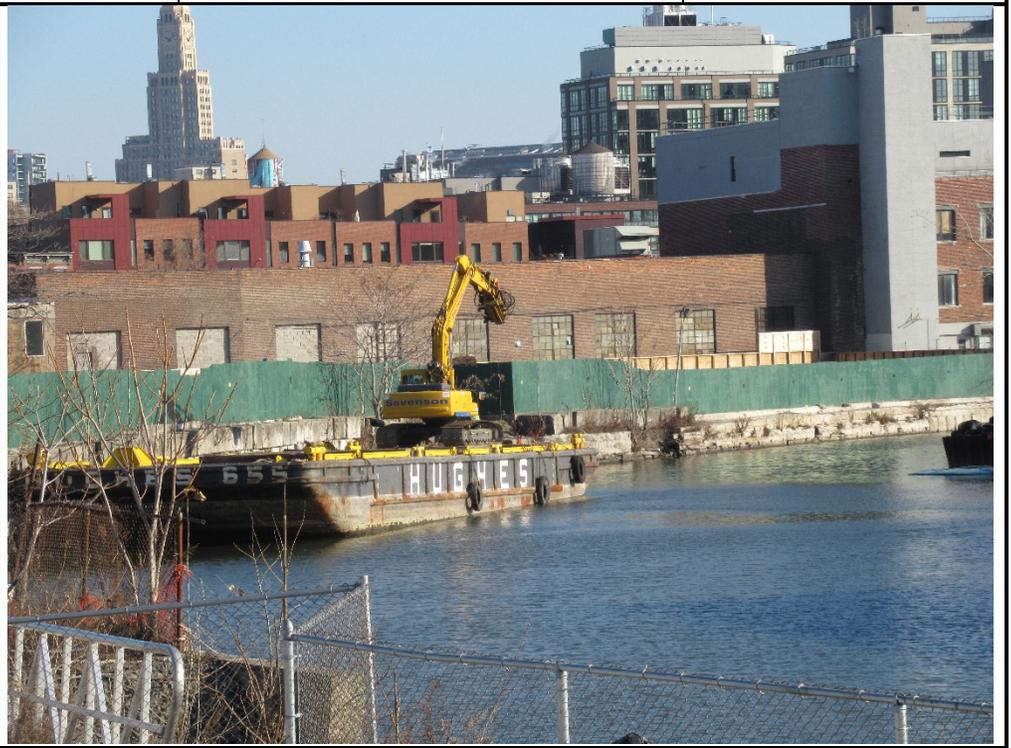
1. Geosyntec In-Canal Water Quality Monitoring Weekly Data Summary (no activities during week)
2. TRC Weekly CAMP Report
3. Wilson Ihrig Weekly Noise and Vibration Monitoring Report (no activities during week)
4. AHRS Weekly Report (no activities during week)
5. Water Treatment System Monitoring Analytical Laboratory Data (no activities during week)
6. Cumulative Dredged Material Chart (no activities during week)



<b>Client Name:</b> Gowanus ERT	<b>Site Location:</b> TB-4 Pilot Study	<b>Project No.:</b> 283126.0000.0001
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<b>Photo No.</b> 001	<b>Date</b> 12-10-2018
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**Description**  
Removal of pipe crossing used for hydraulic capping.



<b>Photo No.</b> 002	<b>Date</b> 12-10-2018
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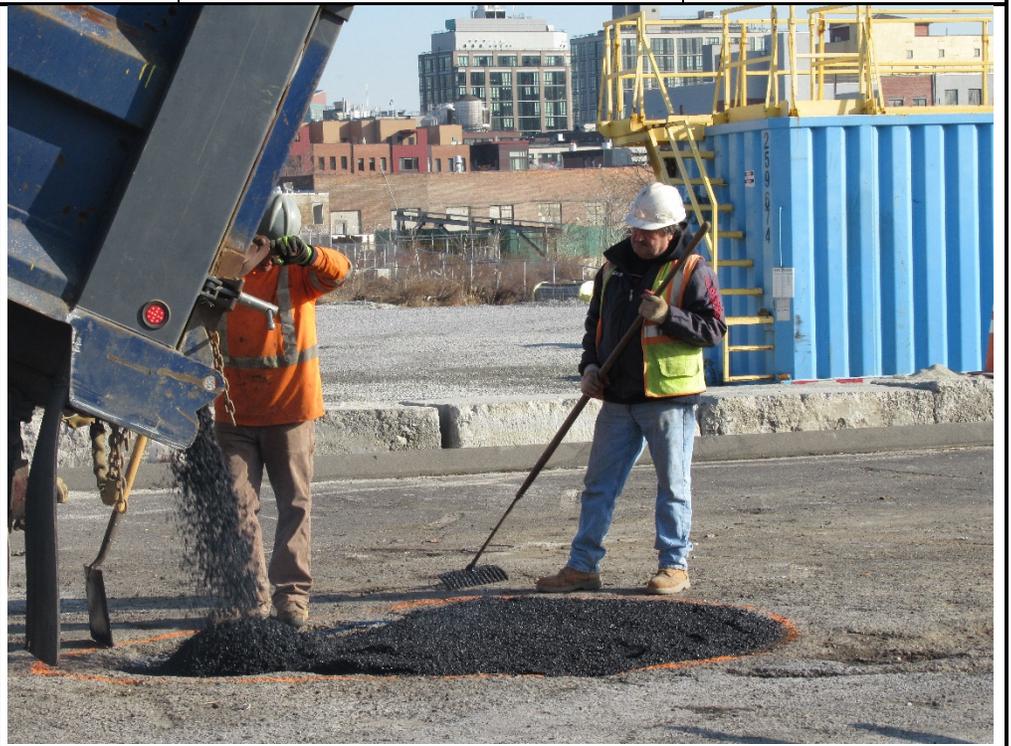
**Description**  
Removal of pipe for crossing used for hydraulic capping.



<b>Client Name:</b> Gowanus ERT	<b>Site Location:</b> TB-4 Pilot Study	<b>Project No.:</b> 283126.0000.0001
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<b>Photo No.</b> 003	<b>Date</b> 12-11-2018
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**Description**  
Raking asphalt prior to compacting with vibratory roller.



<b>Photo No.</b> 004	<b>Date</b> 12-11-2018
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**Description**  
Compacting asphalt and placing binder.



<b>Client Name:</b> Gowanus ERT	<b>Site Location:</b> TB-4 Pilot Study	<b>Project No.:</b> 283126.0000.0001
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<b>Photo No.</b> 005	<b>Date</b> 12-12-2018
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**Description**  
Relocating Geosyntec dock to asphalt pad.



<b>Photo No.</b> 006	<b>Date</b> 12-13-2018
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**Description**  
Demobilization of timber mats and air bridge platform.



**GEOSYNTEC IN-CANAL WATER QUALITY MONITORING WEEKLY DATA SUMMARY  
(NO ACTIVITIES DURING WEEK)**



**TRC WEEKLY COMMUNITY AIR MONITORING PROJECT REPORT**





**Gowanus Canal Superfund Site  
TB-4 Dredging and Capping Pilot Study  
Brooklyn, New York  
Weekly Report  
(TRC Project No.274286-0000-00000)**

**Community Air Monitoring Project  
62<sup>nd</sup> Weekly Monitoring Period  
Summary Report:**

December 10<sup>th</sup>, through December 12<sup>th</sup>, 2018

**Report Contents**

- Executive Summary
- Daily Data Summary Report – PM<sub>10</sub>/TVOC
  - Daily Meteorological Summary Report
    - Periodic Monitoring Results

# **Gowanus Canal Superfund Site TB-4 Dredging and Capping Pilot Study Brooklyn, New York**

## **Executive Summary – Week 62 Monitoring Period December 10<sup>th</sup> through December 12<sup>th</sup>, 2018**

The following report summarizes site air monitoring activities for the Week 62 monitoring period from December 10<sup>th</sup> through December 12<sup>th</sup>, 2018. The start and stop times associated with each daily monitoring period are listed on the respective daily reports.

TRC continued to operate two (2) air monitoring stations on the Citizen Property or Staging Area using the equipment specified previously in the *Gowanus Canal TB-4 Dredging and Pilot Study Executive Summary – Background Monitoring Period Report*. During the Week 62 monitoring period there were no PM<sub>10</sub> or TVOC exceedances of the action level of 150 ug/m<sup>3</sup> or 1,000 ppb respectively as defined in the *Community Air Monitoring Plan for the Gowanus Canal TB-4 Dredging and Pilot Study Project Brooklyn, NY, August 2017*.

Figure 1 depicts Total Volatile Organics (TVOC) daily averages and maximums. Figure 2 depicts particulate monitoring (PM<sub>10</sub>) daily averages and maximums.

Additional monitoring for hydrogen sulfide, ammonia, and formaldehyde took place at stations 1 and 2 throughout the Week 62 monitoring period daily. The results of these measurements are shown in Table 1.

During the Week 62 monitoring period of December 10<sup>th</sup> through December 12<sup>th</sup>, 2018 TRC conducted no Volatile Organic Compounds (USEPA Method TO-15) sampling at any stations.

Site activities which were conducted at the Citizen Property during December 10<sup>th</sup> through December 12<sup>th</sup>, 2018 included the following:

- General vehicular traffic site-wide throughout the monitoring period
- Completed decon and demobilization of all equipment off site
- Patch asphalt on decon pad

**Gowanus Canal Superfund Site**  
**TB-4 Dredging and Capping Pilot Study**  
**Brooklyn, New York**  
Daily Station Report – TVOC/PM<sub>10</sub>  
(TRC Project No.274286-0000-00000)  
12/10/2018 06:30 AM - 12/10/2018 23:45 PM

**Station 1 (Citizen Property near Construction Trailers)**

TVOC			PM <sub>10</sub>		
Max.	66	ppb	Max.	13	ug/m <sup>3</sup>
Avg.	25	ppb	Avg.	8	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

**Station 2 (Citizen Property near Pad Area)**

TVOC			PM <sub>10</sub>		
Max.	<1	ppb	Max.	20	ug/m <sup>3</sup>
Avg.	<1	ppb	Avg.	8	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

TVOC – Total Volatile Organic Compounds

PM<sub>10</sub> – Particulates as PM<sub>10</sub>

Max. – Maximum daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

Avg. – Daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

Exc. – Total # of averages which exceed the action level (≥1 ppm - TVOC / ≥150 ug/m<sup>3</sup> - PM<sub>10</sub>)

**Gowanus Canal Superfund Site**  
**TB-4 Dredging and Capping Pilot Study**  
**Brooklyn, New York**  
Daily Station Report – TVOC/PM<sub>10</sub>  
(TRC Project No.274286-0000-00000)  
12/11/2018 00:00 AM - 12/11/2018 23:45 PM

**Station 1 (Citizen Property near Construction Trailers)**

TVOC			PM <sub>10</sub>		
Max.	100	ppb	Max.	33	ug/m <sup>3</sup>
Avg.	45	ppb	Avg.	14	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

**Station 2 (Citizen Property near Pad Area)**

TVOC			PM <sub>10</sub>		
Max.	<1	ppb	Max.	84	ug/m <sup>3</sup>
Avg.	<1	ppb	Avg.	16	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

TVOC – Total Volatile Organic Compounds

PM<sub>10</sub> – Particulates as PM<sub>10</sub>

Max. – Maximum daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

Avg. – Daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

Exc. – Total # of averages which exceed the action level (≥1 ppm - TVOC / ≥150 ug/m<sup>3</sup> - PM<sub>10</sub>)

**Gowanus Canal Superfund Site  
 TB-4 Dredging and Capping Pilot Study  
 Brooklyn, New York  
 Daily Station Report – TVOC/PM<sub>10</sub>  
 (TRC Project No.274286-0000-00000)  
 12/12/2018 00:00 AM - 12/12/2018 13:00 PM**

**Station 1 (Citizen Property near Construction Trailers)**

TVOC			PM <sub>10</sub>		
Max.	108	ppb	Max.	34	ug/m <sup>3</sup>
Avg.	57	ppb	Avg.	26	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

**Station 2 (Citizen Property near Pad Area)**

TVOC			PM <sub>10</sub>		
Max.	<1	ppb	Max.	34	ug/m <sup>3</sup>
Avg.	<1	ppb	Avg.	24	ug/m <sup>3</sup>
Exc.	0	total	Exc.	0	Total

TVOC – Total Volatile Organic Compounds

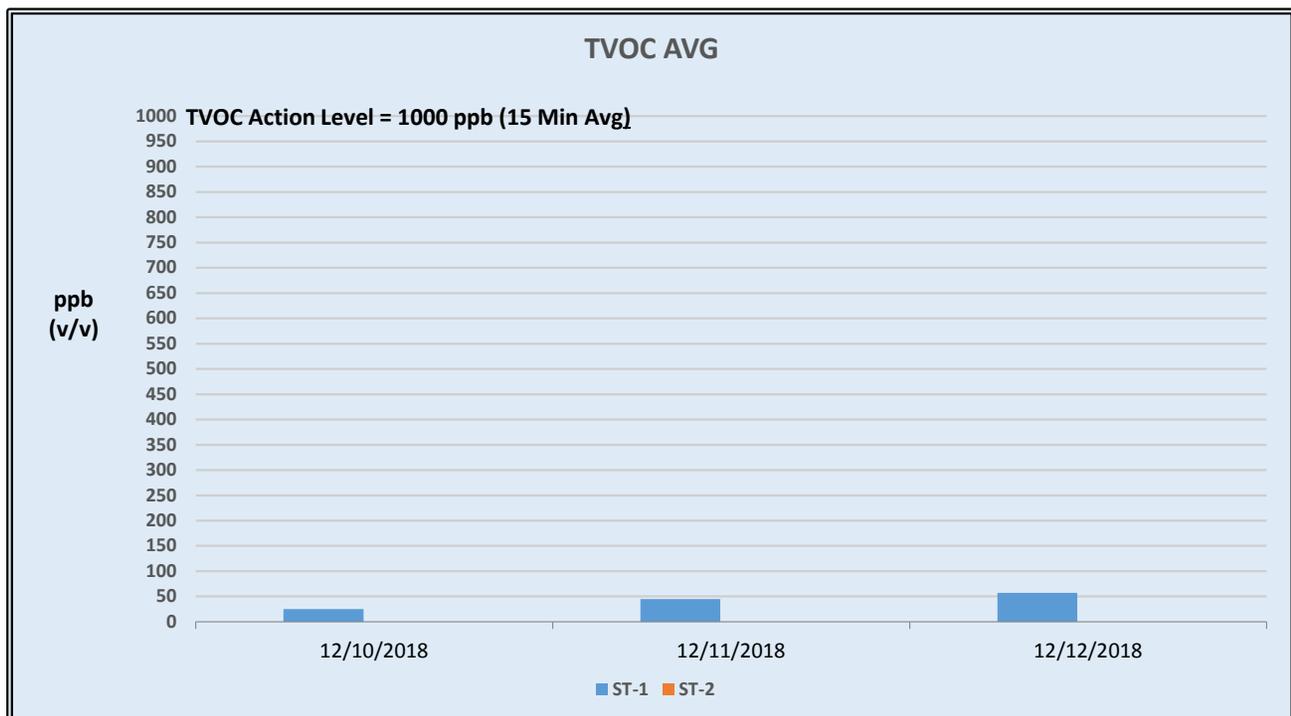
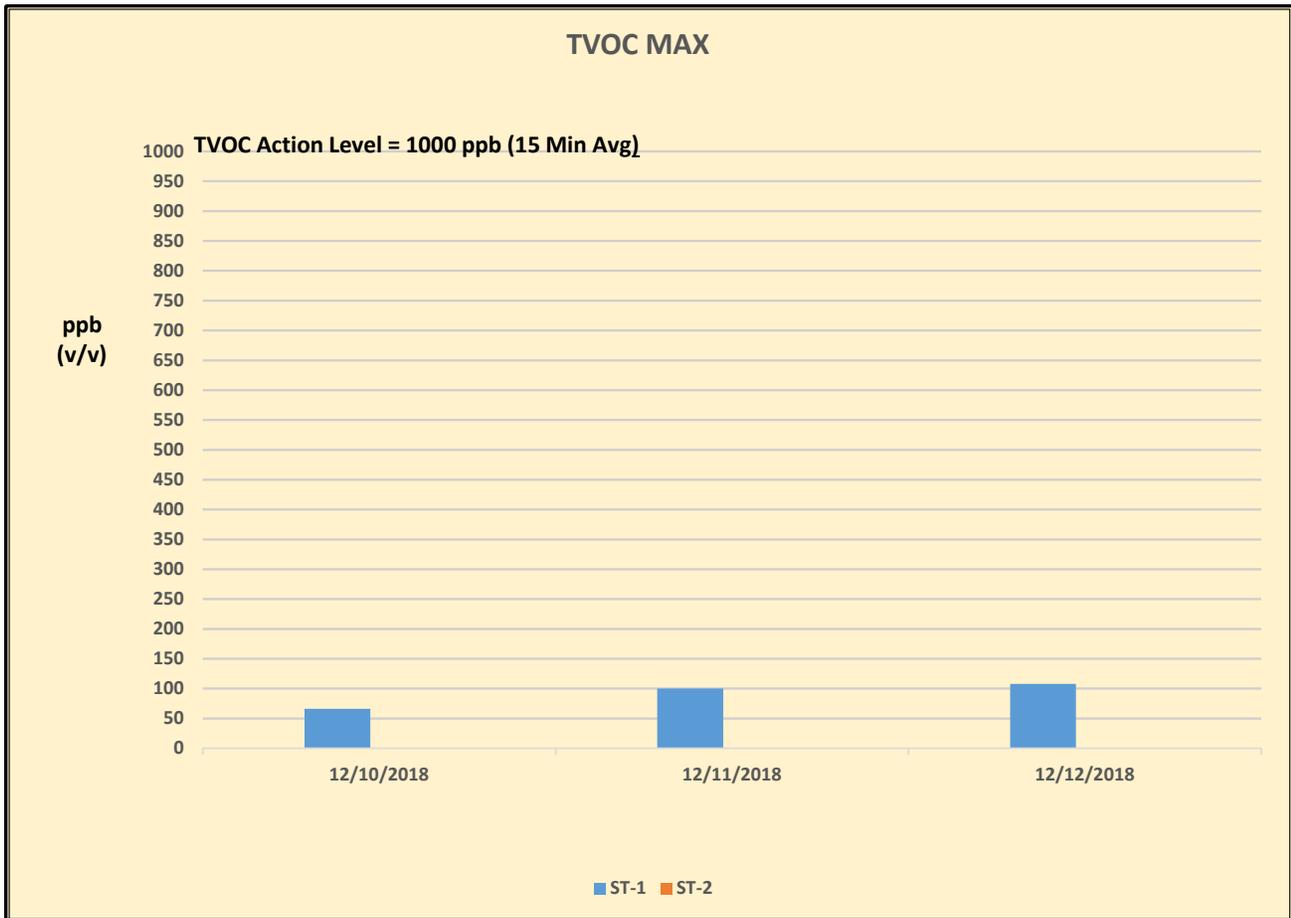
PM<sub>10</sub> – Particulates as PM<sub>10</sub>

Max. – Maximum daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

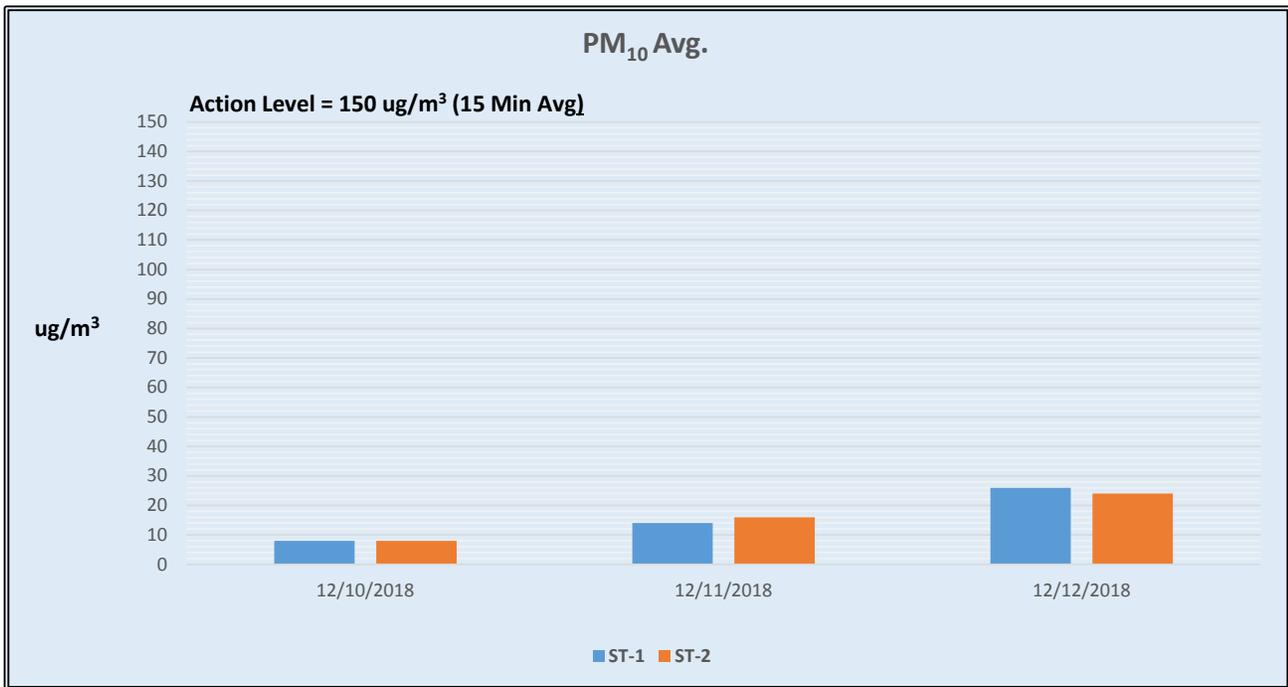
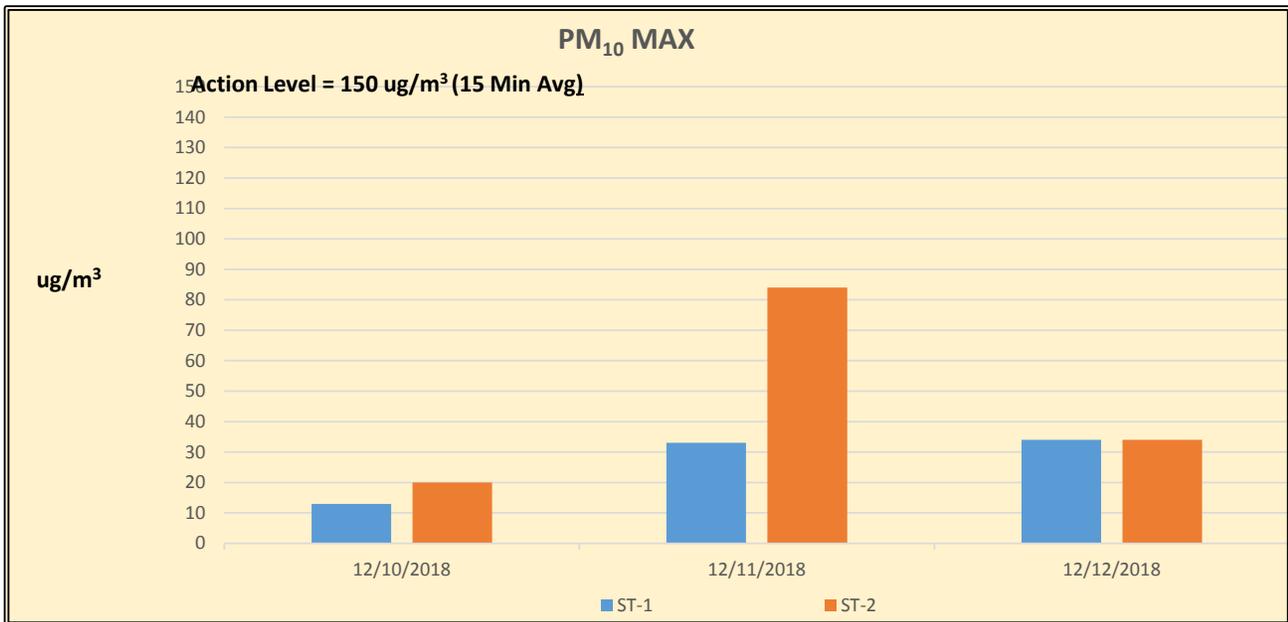
Avg. – Daily average (15 min. avg. – TVOC / 15 min. avg. – PM<sub>10</sub>)

Exc. – Total # of averages which exceed the action level (≥1 ppm - TVOC / ≥150 ug/m<sup>3</sup> - PM<sub>10</sub>)

**Figure 1**  
**Gowanus Canal Superfund Site -TB4 Dredging and Capping Pilot Program**  
**TVOC Monitoring Data - Week 62**



**Figure 2**  
**Gowanus Canal Superfund Site - TB4 Dredging and Capping Pilot Program**  
**PM<sub>10</sub> Monitoring Data - Week 62**



**Table 1**

**Week 62**

**Summary of Additional Periodic (Daily) Monitoring Data**

December 10 <sup>th</sup> , 2018				
Station Id	Time	Formaldehyde (CHO) (ppb)*	Hydrogen Sulfide (H <sub>2</sub> S) (ppb)*	Ammonia (NH <sub>3</sub> ) (ppm)**
ST-1	8:00	<50	<3	<1.0
	15:30	<50	<3	<1.0
ST-2	8:20	<50	<3	<1.0
	15:40	<50	<3	<1.0
December 11 <sup>th</sup> , 2018				
Station Id	Time	Formaldehyde (CHO) (ppb)*	Hydrogen Sulfide (H <sub>2</sub> S) (ppb)*	Ammonia (NH <sub>3</sub> ) (ppm)**
ST-1	7:30	<50	<3	<1.0
	14:30	<50	<3	<1.0
ST-2	7:40	<50	<3	<1.0
	15:00	<50	<3	<1.0
December 12 <sup>th</sup> , 2018				
Station Id	Time	Formaldehyde (CHO) (ppb)*	Hydrogen Sulfide (H <sub>2</sub> S) (ppb)*	Ammonia (NH <sub>3</sub> ) (ppm)**
ST-1	8:15	<50	<3	<1.0
ST-2	8:20	<50	<3	<1.0

**\*(ppb) Indicates results reported in parts per billion**

**\*\* (ppm) Indicates results reported in parts per million**



# Gowanus Canal Superfund Site TB-4 Dredging and Capping Pilot Study Brooklyn, New York

## Meteorological Summary

December 10<sup>th</sup> through December 12<sup>th</sup>, 2018

December 10 <sup>th</sup> , 2018 *		
Wind Direction (°)	Wind Speed (mph)	Temperature (°F)
E	5.3	30.5

December 11 <sup>th</sup> , 2018 **		
Wind Direction (°)	Wind Speed (mph)	Temperature (°F)
SW	6.0	32.5

December 12 <sup>th</sup> , 2018 ***		
Wind Direction (°)	Wind Speed (mph)	Temperature (°F)
WSW	5.7	32.4

\* Monday's meteorological data represents an average for the time period of 06:30 to 23:45.

\*\* Tuesday's meteorological data represents averages for the time period of 00:00 to 23:45.

\*\*\* Wednesday's meteorological data represents an average for the time period of 00:00 to 13:00.

**WILSON IHRIG WEEKLY NOISE AND VIBRATION MONITORING REPORT  
(NO ACTIVITIES DURING WEEK)**



**AHRS WEEKLY REPORT**  
**(NO ACTIVITIES DURING WEEK)**



**WATER TREATMENT SYSTEM MONITORING LABORATORY ANALYTICAL DATA  
(NO ACTIVITIES DURING WEEK)**



**CUMULATIVE DREDGED MATERIAL CHART  
(NO ACTIVITIES DURING WEEK)**

