LANGAN SITE OBSERVATION REPORT – Day 190

CLIENT:	Gowanus Canal LLC, GowCan Owner, LLC, and Bayside Gowanus Owner, L.L.C.	**DATE:**	Thursday, May 4, 2023
PROJECT No.:	170295301	**WEATHER:**	Rain/partly cloudy, 51-56 °F Wind: NE @ 1 – 3 mph
PROJECT:	Gowanus Canal Northside	**TIME:**	07:00 – 17:30
LOCATION:	Brooklyn, New York	**BCP SITE ID:**	C224080

EQUIPMENT:
Komatsu PC 490 Excavator
Komatsu PC 240 Excavator
Komatsu PC 78 US Excavator
Komatsu Wheel Loader
Komatsu PC 490 Excavator

PRESENT AT SITE:
Langan: Lauren Roper (Environmental), Ahmed Mahmoud (Geotechnical)
Urban Atelier Group (UAG): Seth Anderson
Kingdom Associates, Inc. (Kingdom): George Minchala
WSP on behalf of New York State Department of Environmental Conservation (NYSDEC): Chuck Porreca

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was on-site to document implementation of the New York State Department of Environmental Conservation (NYSDEC)-approved March 24, 2022 Remedial Action Work Plan (RAWP) for Brownfield Cleanup Program (BCP) Site No. C224080. Site Map 1 presents the Society Brooklyn and Sackett Place developments, which together comprise the BCP site.

Site Activities

- Kingdom excavated an about 35-foot-long by 5-foot-wide area and an about 25-foot-long by 5-foot-wide area to about 20 feet below grade surface (bgs) for the future cellar in the northern part of Society Brooklyn. Excavated material consisted of historic fill, soil, and construction and demotion (C&D) debris.
    - Excavated historic fill and soil was screened for odor, staining, and organic vapor using a photoionization detector (PID). Staining and a maximum PID reading of 1.6 parts per million (ppm) were observed.
    - The excavated historic fill and soil was stockpiled in the eastern part of Society Brooklyn on top of and covered with polyethylene sheeting pending future off-site disposal.
    - The excavated C&D debris was stockpiled in the eastern part of Society Brooklyn.
- Kingdom placed concrete for a mud slab in the northern and northeastern parts of Society Brooklyn.
- Kingdom backfilled an about 12-foot-long by 7-foot-wide area with previously imported ASTM #5 virgin quarry stone to install foundation elements in the northern part of Society Brooklyn.
- Kingdom applied Petrofix (a finely ground powdered activated carbon from Regenesis), water, and an electron acceptor blend to the base of Remedial Excavation Area No. 1 to treat petroleum impacts in soil and groundwater. About 44 gallons of reagent were applied to the base of the excavation.
    - An about 12-foot-long by 7-foot-wide ejector pit within Remedial Excavation Area No. 1 was not treated with PetroFix due to groundwater within the ejector pit requiring constant dewatering. Kingdom will apply the PetroFix volume intended for the ejector pit area (about 10 gallons of reagent) to the surrounding area.

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper **Langan, D.P.C.**

Import and Export Tracking

- No material was imported to the site.
- No material was exported from the site.

Soil/Fill Export Summary			
Facility	**Exported**	**Today**	**Total**
Bayshore Soil Management Keasbey, NJ Non-Hazardous Soil/Fill	**No. Loads**	0	**739**
	Quantity (CY)	0	**14,780**
Bayshore Soil Management Keasbey, NJ Non-Hazardous MGP-Impacted Soil/Fill	**No. Loads**	0	**79**
	Quantity (CY)	0	**1,580**
Phase III Environmental Palmerton, PA Non-Hazardous Soil/Fill	**No. Loads**	0	**67**
	Quantity (CY)	0	**1,340**

Material Import Summary				
Facility	**NYSDEC Approved Quantity (CY)**	**Imported**	**Today**	**Total**
Stavola Construction Materials, Inc Bridgewater, NJ 2.5-inch Stone	1,000	**No. Loads**	0	**14**
		Quantity (CY)	0	**280**
87 19th Avenue Astoria, NY 2.5-inch Stone	2,000	**No. Loads**	0	**31**
		Quantity (CY)	0	**650**
Impact Environmental Jersey City, NJ 0.5-inch Crushed Stone	5,000	**No. Loads**	0	**183**
		Quantity (CY)	0	**3,660**
Impact Environmental Lyndhurst, NJ 0.5-inch Crushed Stone	6,000	**No. Loads**	0	**48**
		Quantity (CY)	0	**960**
Impact Environmental Lyndhurst, NJ 0.75-inch Crushed Stone	4,000	**No. Loads**	0	**29**
		Quantity (CY)	0	**580**
Tilcon New York Inc. Wharton, NJ ASTM #5	3,500	**No. Loads**	0	**80**
		Quantity (CY)	0	**1,600**

Sampling

- Langan collected a sample of treated groundwater from the dewatering system effluent (DEW_19_050423). The sample will be analyzed for parameters listed in the State Pollution Discharge Elimination System (SPDES) Permit Equivalent by York Analytical Laboratories in Stratford, CT.

Community Air Monitoring

- Langan conducted real-time air monitoring for volatile organic compounds (VOC) and particulate matter smaller than 10 microns in diameter (PM10) at the upwind and downwind perimeters of the work area during ground-intrusive work. PM10 and VOC concentrations did not exceed the action levels established by the community air monitoring plan (CAMP).
    - Due to persistent rain, community air monitoring was not implemented until 13:37. No dust or odor were apparent on-site.

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper **Langan, D.P.C.**

- Due to equipment malfunction, PM10 data was not recorded between 13:37 and 15:17 at the downwind station located in the southern part of Society Brooklyn. No dust or odor was apparent on-site during this time.

Anticipated Activities

- Kingdom will continue excavation for the north cellar at Society Brooklyn.
- Kingdom will continue to apply Petrofix in a portion of the north cellar at Society Brooklyn.
- Kingdom will continue installing components of the sub-membrane depressurization (SMD) systems.

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper
			Langan, D.P.C.

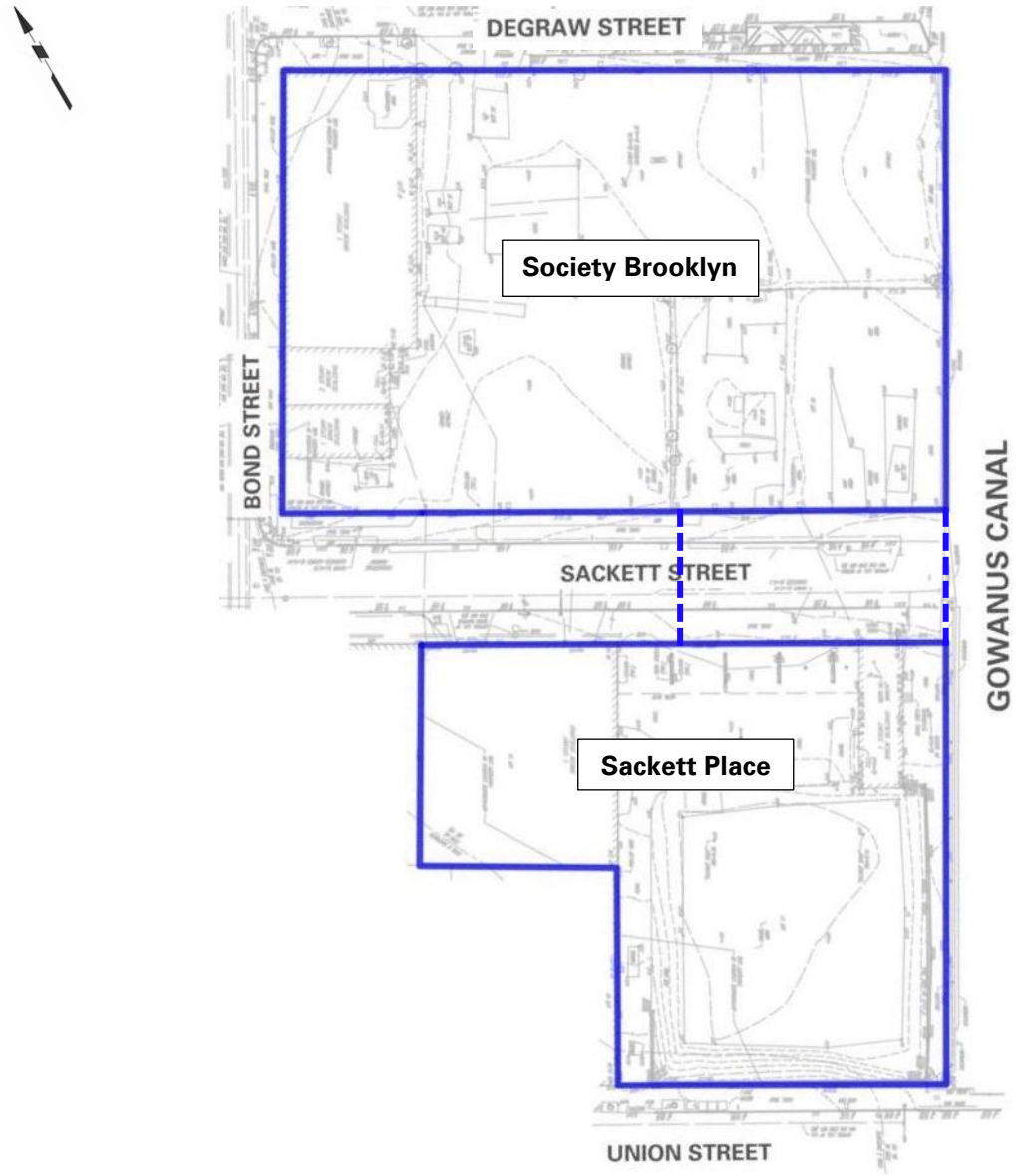
Site Photographs:

Photo 1: Kingdom placing concrete for a mud slab above the SMD system in the northeastern part of Society Brooklyn (facing northwest)

Photo 2: Kingdom excavating for the future cellar in the northern part of Society Brooklyn (facing southwest)

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper
			Langan, D.P.C.

Site Map 1:



Legend

Approximate BCP site boundary

Approximate construction fence boundary

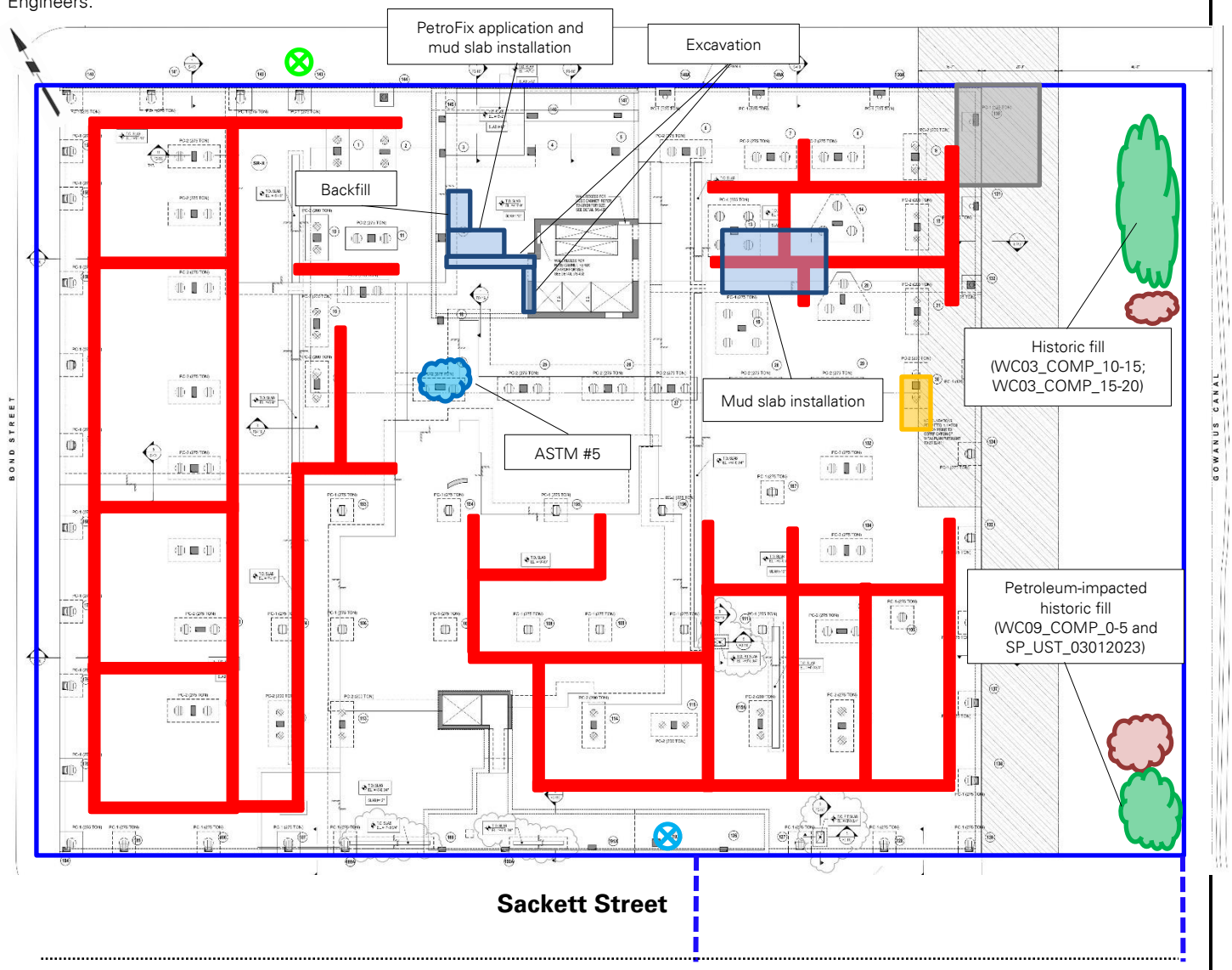
Notes

1. Base map adapted from 24 March 2022 RAWP, Figure 2 – Site Plan.
2. This Site Map is provided for context only; refer to the Northern (Society Brooklyn) and Southern (Sackett Place) Work Area Maps on the following pages for work and air monitoring location(s).

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper **Langan, D.P.C.**

Site Map 2: Northern Work Area Map (Society Brooklyn)

Base map adapted from 1 April 2022 drawing FO-201.00, "Ground Floor Framing Plan" for Society Brooklyn, prepared by DeSimone Consulting Engineers.



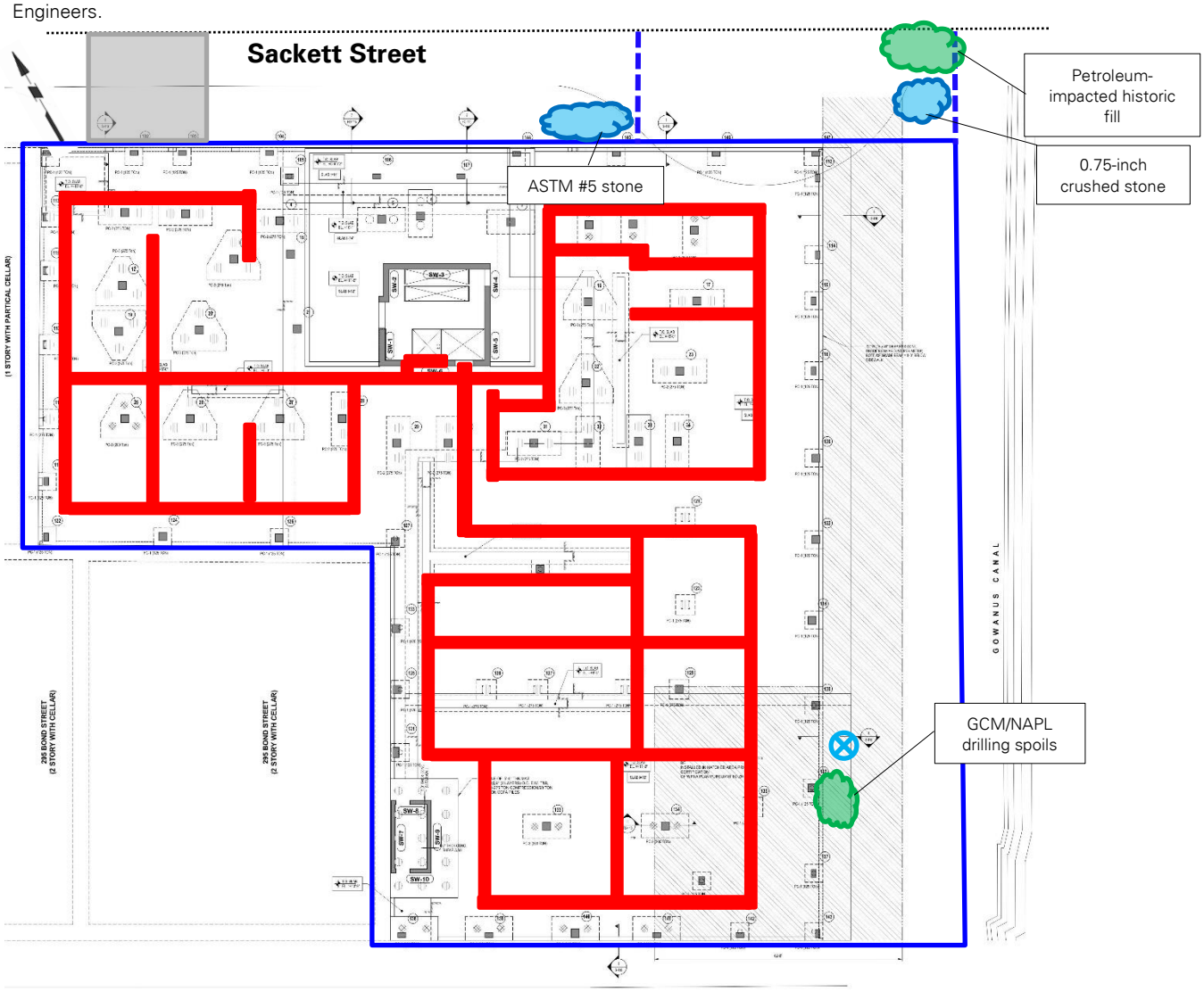
Legend:

- Approximate site boundary
- Approximate construction fence boundary
- Upwind air monitoring station
- Downwind air monitoring station
- Approximate work area
- Approximate stabilized construction entrance
- Approximate soil/fill stockpile location
- Approximate import stockpile location
- Approximate C&D debris stockpile location
- Approximate location of 20 cubic yard scrap metal container
- Approximate location of SMD piping installation

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper **Langan, D.P.C.**

Site Map 3: Southern Work Area Map (Sackett Place)

Base map adapted from 1 April 2022 drawing FO-201.00, "Ground Floor Framing Plan" for Sackett Place, prepared by DeSimone Consulting Engineers.



Legend:

- Approximate site boundary
- Approximate construction fence boundary
- Upwind air monitoring station
- Downwind air monitoring station
- Approximate work area
- Approximate stabilized construction entrance
- Approximate soil/fill stockpile location
- Approximate import stockpile location
- Approximate C&D debris stockpile location
- Approximate location of SMD piping installation

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Lauren Roper
			Langan, D.P.C.

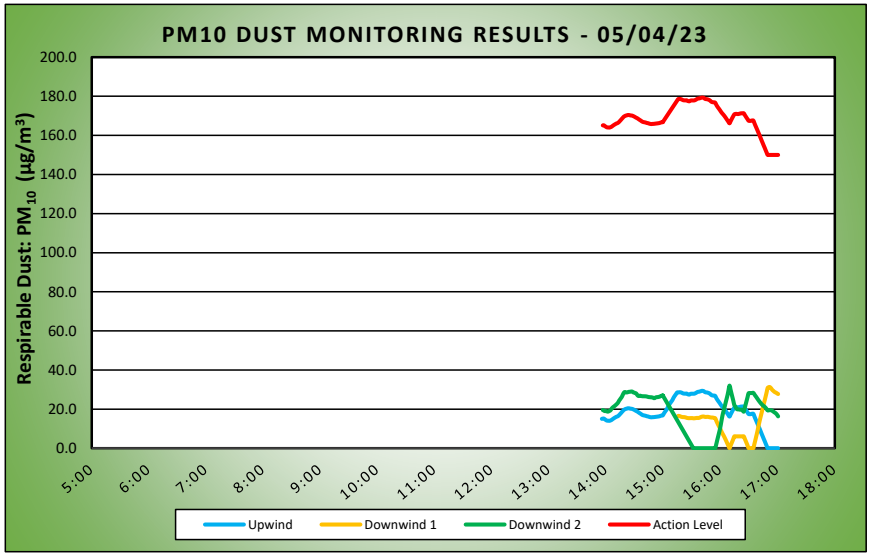
LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

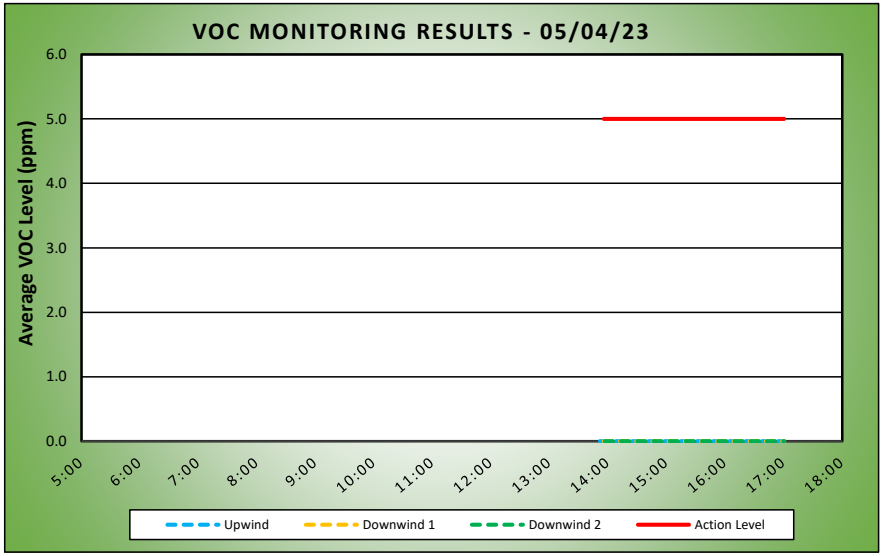
DAILY AIR MONITORING REPORT
Gowanus Canal Northside
267 Bond Street, Brooklyn, New York

05/04/23	
Project number: 170295301	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level	150 µg/m^3
TVOC Action Level	5 ppm

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	66.0 - 82.0	Daily Rain (in)	0.12	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	51.0 - 56.0	Wind Speed (MPH)	1.2 - 3.2	Barometer (inHg)	29.90 - 29.90			

Station Location Work Area	Daily Avg. Dust Concentration (µg/m^3)	Max 15 Min Dust Concentration (µg/m^3)	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	18.0	29.3	15:41	0.0	0.0	13:52
Downwind 1	14.2	31.3	16:52	0.0	0.0	13:56
Downwind 2	19.1	32.0	16:10	0.0	0.0	13:57



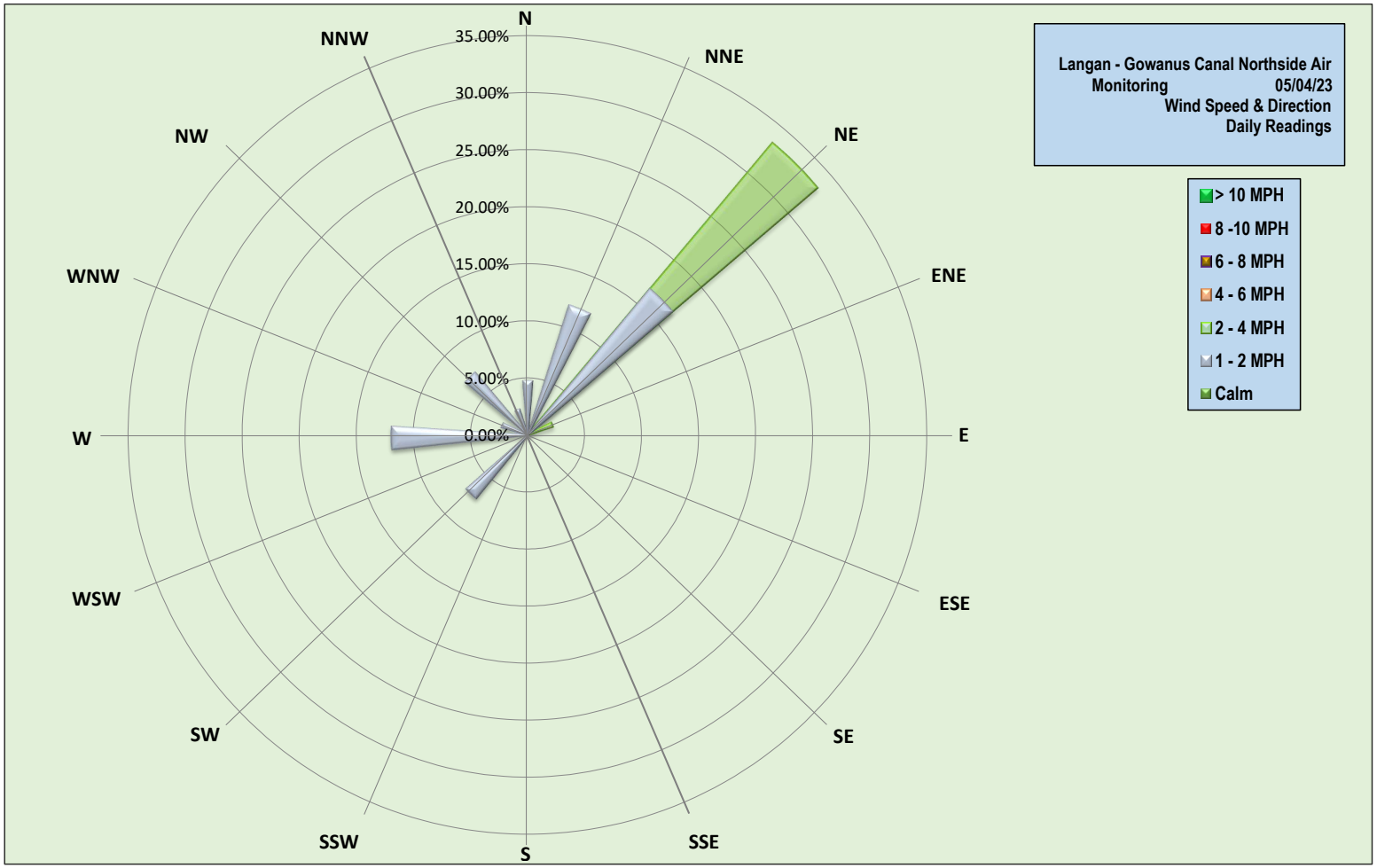


Air Monitoring Notes:

Sampling Notes:

Weather Notes:

EMILCOTT
environmental, health & safety experts


Langan - Gowanus Canal Northside Air Monitoring 05/04/23
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
35.00%
30.00%
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%

Thursday, May 4, 2023									
							Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =		0
							Number of Comparable Data Points =		154
							Start Time:		13:37
							End Time:		17:01
PARTICULATE DATA									
Upwind			Downwind						
Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Exceeds Particulate Alarm Limit
13:37	-	-	13:37	-	-	13:37	18.0	-	-
13:38	-	-	13:38	-	-	13:38	20.8	-	-
13:39	-	-	13:39	-	-	13:39	14.3	-	-
13:40	-	-	13:40	-	-	13:40	13.8	-	-
13:41	14.0	-	13:41	-	-	13:41	-	-	-
13:42	13.8	-	13:42	-	-	13:42	75.3	-	-
13:43	14.8	-	13:43	-	-	13:43	22.5	-	-
13:44	19.3	-	13:44	-	-	13:44	23.0	-	-
13:45	18.3	-	13:45	-	-	13:45	19.0	-	-
13:46	17.8	-	13:46	-	-	13:46	20.0	-	-
13:47	14.8	-	13:47	-	-	13:47	20.8	-	-
13:48	13.3	-	13:48	-	-	13:48	19.0	-	-
13:49	14.5	-	13:49	-	-	13:49	18.0	-	-
13:50	14.0	-	13:50	-	-	13:50	19.3	-	-
13:51	14.0	-	13:51	-	-	13:51	19.0	-	-
13:52	13.5	-	13:52	-	-	13:52	19.0	-	-
13:53	13.8	-	13:53	-	-	13:53	19.0	-	-
13:54	14.0	-	13:54	-	-	13:54	19.0	-	-
13:55	14.8	-	13:55	-	-	13:55	19.0	-	-
13:56	15.0	15.0	13:56	-	-	13:56	18.5	-	-
13:57	15.3	15.1	13:57	-	-	13:57	18.0	19.5	-
13:58	15.5	15.2	13:58	-	-	13:58	18.5	19.3	-
13:59	14.0	14.8	13:59	-	-	13:59	19.0	19.0	-
14:00	13.3	14.5	14:00	-	-	14:00	19.0	19.0	-
14:01	13.3	14.2	14:01	-	-	14:01	18.5	18.9	-
14:02	13.0	14.1	14:02	-	-	14:02	18.0	18.7	-
14:03	13.0	14.1	14:03	-	-	14:03	20.5	18.8	-
14:04	14.0	14.0	14:04	-	-	14:04	22.0	19.1	-
14:05	16.5	14.2	14:05	-	-	14:05	23.3	19.4	-
14:06	17.3	14.4	14:06	-	-	14:06	29.8	20.1	-
14:07	18.8	14.8	14:07	-	-	14:07	28.0	20.7	-
14:08	19.0	15.1	14:08	-	-	14:08	25.3	21.1	-
14:09	19.0	15.4	14:09	-	-	14:09	24.5	21.5	-
14:10	19.0	15.7	14:10	-	-	14:10	25.0	21.9	-
14:11	19.5	16.0	14:11	-	-	14:11	25.3	22.3	-
14:12	18.0	16.2	14:12	-	-	14:12	24.8	22.8	-
14:13	19.3	16.5	14:13	-	-	14:13	27.5	23.4	-
14:14	20.5	16.9	14:14	-	-	14:14	32.5	24.3	-
14:15	21.0	17.4	14:15	-	-	14:15	29.0	24.9	-
14:16	21.3	17.9	14:16	-	-	14:16	29.0	25.6	-
14:17	21.5	18.5	14:17	-	-	14:17	28.5	26.3	-
14:18	21.0	19.0	14:18	-	-	14:18	36.5	27.4	-
14:19	21.8	19.6	14:19	-	-	14:19	35.5	28.3	-
14:20	21.0	19.9	14:20	-	-	14:20	30.3	28.8	-
14:21	21.0	20.1	14:21	-	-	14:21	27.5	28.6	-
14:22	20.5	20.2	14:22	-	-	14:22	27.0	28.5	-
14:23	21.5	20.4	14:23	-	-	14:23	26.5	28.6	-
14:24	19.5	20.4	14:24	-	-	14:24	27.0	28.8	-
14:25	18.0	20.4	14:25	-	-	14:25	26.0	28.9	-
14:26	17.5	20.2	14:26	-	-	14:26	26.3	28.9	-
14:27	17.3	20.2	14:27	-	-	14:27	26.0	29.0	-
14:28	17.8	20.1	14:28	-	-	14:28	26.3	28.9	-
14:29	17.3	19.9	14:29	-	-	14:29	27.0	28.6	-
14:30	17.5	19.6	14:30	-	-	14:30	27.0	28.4	-
14:31	17.0	19.3	14:31	-	-	14:31	25.5	28.2	-
14:32	17.0	19.0	14:32	-	-	14:32	26.0	28.0	-
14:33	17.8	18.8	14:33	-	-	14:33	26.3	27.3	-
14:34	16.8	18.5	14:34	-	-	14:34	27.8	26.8	-
14:35	16.0	18.2	14:35	-	-	14:35	28.3	26.7	-
14:36	16.0	17.8	14:36	-	-	14:36	30.5	26.9	-
14:37	16.0	17.5	14:37	-	-	14:37	24.5	26.7	-
14:38	16.0	17.2	14:38	-	-	14:38	25.3	26.6	-
14:39	16.0	16.9	14:39	-	-	14:39	26.0	26.6	-
14:40	16.0	16.8	14:40	-	-	14:40	26.3	26.6	-
14:41	16.0	16.7	14:41	-	-	14:41	25.8	26.6	-
14:42	15.5	16.6	14:42	-	-	14:42	25.8	26.5	-
14:43	15.0	16.4	14:43	-	-	14:43	25.0	26.5	-
14:44	15.8	16.3	14:44	-	-	14:44	25.0	26.3	-
14:45	15.5	16.2	14:45	-	-	14:45	24.8	26.2	-
14:46	14.3	16.0	14:46	-	-	14:46	25.0	26.1	-
14:47	15.5	15.9	14:47	-	-	14:47	25.0	26.1	-

PARTICULATE DATA									
Upwind			Downwind						Exceeds Particulate Alarm Limit
Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	
14:48	16.8	15.8	14:48	-	-	14:48	26.0	26.1	-
14:49	17.8	15.9	14:49	-	-	14:49	26.0	25.9	-
14:50	16.3	15.9	14:50	-	-	14:50	26.0	25.8	-
14:51	16.8	15.9	14:51	-	-	14:51	27.0	25.6	-
14:52	17.0	16.0	14:52	-	-	14:52	28.8	25.8	-
14:53	17.0	16.1	14:53	-	-	14:53	28.5	26.1	-
14:54	17.0	16.1	14:54	-	-	14:54	27.0	26.1	-
14:55	17.0	16.2	14:55	-	-	14:55	27.0	26.2	-
14:56	17.3	16.3	14:56	-	-	14:56	27.5	26.3	-
14:57	17.5	16.4	14:57	-	-	14:57	28.3	26.5	-
14:58	18.0	16.6	14:58	-	-	14:58	28.8	26.7	-
14:59	17.0	16.7	14:59	-	-	14:59	26.5	26.8	-
15:00	17.3	16.8	15:00	-	-	15:00	27.0	27.0	-
15:01	27.0	17.7	15:01	19.0	-	15:01	-	-	-
15:02	27.0	18.4	15:02	17.3	-	15:02	-	-	-
15:03	27.0	19.1	15:03	17.0	-	15:03	-	-	-
15:04	27.6	19.8	15:04	17.3	-	15:04	-	-	-
15:05	30.5	20.7	15:05	17.0	-	15:05	-	-	-
15:06	31.9	21.7	15:06	17.0	-	15:06	-	-	-
15:07	29.1	22.5	15:07	17.0	-	15:07	-	-	-
15:08	27.4	23.2	15:08	17.0	-	15:08	-	-	-
15:09	27.3	23.9	15:09	17.0	-	15:09	-	-	-
15:10	27.0	24.6	15:10	17.0	-	15:10	-	-	-
15:11	32.3	25.6	15:11	16.8	-	15:11	-	-	-
15:12	30.0	26.4	15:12	16.0	-	15:12	-	-	-
15:13	28.5	27.1	15:13	15.8	-	15:13	-	-	-
15:14	27.1	27.8	15:14	15.5	-	15:14	-	-	-
15:15	27.9	28.5	15:15	15.5	-	15:15	-	-	-
15:16	27.6	28.5	15:16	15.0	16.5	15:16	-	-	-
15:17	27.6	28.6	15:17	16.5	16.5	15:17	0.0	-	-
15:18	27.6	28.6	15:18	15.0	16.4	15:18	0.0	-	-
15:19	26.1	28.5	15:19	14.0	16.1	15:19	0.0	-	-
15:20	27.6	28.3	15:20	15.0	16.0	15:20	0.0	-	-
15:21	28.0	28.1	15:21	15.8	15.9	15:21	0.0	-	-
15:22	27.1	27.9	15:22	17.0	15.9	15:22	0.0	-	-
15:23	27.0	27.9	15:23	16.0	15.9	15:23	0.0	-	-
15:24	27.0	27.9	15:24	15.3	15.7	15:24	0.0	-	-
15:25	27.6	27.9	15:25	14.3	15.6	15:25	0.0	-	-
15:26	27.8	27.6	15:26	15.0	15.4	15:26	0.0	-	-
15:27	27.6	27.5	15:27	15.0	15.4	15:27	0.0	-	-
15:28	28.1	27.5	15:28	15.8	15.4	15:28	0.0	-	-
15:29	31.9	27.8	15:29	16.0	15.4	15:29	0.0	-	-
15:30	29.3	27.9	15:30	15.5	15.4	15:30	0.0	-	-
15:31	27.6	27.9	15:31	15.0	15.4	15:31	0.0	-	-
15:32	27.6	27.9	15:32	15.0	15.3	15:32	0.0	0.0	-
15:33	28.0	27.9	15:33	15.0	15.3	15:33	0.0	0.0	-
15:34	29.1	28.1	15:34	15.0	15.4	15:34	0.0	0.0	-
15:35	31.4	28.3	15:35	16.0	15.4	15:35	0.0	0.0	-
15:36	32.8	28.7	15:36	16.8	15.5	15:36	0.0	0.0	-
15:37	29.8	28.8	15:37	16.0	15.4	15:37	0.0	0.0	-
15:38	28.0	28.9	15:38	17.5	15.5	15:38	0.0	0.0	-
15:39	29.0	29.0	15:39	18.0	15.7	15:39	0.0	0.0	-
15:40	30.0	29.2	15:40	17.8	16.0	15:40	0.0	0.0	-
15:41	29.9	29.3	15:41	17.5	16.1	15:41	0.0	0.0	-
15:42	27.1	29.3	15:42	16.3	16.2	15:42	0.0	0.0	-
15:43	26.0	29.2	15:43	15.5	16.2	15:43	0.0	0.0	-
15:44	26.0	28.8	15:44	14.0	16.1	15:44	0.0	0.0	-
15:45	26.4	28.6	15:45	14.5	16.0	15:45	0.0	0.0	-
15:46	26.9	28.5	15:46	15.5	16.0	15:46	0.0	0.0	-
15:47	26.0	28.4	15:47	15.5	16.1	15:47	0.0	0.0	-
15:48	25.4	28.2	15:48	14.0	16.0	15:48	0.0	0.0	-
15:49	25.5	28.0	15:49	13.0	15.9	15:49	0.0	0.0	-
15:50	25.6	27.6	15:50	14.8	15.8	15:50	0.0	0.0	-
15:51	26.4	27.2	15:51	15.5	15.7	15:51	0.0	0.0	-
15:52	27.0	27.0	15:52	16.0	15.7	15:52	0.0	0.0	-
15:53	27.0	26.9	15:53	16.3	15.6	15:53	0.0	0.0	-
15:54	28.3	26.9	15:54	16.0	15.5	15:54	0.0	0.0	-
15:55	27.5	26.7	15:55	15.8	15.3	15:55	0.0	0.0	-
15:56	15.0	25.7	15:56	0.0	14.2	15:56	28.1	1.9	-
15:57	15.0	24.9	15:57	0.0	13.1	15:57	30.5	3.9	-
15:58	15.3	24.2	15:58	0.0	12.1	15:58	29.8	5.9	-
15:59	16.0	23.5	15:59	0.0	11.1	15:59	29.1	7.8	-
16:00	16.0	22.9	16:00	0.0	10.2	16:00	31.0	9.9	-
16:01	16.0	22.1	16:01	0.0	9.1	16:01	37.9	12.4	-
16:02	16.0	21.5	16:02	0.0	8.1	16:02	42.0	15.2	-
16:03	17.0	20.9	16:03	0.0	7.2	16:03	35.8	17.6	-

PARTICULATE DATA									
Upwind			Downwind						Exceeds Particulate Alarm Limit
Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	Time	Concentration (ug/m^3)	15-Min Avg Concentration (ug/m^3)	
16:04	17.0	20.3	16:04	0.0	6.3	16:04	28.6	19.5	-
16:05	16.0	19.7	16:05	0.0	5.3	16:05	28.9	21.4	-
16:06	16.0	19.0	16:06	0.0	4.3	16:06	30.5	23.5	-
16:07	16.0	18.3	16:07	0.0	3.2	16:07	28.5	25.4	-
16:08	16.5	17.6	16:08	0.0	2.1	16:08	29.4	27.3	-
16:09	17.0	16.8	16:09	0.0	1.1	16:09	36.3	29.8	-
16:10	17.8	16.2	16:10	0.0	0.0	16:10	34.0	32.0	-
16:11	29.4	17.1	16:11	18.0	1.2	16:11	0.0	30.1	-
16:12	29.3	18.1	16:12	17.3	2.4	16:12	0.0	28.1	-
16:13	29.9	19.1	16:13	18.0	3.6	16:13	0.0	26.1	-
16:14	29.0	19.9	16:14	18.3	4.8	16:14	0.0	24.2	-
16:15	28.1	20.7	16:15	19.3	6.1	16:15	0.0	22.1	-
16:16	19.3	20.9	16:16	0.0	6.1	16:16	27.0	21.4	-
16:17	17.0	21.0	16:17	0.0	6.1	16:17	27.6	20.4	-
16:18	16.0	20.9	16:18	0.0	6.1	16:18	28.0	19.9	-
16:19	16.5	20.9	16:19	0.0	6.1	16:19	28.0	19.9	-
16:20	17.8	21.0	16:20	0.0	6.1	16:20	28.0	19.8	-
16:21	18.0	21.2	16:21	0.0	6.1	16:21	28.9	19.7	-
16:22	17.8	21.3	16:22	0.0	6.1	16:22	28.4	19.7	-
16:23	17.0	21.3	16:23	0.0	6.1	16:23	28.0	19.6	-
16:24	17.3	21.3	16:24	0.0	6.1	16:24	28.9	19.1	-
16:25	17.3	21.3	16:25	0.0	6.1	16:25	28.5	18.8	-
16:26	17.0	20.5	16:26	0.0	4.9	16:26	28.3	20.6	-
16:27	17.8	19.7	16:27	0.0	3.7	16:27	28.3	22.5	-
16:28	18.5	18.9	16:28	0.0	2.5	16:28	28.0	24.4	-
16:29	18.0	18.2	16:29	0.0	1.3	16:29	28.0	26.3	-
16:30	17.5	17.5	16:30	0.0	0.0	16:30	28.1	28.1	-
16:31	18.0	17.4	16:31	0.0	0.0	16:31	28.0	28.2	-
16:32	17.0	17.4	16:32	0.0	0.0	16:32	28.0	28.2	-
16:33	18.0	17.6	16:33	0.0	0.0	16:33	28.0	28.2	-
16:34	17.8	17.6	16:34	0.0	0.0	16:34	28.6	28.3	-
16:35	17.3	17.6	16:35	0.0	0.0	16:35	29.0	28.3	-
16:36	0.0	16.4	16:36	29.0	1.9	16:36	18.0	27.6	-
16:37	0.0	15.2	16:37	29.5	3.9	16:37	18.0	26.9	-
16:38	0.0	14.1	16:38	30.9	6.0	16:38	18.0	26.2	-
16:39	0.0	12.9	16:39	30.9	8.0	16:39	18.0	25.5	-
16:40	0.0	11.8	16:40	34.8	10.3	16:40	18.0	24.8	-
16:41	0.0	10.7	16:41	34.5	12.6	16:41	18.0	24.1	-
16:42	0.0	9.5	16:42	32.1	14.8	16:42	18.8	23.5	-
16:43	0.0	8.2	16:43	29.6	16.8	16:43	18.8	22.9	-
16:44	0.0	7.0	16:44	29.1	18.7	16:44	20.0	22.4	-
16:45	0.0	5.9	16:45	30.3	20.7	16:45	21.5	21.9	-
16:46	0.0	4.7	16:46	30.3	22.7	16:46	22.0	21.5	-
16:47	0.0	3.5	16:47	29.0	24.7	16:47	22.0	21.1	-
16:48	0.0	2.3	16:48	29.4	26.6	16:48	20.5	20.6	-
16:49	0.0	1.2	16:49	31.0	28.7	16:49	19.3	20.0	-
16:50	0.0	0.0	16:50	32.1	30.8	16:50	19.0	19.3	-
16:51	0.0	0.0	16:51	34.1	31.2	16:51	19.0	19.4	-
16:52	0.0	0.0	16:52	31.8	31.3	16:52	19.0	19.5	-
16:53	0.0	0.0	16:53	25.9	31.0	16:53	18.0	19.5	-
16:54	0.0	0.0	16:54	22.3	30.4	16:54	16.8	19.4	-
16:55	0.0	0.0	16:55	24.8	29.7	16:55	13.8	19.1	-
16:56	0.0	0.0	16:56	28.5	29.3	16:56	13.0	18.8	-
16:57	0.0	0.0	16:57	25.1	28.9	16:57	13.0	18.4	-
16:58	0.0	0.0	16:58	25.4	28.6	16:58	14.0	18.1	-
16:59	0.0	0.0	16:59	25.4	28.3	16:59	13.8	17.6	-
17:00	0.0	0.0	17:00	25.4	28.0	17:00	12.5	17.0	-
17:01	0.0	0.0	17:01	25.8	27.7	17:01	10.8	16.3	-

Thursday, May 4, 2023									
							Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =		0
							Number of Comparable Data Points =		186
							Start Time:		13:37
							End Time:		17:01
PID DATA									
Upwind			Downwind						
Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Exceeds Particulate Alarm Limit
13:37	0.0	-	13:37	-	-	13:37	0.0	-	-
13:38	0.0	-	13:38	-	-	13:38	0.0	-	-
13:39	0.0	-	13:39	-	-	13:39	0.0	-	-
13:40	0.0	-	13:40	-	-	13:40	0.0	-	-
13:41	0.0	-	13:41	0.0	-	13:41	-	-	-
13:42	0.0	-	13:42	0.0	-	13:42	0.0	-	-
13:43	0.0	-	13:43	0.0	-	13:43	0.0	-	-
13:44	0.0	-	13:44	0.0	-	13:44	0.0	-	-
13:45	0.0	-	13:45	0.0	-	13:45	0.0	-	-
13:46	0.0	-	13:46	0.0	-	13:46	0.0	-	-
13:47	0.0	-	13:47	0.0	-	13:47	0.0	-	-
13:48	0.0	-	13:48	0.0	-	13:48	0.0	-	-
13:49	0.0	-	13:49	0.0	-	13:49	0.0	-	-
13:50	0.0	-	13:50	0.0	-	13:50	0.0	-	-
13:51	0.0	-	13:51	0.0	-	13:51	0.0	-	-
13:52	0.0	0.0	13:52	0.0	-	13:52	0.0	-	-
13:53	0.0	0.0	13:53	0.0	-	13:53	0.0	-	-
13:54	0.0	0.0	13:54	0.0	-	13:54	0.0	-	-
13:55	0.0	0.0	13:55	0.0	-	13:55	0.0	-	-
13:56	0.0	0.0	13:56	0.0	0.0	13:56	0.0	-	-
13:57	0.0	0.0	13:57	0.0	0.0	13:57	0.0	0.0	-
13:58	0.0	0.0	13:58	0.0	0.0	13:58	0.0	0.0	-
13:59	0.0	0.0	13:59	0.0	0.0	13:59	0.0	0.0	-
14:00	0.0	0.0	14:00	0.0	0.0	14:00	0.0	0.0	-
14:01	0.0	0.0	14:01	0.0	0.0	14:01	0.0	0.0	-
14:02	0.0	0.0	14:02	0.0	0.0	14:02	0.0	0.0	-
14:03	0.0	0.0	14:03	0.0	0.0	14:03	0.0	0.0	-
14:04	0.0	0.0	14:04	0.0	0.0	14:04	0.0	0.0	-
14:05	0.0	0.0	14:05	0.0	0.0	14:05	0.0	0.0	-
14:06	0.0	0.0	14:06	0.0	0.0	14:06	0.0	0.0	-
14:07	0.0	0.0	14:07	0.0	0.0	14:07	0.0	0.0	-
14:08	0.0	0.0	14:08	0.0	0.0	14:08	0.0	0.0	-
14:09	0.0	0.0	14:09	0.0	0.0	14:09	0.0	0.0	-
14:10	0.0	0.0	14:10	0.0	0.0	14:10	0.0	0.0	-
14:11	0.0	0.0	14:11	0.0	0.0	14:11	0.0	0.0	-
14:12	0.0	0.0	14:12	0.0	0.0	14:12	0.0	0.0	-
14:13	0.0	0.0	14:13	0.0	0.0	14:13	0.0	0.0	-
14:14	0.0	0.0	14:14	0.0	0.0	14:14	0.0	0.0	-
14:15	0.0	0.0	14:15	0.0	0.0	14:15	0.0	0.0	-
14:16	0.0	0.0	14:16	0.0	0.0	14:16	0.0	0.0	-
14:17	0.0	0.0	14:17	0.0	0.0	14:17	0.0	0.0	-
14:18	0.0	0.0	14:18	0.0	0.0	14:18	0.0	0.0	-
14:19	0.0	0.0	14:19	0.0	0.0	14:19	0.0	0.0	-
14:20	0.0	0.0	14:20	0.0	0.0	14:20	0.0	0.0	-
14:21	0.0	0.0	14:21	0.0	0.0	14:21	0.0	0.0	-
14:22	0.0	0.0	14:22	0.0	0.0	14:22	0.0	0.0	-
14:23	0.0	0.0	14:23	0.0	0.0	14:23	0.0	0.0	-
14:24	0.0	0.0	14:24	0.0	0.0	14:24	0.0	0.0	-
14:25	0.0	0.0	14:25	0.0	0.0	14:25	0.0	0.0	-
14:26	0.0	0.0	14:26	0.0	0.0	14:26	0.0	0.0	-
14:27	0.0	0.0	14:27	0.0	0.0	14:27	0.0	0.0	-
14:28	0.0	0.0	14:28	0.0	0.0	14:28	0.0	0.0	-
14:29	0.0	0.0	14:29	0.0	0.0	14:29	0.0	0.0	-
14:30	0.0	0.0	14:30	0.0	0.0	14:30	0.0	0.0	-
14:31	0.0	0.0	14:31	0.0	0.0	14:31	0.0	0.0	-
14:32	0.0	0.0	14:32	0.0	0.0	14:32	0.0	0.0	-
14:33	0.0	0.0	14:33	0.0	0.0	14:33	0.0	0.0	-
14:34	0.0	0.0	14:34	0.0	0.0	14:34	0.0	0.0	-
14:35	0.0	0.0	14:35	0.0	0.0	14:35	0.0	0.0	-
14:36	0.0	0.0	14:36	0.0	0.0	14:36	0.0	0.0	-
14:37	0.0	0.0	14:37	0.0	0.0	14:37	0.0	0.0	-
14:38	0.0	0.0	14:38	0.0	0.0	14:38	0.0	0.0	-
14:39	0.0	0.0	14:39	0.0	0.0	14:39	0.0	0.0	-
14:40	0.0	0.0	14:40	0.0	0.0	14:40	0.0	0.0	-
14:41	0.0	0.0	14:41	0.0	0.0	14:41	0.0	0.0	-
14:42	0.0	0.0	14:42	0.0	0.0	14:42	0.0	0.0	-
14:43	0.0	0.0	14:43	0.0	0.0	14:43	0.0	0.0	-
14:44	0.0	0.0	14:44	0.0	0.0	14:44	0.0	0.0	-
14:45	0.0	0.0	14:45	0.0	0.0	14:45	0.0	0.0	-
14:46	0.0	0.0	14:46	0.0	0.0	14:46	0.0	0.0	-
14:47	0.0	0.0	14:47	0.0	0.0	14:47	0.0	0.0	-

PID DATA									
Upwind			Downwind						Exceeds Particulate Alarm Limit
Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	
14:48	0.0	0.0	14:48	0.0	0.0	14:48	0.0	0.0	-
14:49	0.0	0.0	14:49	0.0	0.0	14:49	0.0	0.0	-
14:50	0.0	0.0	14:50	0.0	0.0	14:50	0.0	0.0	-
14:51	0.0	0.0	14:51	0.0	0.0	14:51	0.0	0.0	-
14:52	0.0	0.0	14:52	0.0	0.0	14:52	0.0	0.0	-
14:53	0.0	0.0	14:53	0.0	0.0	14:53	0.0	0.0	-
14:54	0.0	0.0	14:54	0.0	0.0	14:54	0.0	0.0	-
14:55	0.0	0.0	14:55	0.0	0.0	14:55	0.0	0.0	-
14:56	0.0	0.0	14:56	0.0	0.0	14:56	0.0	0.0	-
14:57	0.0	0.0	14:57	0.0	0.0	14:57	0.0	0.0	-
14:58	0.0	0.0	14:58	0.0	0.0	14:58	0.0	0.0	-
14:59	0.0	0.0	14:59	0.0	0.0	14:59	0.0	0.0	-
15:00	0.0	0.0	15:00	0.0	0.0	15:00	0.0	0.0	-
15:01	0.0	0.0	15:01	0.0	0.0	15:01	0.0	0.0	-
15:02	0.0	0.0	15:02	0.0	0.0	15:02	0.0	0.0	-
15:03	0.0	0.0	15:03	0.0	0.0	15:03	0.0	0.0	-
15:04	0.0	0.0	15:04	0.0	0.0	15:04	0.0	0.0	-
15:05	0.0	0.0	15:05	0.0	0.0	15:05	0.0	0.0	-
15:06	0.0	0.0	15:06	0.0	0.0	15:06	0.0	0.0	-
15:07	0.0	0.0	15:07	0.0	0.0	15:07	0.0	0.0	-
15:08	0.0	0.0	15:08	0.0	0.0	15:08	0.0	0.0	-
15:09	0.0	0.0	15:09	0.0	0.0	15:09	0.0	0.0	-
15:10	0.0	0.0	15:10	0.0	0.0	15:10	0.0	0.0	-
15:11	0.0	0.0	15:11	0.0	0.0	15:11	0.0	0.0	-
15:12	0.0	0.0	15:12	0.0	0.0	15:12	0.0	0.0	-
15:13	0.0	0.0	15:13	0.0	0.0	15:13	0.0	0.0	-
15:14	0.0	0.0	15:14	0.0	0.0	15:14	0.0	0.0	-
15:15	0.0	0.0	15:15	0.0	0.0	15:15	0.0	0.0	-
15:16	0.0	0.0	15:16	0.0	0.0	15:16	0.0	0.0	-
15:17	0.0	0.0	15:17	0.0	0.0	15:17	0.0	0.0	-
15:18	0.0	0.0	15:18	0.0	0.0	15:18	0.0	0.0	-
15:19	0.0	0.0	15:19	0.0	0.0	15:19	0.0	0.0	-
15:20	0.0	0.0	15:20	0.0	0.0	15:20	0.0	0.0	-
15:21	0.0	0.0	15:21	0.0	0.0	15:21	0.0	0.0	-
15:22	0.0	0.0	15:22	0.0	0.0	15:22	0.0	0.0	-
15:23	0.0	0.0	15:23	0.0	0.0	15:23	0.0	0.0	-
15:24	0.0	0.0	15:24	0.0	0.0	15:24	0.0	0.0	-
15:25	0.0	0.0	15:25	0.0	0.0	15:25	0.0	0.0	-
15:26	0.0	0.0	15:26	0.0	0.0	15:26	0.0	0.0	-
15:27	0.0	0.0	15:27	0.0	0.0	15:27	0.0	0.0	-
15:28	0.0	0.0	15:28	0.0	0.0	15:28	0.0	0.0	-
15:29	0.0	0.0	15:29	0.0	0.0	15:29	0.0	0.0	-
15:30	0.0	0.0	15:30	0.0	0.0	15:30	0.0	0.0	-
15:31	0.0	0.0	15:31	0.0	0.0	15:31	0.0	0.0	-
15:32	0.0	0.0	15:32	0.0	0.0	15:32	0.0	0.0	-
15:33	0.0	0.0	15:33	0.0	0.0	15:33	0.0	0.0	-
15:34	0.0	0.0	15:34	0.0	0.0	15:34	0.0	0.0	-
15:35	0.0	0.0	15:35	0.0	0.0	15:35	0.0	0.0	-
15:36	0.0	0.0	15:36	0.0	0.0	15:36	0.0	0.0	-
15:37	0.0	0.0	15:37	0.0	0.0	15:37	0.0	0.0	-
15:38	0.0	0.0	15:38	0.0	0.0	15:38	0.0	0.0	-
15:39	0.0	0.0	15:39	0.0	0.0	15:39	0.0	0.0	-
15:40	0.0	0.0	15:40	0.0	0.0	15:40	0.0	0.0	-
15:41	0.0	0.0	15:41	0.0	0.0	15:41	0.0	0.0	-
15:42	0.0	0.0	15:42	0.0	0.0	15:42	0.0	0.0	-
15:43	0.0	0.0	15:43	0.0	0.0	15:43	0.0	0.0	-
15:44	0.0	0.0	15:44	0.0	0.0	15:44	0.0	0.0	-
15:45	0.0	0.0	15:45	0.0	0.0	15:45	0.0	0.0	-
15:46	0.0	0.0	15:46	0.0	0.0	15:46	0.0	0.0	-
15:47	0.0	0.0	15:47	0.0	0.0	15:47	0.0	0.0	-
15:48	0.0	0.0	15:48	0.0	0.0	15:48	0.0	0.0	-
15:49	0.0	0.0	15:49	0.0	0.0	15:49	0.0	0.0	-
15:50	0.0	0.0	15:50	0.0	0.0	15:50	0.0	0.0	-
15:51	0.0	0.0	15:51	0.0	0.0	15:51	0.0	0.0	-
15:52	0.0	0.0	15:52	0.0	0.0	15:52	0.0	0.0	-
15:53	0.0	0.0	15:53	0.0	0.0	15:53	0.0	0.0	-
15:54	0.0	0.0	15:54	0.0	0.0	15:54	0.0	0.0	-
15:55	0.0	0.0	15:55	0.0	0.0	15:55	0.0	0.0	-
15:56	0.0	0.0	15:56	0.0	0.0	15:56	0.0	0.0	-
15:57	0.0	0.0	15:57	0.0	0.0	15:57	0.0	0.0	-
15:58	0.0	0.0	15:58	0.0	0.0	15:58	0.0	0.0	-
15:59	0.0	0.0	15:59	0.0	0.0	15:59	0.0	0.0	-
16:00	0.0	0.0	16:00	0.0	0.0	16:00	0.0	0.0	-
16:01	0.0	0.0	16:01	0.0	0.0	16:01	0.0	0.0	-
16:02	0.0	0.0	16:02	0.0	0.0	16:02	0.0	0.0	-
16:03	0.0	0.0	16:03	0.0	0.0	16:03	0.0	0.0	-

PID DATA									
Upwind			Downwind						Exceeds Particulate Alarm Limit
Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	Time	Concentration (ppm)	15-Min Avg Concentration (ppm)	
16:04	0.0	0.0	16:04	0.0	0.0	16:04	0.0	0.0	-
16:05	0.0	0.0	16:05	0.0	0.0	16:05	0.0	0.0	-
16:06	0.0	0.0	16:06	0.0	0.0	16:06	0.0	0.0	-
16:07	0.0	0.0	16:07	0.0	0.0	16:07	0.0	0.0	-
16:08	0.0	0.0	16:08	0.0	0.0	16:08	0.0	0.0	-
16:09	0.0	0.0	16:09	0.0	0.0	16:09	0.0	0.0	-
16:10	0.0	0.0	16:10	0.0	0.0	16:10	0.0	0.0	-
16:11	0.0	0.0	16:11	0.0	0.0	16:11	0.0	0.0	-
16:12	0.0	0.0	16:12	0.0	0.0	16:12	0.0	0.0	-
16:13	0.0	0.0	16:13	0.0	0.0	16:13	0.0	0.0	-
16:14	0.0	0.0	16:14	0.0	0.0	16:14	0.0	0.0	-
16:15	0.0	0.0	16:15	0.0	0.0	16:15	0.0	0.0	-
16:16	0.0	0.0	16:16	0.0	0.0	16:16	0.0	0.0	-
16:17	0.0	0.0	16:17	0.0	0.0	16:17	0.0	0.0	-
16:18	0.0	0.0	16:18	0.0	0.0	16:18	0.0	0.0	-
16:19	0.0	0.0	16:19	0.0	0.0	16:19	0.0	0.0	-
16:20	0.0	0.0	16:20	0.0	0.0	16:20	0.0	0.0	-
16:21	0.0	0.0	16:21	0.0	0.0	16:21	0.0	0.0	-
16:22	0.0	0.0	16:22	0.0	0.0	16:22	0.0	0.0	-
16:23	0.0	0.0	16:23	0.0	0.0	16:23	0.0	0.0	-
16:24	0.0	0.0	16:24	0.0	0.0	16:24	0.0	0.0	-
16:25	0.0	0.0	16:25	0.0	0.0	16:25	0.0	0.0	-
16:26	0.0	0.0	16:26	0.0	0.0	16:26	0.0	0.0	-
16:27	0.0	0.0	16:27	0.0	0.0	16:27	0.0	0.0	-
16:28	0.0	0.0	16:28	0.0	0.0	16:28	0.0	0.0	-
16:29	0.0	0.0	16:29	0.0	0.0	16:29	0.0	0.0	-
16:30	0.0	0.0	16:30	0.0	0.0	16:30	0.0	0.0	-
16:31	0.0	0.0	16:31	0.0	0.0	16:31	0.0	0.0	-
16:32	0.0	0.0	16:32	0.0	0.0	16:32	0.0	0.0	-
16:33	0.0	0.0	16:33	0.0	0.0	16:33	0.0	0.0	-
16:34	0.0	0.0	16:34	0.0	0.0	16:34	0.0	0.0	-
16:35	0.0	0.0	16:35	0.0	0.0	16:35	0.0	0.0	-
16:36	0.0	0.0	16:36	0.0	0.0	16:36	0.0	0.0	-
16:37	0.0	0.0	16:37	0.0	0.0	16:37	0.0	0.0	-
16:38	0.0	0.0	16:38	0.0	0.0	16:38	0.0	0.0	-
16:39	0.0	0.0	16:39	0.0	0.0	16:39	0.0	0.0	-
16:40	0.0	0.0	16:40	0.0	0.0	16:40	0.0	0.0	-
16:41	0.0	0.0	16:41	0.0	0.0	16:41	0.0	0.0	-
16:42	0.0	0.0	16:42	0.0	0.0	16:42	0.0	0.0	-
16:43	0.0	0.0	16:43	0.0	0.0	16:43	0.0	0.0	-
16:44	0.0	0.0	16:44	0.0	0.0	16:44	0.0	0.0	-
16:45	0.0	0.0	16:45	0.0	0.0	16:45	0.0	0.0	-
16:46	0.0	0.0	16:46	0.0	0.0	16:46	0.0	0.0	-
16:47	0.0	0.0	16:47	0.0	0.0	16:47	0.0	0.0	-
16:48	0.0	0.0	16:48	0.0	0.0	16:48	0.0	0.0	-
16:49	0.0	0.0	16:49	0.0	0.0	16:49	0.0	0.0	-
16:50	0.0	0.0	16:50	0.0	0.0	16:50	0.0	0.0	-
16:51	0.0	0.0	16:51	0.0	0.0	16:51	0.0	0.0	-
16:52	0.0	0.0	16:52	0.0	0.0	16:52	0.0	0.0	-
16:53	0.0	0.0	16:53	0.0	0.0	16:53	0.0	0.0	-
16:54	0.0	0.0	16:54	0.0	0.0	16:54	0.0	0.0	-
16:55	0.0	0.0	16:55	0.0	0.0	16:55	0.0	0.0	-
16:56	0.0	0.0	16:56	0.0	0.0	16:56	0.0	0.0	-
16:57	0.0	0.0	16:57	0.0	0.0	16:57	0.0	0.0	-
16:58	0.0	0.0	16:58	0.0	0.0	16:58	0.0	0.0	-
16:59	0.0	0.0	16:59	0.0	0.0	16:59	0.0	0.0	-
17:00	0.0	0.0	17:00	0.0	0.0	17:00	0.0	0.0	-
17:01	0.0	0.0	17:01	0.0	0.0	17:01	0.0	0.0	-