

DAILY FIELD REPORT 021

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	X
TEMP.	< 32		32-50		50-70		70-85	X	>85	X

Prepared By: LANGAN

BCP Project No:	C231153	Date:	July 5, 2023
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Project Name:	Kasser Scrap Metal and Rector Cleaners Site	Time:	7:00 am to 3:45 pm
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Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Langan Field Personnel:
Caitlyn Dempsey (Environmental)
Xianglei Zheng (Geotechnical)

Construction Manager: Consigli Construction Co., Inc. (Consigli)

Foundation Contractor: Urban Foundation/Engineering (Urban)

ork Activities Performed:

- Urban excavated an about 10-foot-long by 5-foot-wide area to about 3-feet below grade surface (bgs) in the northern part of waste characterization grid WC03_0-5 to prepare the area for the installation of soil-mix columns. Excavated soil/fill was stockpiled in the central area of waste characterization grid WC02 and covered with polyethylene sheeting at the end of the day.
- Urban graded an about 105-foot-long by 75-foot-wide area in the central part of the site (waste characterization grids WC02 and WC03) to prepare for equipment mobilization.
- All excavated and graded soil/fill consisted of non-native soil; odors, staining, elevated photoionization detector (PID) readings, or other evidence of a petroleum or chemical release were not observed.
- Urban installed four, about 58-inch-diameter, soil-mix columns using a Bauer BG 28H drilling rig in the northern part of the site.
- Urban installed two, about 36-inch-diameter, caisson casings using a Bauer BG 28H drilling rig in the central part of the site.

Material Tracking:

- No soil/fill was exported from the site.
- No material was imported to the site.

Materials Export Summary

Facility Name	Bayshore Soil Management, LLC		Clean Earth of Carteret, LLC		PPark NJ		Faztec Solutions	
Location	Keasbey, NJ		Carteret, NJ		Prospect Park, NJ		Staten Island, NY	
Type of Waste	Non-hazardous Soil		Non-hazardous Soil		Non-hazardous Soil		C&D	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
		0	-	0	-	0	-	0
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
	19	380	17	340	0	-	14	280

Samples Collected:

- No samples were collected.

Air Monitoring:

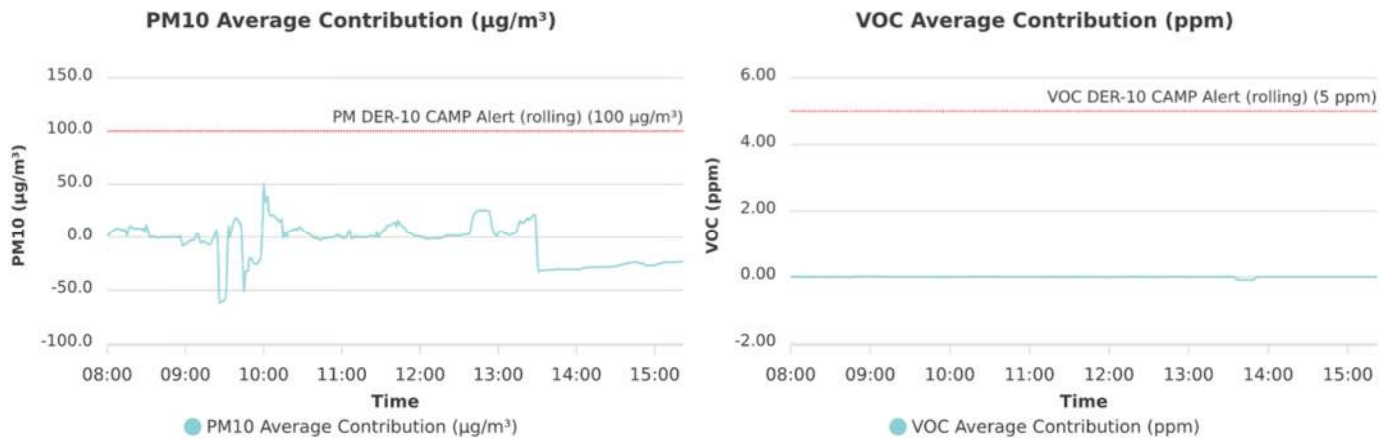
The 15-minute average site contributions for particulates and volatile organic compounds (VOCs) are calculated by subtracting the upwind readings from the downwind readings. A true action level exceedance is realized when this net result exceeds 100 µg/m³ for particulates and 5 ppm for organic vapors. No particulates (PM10) or organic vapors exceeded the 15-minute average site contribution action levels of 100 µg/m³ and 5 ppm, respectively, on this day. Data gaps were encountered from 9:22 to 9:23, at 9:32, from 11:04 to 11:05, and from 13:29 to 13:30. The data gaps were attributed to an error encountered with the weather station equipment.

Please note the New York State Department of Environmental Conservation and State Department of Health (DOH) issued an Air Quality Health Advisory for all state regions for Wednesday, July 5, 2023. Ambient air quality conditions may have affected air monitoring results.

Particulate Monitoring (µg/m ³)		Organic Vapor Monitoring (ppm)	
Daily Background	52.1	Daily Background	0.01
PM10 Average Site Contribution (Minimum)	-62.0	VOC Average Site Contribution (Minimum)	-0.09
PM10 Average Site Contribution (Maximum)	50.8	VOC Average Site Contribution (Maximum)	0.02

µg/m³: micrograms per cubic meter.

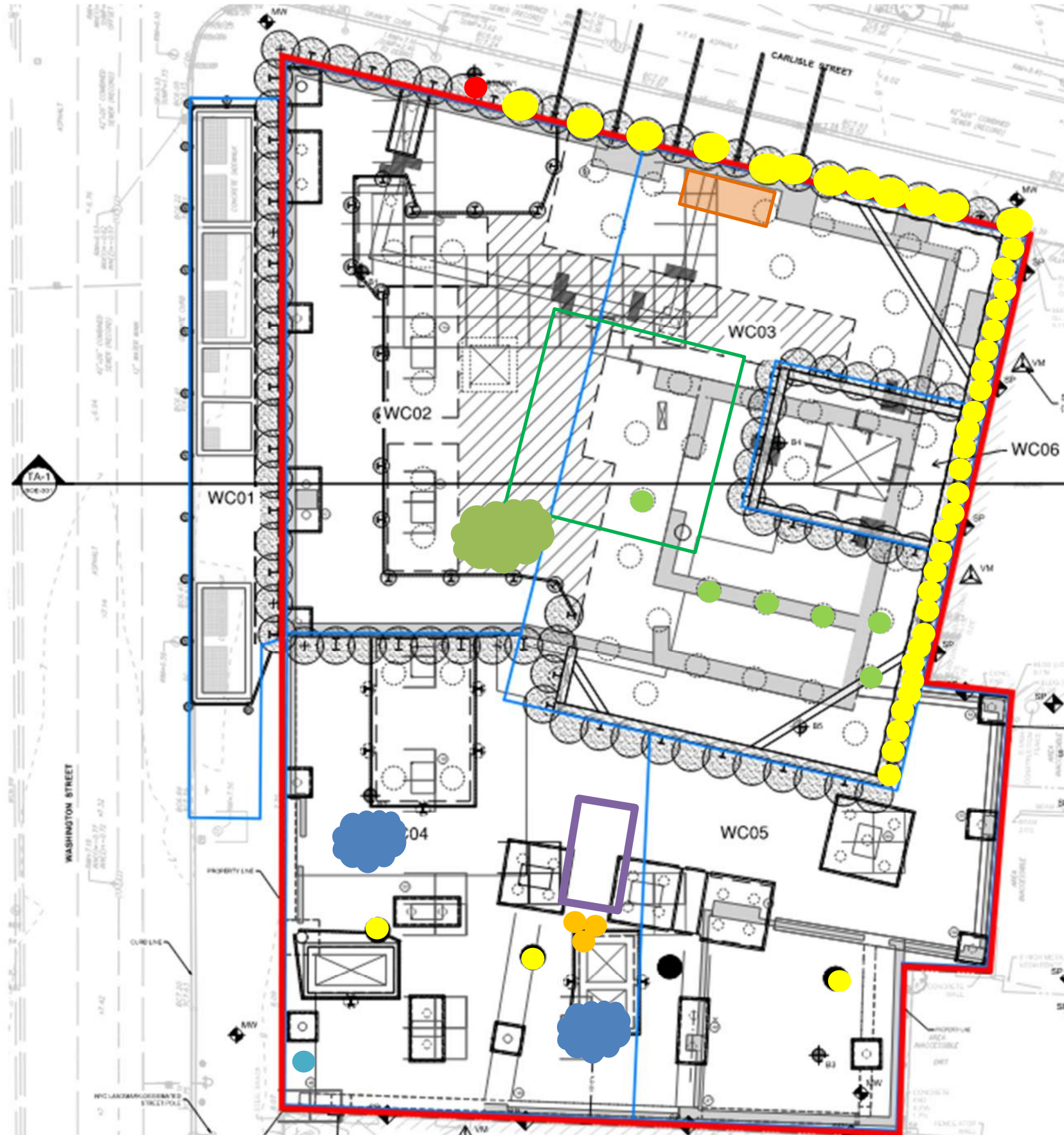
ppm: parts per million.



Planned Activities:

- Urban will continue installing soil-mix columns throughout the site.
- Urban will continue installing caisson casings throughout the site.

SITE PLAN



- Site Boundary**
- Waste Characterization Grid Boundary**
- **CAMP station 1**
- **CAMP station 2**
- **Stockpile – Soil (no impacts)**
- **Stockpile – C&D**
- Approximate Location of Excavation**
- Approximate Area of Grading**
- Approximate Backfill Location**
- **Completed Soil-Mix Column**
- **Completed Caisson Casing**
- **Completed Soil-Mix Column as part of the In-Situ Stabilization of NAPL-contaminated Soil**
- Approximate Location of the UST**

Note: Waste characterization grid areas were developed by PT Consultants and Urban and is shown on this site plan for reference only.

Photo Log

Photo 1: Urban grading soil/fill in the central part of waste characterization grid WC03 (facing southeast).



Photo 2: Stockpile covered with polyethylene sheeting at the end of the work day in the central part of waste characterization grid WC02 (facing northeast).



Photo 3: View of CAMP Station 1 in the northern part of the site (facing north).



Photo 4: View of CAMP Station 2 in the southwestern part of the site (facing southwest).



Photo 5: View of the entrance/exit of the site along Washington Street at the end of the work day (facing north).



Photo 6: View of the entrance/exit of the site at the corner of Carlisle and Washington Street at the end of the work day (facing south).



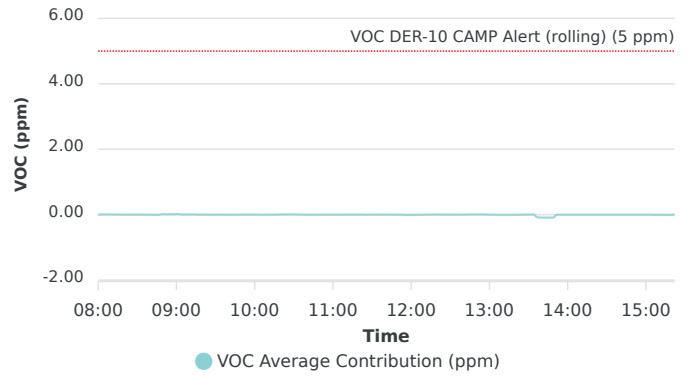
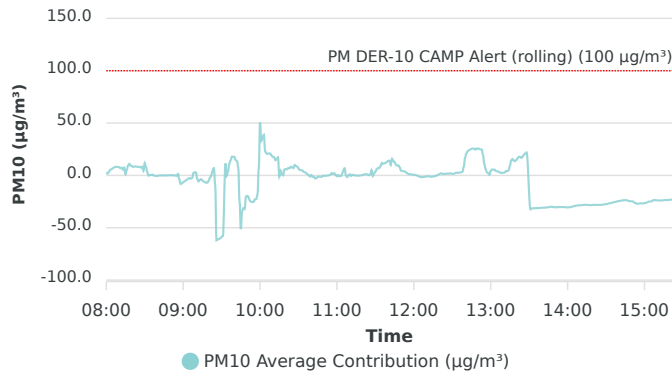
LANGAN	Air Monitoring Report	170695201 - 111 Washington St	
		Report Period	
		From:	7/5/2023 08:00
		To:	7/5/2023 18:00
		PM10 Action Level:	100 $\mu\text{g}/\text{m}^3$
VOC Action Level:	5 ppm		

Daily Environmental Summary	Windspeed (mph)	Prevailing wind direction
7/5/2023	0.2-2.1	S

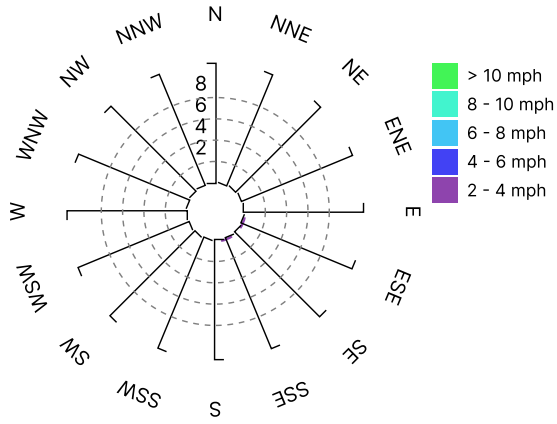


PM10 Average Contribution ($\mu\text{g}/\text{m}^3$)

VOC Average Contribution (ppm)



Contribution wind rose (mph)



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 08:00:00	52.1	54.7	2.7	0.01	0.02	0.00	0.7	W
7/5/2023 08:01:00	51.3	53.0	1.7	0.01	0.01	0.00	0.7	WNW
7/5/2023 08:02:00	49.5	52.8	3.3	0.01	0.01	0.00	0.8	NW
7/5/2023 08:03:00	47.4	52.6	5.2	0.01	0.01	0.01	0.8	NW
7/5/2023 08:04:00	45.4	51.3	5.9	0.01	0.01	0.01	0.8	ENE
7/5/2023 08:05:00	43.0	49.8	6.8	0.00	0.01	0.01	0.7	ESE
7/5/2023 08:06:00	40.7	48.2	7.5	0.00	0.01	0.01	0.7	E
7/5/2023 08:07:00	38.2	46.4	8.2	0.00	0.01	0.01	0.7	NNW
7/5/2023 08:08:00	36.0	44.2	8.1	0.00	0.01	0.01	0.7	NNW
7/5/2023 08:09:00	34.1	42.2	8.1	0.00	0.01	0.01	0.7	E
7/5/2023 08:10:00	32.6	40.4	7.8	0.00	0.00	0.00	0.7	NNW
7/5/2023 08:11:00	31.5	38.6	7.0	0.00	0.00	0.00	0.6	ESE
7/5/2023 08:12:00	30.2	37.5	7.4	0.00	0.00	0.00	0.6	NNW
7/5/2023 08:13:00	29.5	35.1	5.5	0.00	0.00	0.00	0.7	W
7/5/2023 08:14:00	28.7	36.2	7.5	0.00	0.00	0.00	0.6	NE
7/5/2023 08:15:00	34.5	35.7	1.2	0.00	0.00	0.00	0.6	ESE
7/5/2023 08:16:00	34.9	40.1	5.2	0.00	0.00	0.00	0.5	E
7/5/2023 08:17:00	34.9	44.4	9.4	0.00	0.00	0.00	0.5	NNW
7/5/2023 08:18:00	34.7	45.7	11.0	0.00	0.00	0.00	0.5	NNW
7/5/2023 08:19:00	35.9	45.3	9.4	0.00	0.00	0.00	0.5	SE
7/5/2023 08:20:00	36.5	45.4	8.9	0.00	0.00	0.00	0.5	ESE
7/5/2023 08:21:00	37.2	45.3	8.1	0.00	0.00	0.00	0.5	W
7/5/2023 08:22:00	37.2	45.7	8.5	0.00	0.00	0.00	0.5	NNW
7/5/2023 08:23:00	37.4	46.0	8.7	0.00	0.00	0.00	0.6	NW
7/5/2023 08:24:00	37.8	46.1	8.3	0.00	0.00	0.00	0.6	SSE
7/5/2023 08:25:00	38.2	46.2	8.0	0.00	0.00	0.00	0.6	NNE
7/5/2023 08:26:00	38.1	46.3	8.2	0.00	0.00	0.00	0.6	W
7/5/2023 08:27:00	38.5	45.9	7.5	0.00	0.00	0.00	0.6	W
7/5/2023 08:28:00	38.0	46.3	8.3	0.00	0.00	0.00	0.6	WNW
7/5/2023 08:29:00	38.3	42.6	4.4	0.00	0.01	0.00	0.6	WNW
7/5/2023 08:30:00	30.9	42.8	11.8	0.01	0.01	0.00	0.6	NE
7/5/2023 08:31:00	29.4	37.5	8.0	0.01	0.01	0.00	0.7	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 08:32:00	28.5	31.5	3.0	0.01	0.01	0.00	0.7	WNW
7/5/2023 08:33:00	28.3	28.1	-0.2	0.01	0.01	0.00	0.7	E
7/5/2023 08:34:00	26.9	27.3	0.4	0.01	0.01	0.00	0.7	W
7/5/2023 08:35:00	26.0	26.5	0.5	0.01	0.01	0.00	0.7	E
7/5/2023 08:36:00	25.4	26.2	0.8	0.01	0.01	0.00	0.7	E
7/5/2023 08:37:00	25.5	25.6	0.0	0.01	0.01	0.00	0.8	E
7/5/2023 08:38:00	25.4	24.9	-0.4	0.01	0.01	0.00	0.8	W
7/5/2023 08:39:00	24.8	24.5	-0.4	0.01	0.01	0.00	0.8	NE
7/5/2023 08:40:00	24.4	24.0	-0.5	0.01	0.01	0.00	0.8	E
7/5/2023 08:41:00	24.0	23.8	-0.2	0.01	0.01	0.00	0.7	N
7/5/2023 08:42:00	23.6	23.7	0.1	0.01	0.01	-0.01	0.7	NW
7/5/2023 08:43:00	23.4	23.2	-0.2	0.01	0.01	0.00	0.7	N
7/5/2023 08:44:00	22.9	23.1	0.2	0.01	0.00	-0.01	0.7	ESE
7/5/2023 08:45:00	22.8	22.6	-0.2	0.01	0.01	0.00	0.7	E
7/5/2023 08:46:00	22.3	22.3	0.1	0.01	0.00	-0.01	0.7	ESE
7/5/2023 08:47:00	22.0	22.0	0.0	0.01	0.01	0.00	0.6	E
7/5/2023 08:48:00	21.7	21.7	0.0	0.01	0.02	0.01	0.6	ENE
7/5/2023 08:49:00	21.2	21.4	0.2	0.01	0.02	0.01	0.6	E
7/5/2023 08:50:00	20.9	21.0	0.0	0.01	0.03	0.01	0.7	W
7/5/2023 08:51:00	20.3	20.7	0.4	0.02	0.03	0.01	0.7	WNW
7/5/2023 08:52:00	20.1	20.1	0.0	0.02	0.03	0.01	0.7	W
7/5/2023 08:53:00	19.9	19.8	-0.1	0.02	0.03	0.01	0.7	WSW
7/5/2023 08:54:00	19.6	19.4	-0.1	0.01	0.03	0.01	0.8	W
7/5/2023 08:55:00	19.4	19.0	-0.4	0.01	0.03	0.01	0.8	ESE
7/5/2023 08:56:00	19.0	20.4	1.3	0.01	0.03	0.01	0.8	WNW
7/5/2023 08:57:00	23.9	20.0	-3.9	0.01	0.03	0.01	0.8	N
7/5/2023 08:58:00	27.8	19.6	-8.2	0.01	0.03	0.01	0.8	ESE
7/5/2023 08:59:00	27.4	19.8	-7.7	0.01	0.03	0.01	0.8	E
7/5/2023 09:00:00	27.2	20.6	-6.6	0.01	0.03	0.01	0.8	ENE
7/5/2023 09:01:00	26.9	21.3	-5.7	0.01	0.03	0.02	0.8	ESE
7/5/2023 09:02:00	26.8	21.9	-4.9	0.01	0.02	0.02	0.8	E
7/5/2023 09:03:00	26.6	22.7	-4.0	0.01	0.02	0.01	0.8	E
7/5/2023 09:04:00	26.5	23.4	-3.1	0.01	0.01	0.01	0.8	E

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 09:05:00	26.6	24.0	-2.6	0.01	0.01	0.00	0.8	E
7/5/2023 09:06:00	27.2	24.1	-3.2	0.00	0.01	0.01	0.8	S
7/5/2023 09:07:00	27.7	25.2	-2.5	0.00	0.01	0.01	0.8	WNW
7/5/2023 09:08:00	28.2	30.5	2.3	0.00	0.01	0.01	0.8	WSW
7/5/2023 09:09:00	28.4	31.5	3.1	0.00	0.01	0.01	0.7	WNW
7/5/2023 09:10:00	28.7	31.4	2.7	0.00	0.01	0.01	0.7	N
7/5/2023 09:11:00	33.2	29.8	-3.4	0.00	0.01	0.01	0.7	NNE
7/5/2023 09:12:00	35.8	30.1	-5.7	0.00	0.01	0.01	0.7	E
7/5/2023 09:13:00	34.4	30.1	-4.3	0.00	0.01	0.01	0.7	NNW
7/5/2023 09:14:00	34.4	30.8	-3.6	0.00	0.01	0.01	0.7	WNW
7/5/2023 09:15:00	34.5	29.7	-4.8	0.00	0.01	0.00	0.7	E
7/5/2023 09:16:00	34.8	29.0	-5.8	0.00	0.00	0.00	0.6	SSE
7/5/2023 09:17:00	34.9	28.4	-6.5	0.00	0.00	0.00	0.6	ENE
7/5/2023 09:18:00	34.9	27.9	-7.1	0.00	0.00	0.00	0.6	E
7/5/2023 09:19:00	35.1	28.3	-6.8	0.00	0.00	0.00	0.7	ESE
7/5/2023 09:20:00	34.9	30.0	-4.9	0.00	0.00	0.00	0.6	ENE
7/5/2023 09:21:00	34.2	32.3	-1.9	0.00	0.00	0.00	0.6	ENE
7/5/2023 09:22:00				0.00	0.00	0.00	0.6	NE
7/5/2023 09:23:00				0.00	0.00	0.00	0.6	NNW
7/5/2023 09:24:00	13.8	20.7	6.9	0.00	0.00	0.00	0.6	NW
7/5/2023 09:25:00	28.8	19.6	-9.2	0.00	0.00	0.00	0.6	ENE
7/5/2023 09:26:00	80.4	18.4	-62.0	0.00	0.00	0.00	0.6	N
7/5/2023 09:27:00	79.8	18.6	-61.2	0.00	0.00	0.00	0.6	E
7/5/2023 09:28:00	79.5	18.7	-60.8	0.00	0.00	0.00	0.6	NNW
7/5/2023 09:29:00	79.3	19.3	-60.0	0.00	0.00	0.00	0.6	ENE
7/5/2023 09:30:00	79.1	20.4	-58.7	0.00	0.00	0.00	0.6	NNW
7/5/2023 09:31:00	79.0	21.1	-57.9	0.00	0.00	0.00	0.6	E
7/5/2023 09:32:00				0.00	0.00	0.00	0.6	NNE
7/5/2023 09:33:00	17.0	28.4	11.4	0.00	0.00	0.00	0.5	E
7/5/2023 09:34:00	21.7	21.4	-0.3	0.00	0.00	0.00	0.5	SSE
7/5/2023 09:35:00	19.2	23.0	3.8	0.00	0.00	0.00	0.5	NNW
7/5/2023 09:36:00	18.1	29.1	11.0	0.00	0.00	0.00	0.5	E
7/5/2023 09:37:00	17.5	31.9	14.4	0.00	0.00	0.00	0.5	NNW

Date/Time	Average Upwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Downwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Contribution PM10 ($\mu\text{g}/\text{m}^3$)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 09:38:00	16.8	34.7	17.8	0.00	0.00	0.00	0.5	NNE
7/5/2023 09:39:00	16.3	34.3	18.0	0.00	0.00	0.00	0.5	NE
7/5/2023 09:40:00	16.1	33.7	17.6	0.00	0.00	0.00	0.5	ENE
7/5/2023 09:41:00	17.8	32.4	14.6	0.00	0.00	0.00	0.5	SW
7/5/2023 09:42:00	19.4	33.2	13.8	0.00	0.00	0.00	0.5	ENE
7/5/2023 09:43:00	25.8	33.2	7.4	0.00	0.00	0.00	0.5	NNW
7/5/2023 09:44:00	57.6	32.8	-24.8	0.00	0.00	0.00	0.5	NW
7/5/2023 09:45:00	83.6	32.2	-51.4	0.00	0.00	0.00	0.5	ENE
7/5/2023 09:46:00	79.7	45.5	-34.1	0.00	0.00	0.00	0.5	ESE
7/5/2023 09:47:00	76.3	45.0	-31.3	0.00	0.00	0.00	0.5	ENE
7/5/2023 09:48:00	77.7	45.7	-32.0	0.00	0.00	0.00	0.5	W
7/5/2023 09:49:00	78.1	58.0	-20.1	0.00	0.00	0.00	0.5	SW
7/5/2023 09:50:00	80.6	61.0	-19.5	0.00	0.00	0.00	0.5	W
7/5/2023 09:51:00	81.2	60.4	-20.8	0.00	0.00	0.00	0.5	NNE
7/5/2023 09:52:00	81.7	57.7	-24.0	0.00	0.00	0.00	0.5	WSW
7/5/2023 09:53:00	80.9	55.7	-25.2	0.00	0.00	0.00	0.5	NNE
7/5/2023 09:54:00	80.0	54.6	-25.4	0.00	0.00	0.00	0.5	NNW
7/5/2023 09:55:00	79.1	53.8	-25.3	0.00	0.00	0.00	0.5	NNW
7/5/2023 09:56:00	77.0	54.2	-22.8	0.00	0.00	0.00	0.6	WNW
7/5/2023 09:57:00	76.0	53.4	-22.7	0.00	0.00	0.00	0.6	NNW
7/5/2023 09:58:00	70.6	52.3	-18.3	0.00	0.00	0.00	0.6	NNW
7/5/2023 09:59:00	45.2	51.9	6.7	0.00	0.00	0.00	0.6	NW
7/5/2023 10:00:00	20.5	71.2	50.8	0.00	0.00	0.00	0.6	SSW
7/5/2023 10:01:00	26.0	59.1	33.1	0.00	0.00	0.00	0.6	NW
7/5/2023 10:02:00	25.9	62.4	36.5	0.00	0.00	0.00	0.6	SW
7/5/2023 10:03:00	24.6	63.4	38.8	0.00	0.00	0.00	0.6	WNW
7/5/2023 10:04:00	28.5	51.3	22.9	0.00	0.00	0.00	0.6	WNW
7/5/2023 10:05:00	29.4	50.4	21.0	0.00	0.00	0.00	0.6	NW
7/5/2023 10:06:00	30.8	51.3	20.5	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:07:00	31.8	52.9	21.1	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:08:00	33.3	54.1	20.8	0.00	0.00	0.00	0.6	SSW
7/5/2023 10:09:00	35.5	54.4	18.9	0.00	0.00	0.00	0.7	N
7/5/2023 10:10:00	37.7	55.4	17.7	0.00	0.00	0.00	0.7	N

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 10:11:00	39.9	57.3	17.4	0.00	0.00	0.00	0.7	SE
7/5/2023 10:12:00	42.1	56.5	14.5	0.00	0.00	0.00	0.7	E
7/5/2023 10:13:00	42.8	58.5	15.8	0.00	0.00	0.00	0.7	SSW
7/5/2023 10:14:00	42.2	59.5	17.3	0.00	0.00	0.00	0.7	SW
7/5/2023 10:15:00	42.0	40.9	-1.1	0.00	0.00	0.00	0.7	SSW
7/5/2023 10:16:00	35.8	40.5	4.7	0.00	0.00	0.00	0.7	SSW
7/5/2023 10:17:00	35.1	36.7	1.6	0.00	0.00	0.00	0.7	SSW
7/5/2023 10:18:00	34.8	34.9	0.1	0.00	0.00	0.00	0.7	SW
7/5/2023 10:19:00	29.9	35.5	5.6	0.00	0.00	0.00	0.7	WSW
7/5/2023 10:20:00	27.4	33.4	6.0	0.00	0.00	0.00	0.7	WNW
7/5/2023 10:21:00	25.9	31.8	5.9	0.00	0.01	0.01	0.7	SSW
7/5/2023 10:22:00	24.7	31.8	7.0	0.00	0.01	0.01	0.7	SE
7/5/2023 10:23:00	24.4	31.2	6.8	0.00	0.01	0.01	0.7	W
7/5/2023 10:24:00	23.4	31.7	8.3	0.00	0.01	0.01	0.6	SW
7/5/2023 10:25:00	23.0	30.8	7.7	0.00	0.01	0.01	0.6	NW
7/5/2023 10:26:00	22.1	29.0	6.9	0.00	0.01	0.01	0.6	W
7/5/2023 10:27:00	19.7	29.7	10.0	0.00	0.01	0.01	0.6	WSW
7/5/2023 10:28:00	19.7	28.7	8.9	0.00	0.01	0.01	0.6	WSW
7/5/2023 10:29:00	19.6	28.0	8.4	0.00	0.01	0.01	0.6	W
7/5/2023 10:30:00	20.0	26.7	6.7	0.00	0.01	0.01	0.6	NW
7/5/2023 10:31:00	20.5	25.7	5.2	0.00	0.01	0.01	0.6	NW
7/5/2023 10:32:00	20.5	25.5	4.9	0.00	0.00	0.01	0.6	SE
7/5/2023 10:33:00	20.6	25.3	4.7	0.00	0.00	0.00	0.6	SW
7/5/2023 10:34:00	21.1	24.6	3.4	0.00	0.00	0.00	0.5	NW
7/5/2023 10:35:00	21.0	23.9	3.0	0.00	0.00	0.00	0.5	NNW
7/5/2023 10:36:00	21.0	23.1	2.1	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:37:00	21.1	22.3	1.2	0.00	0.00	0.00	0.6	NW
7/5/2023 10:38:00	21.4	21.5	0.1	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:39:00	21.7	20.6	-1.1	0.00	0.00	0.00	0.6	NW
7/5/2023 10:40:00	20.8	21.1	0.3	0.00	0.00	0.00	0.6	ESE
7/5/2023 10:41:00	21.5	20.1	-1.4	0.00	0.00	0.00	0.6	ENE
7/5/2023 10:42:00	21.2	20.0	-1.2	0.00	0.00	0.00	0.6	WSW
7/5/2023 10:43:00	21.8	18.9	-2.9	0.00	0.00	0.00	0.7	ENE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 10:44:00	21.6	19.0	-2.6	0.00	0.00	0.00	0.7	SE
7/5/2023 10:45:00	20.8	19.5	-1.3	0.00	0.00	0.00	0.7	SE
7/5/2023 10:46:00	20.5	19.4	-1.1	0.00	0.00	0.00	0.7	NNW
7/5/2023 10:47:00	20.5	19.3	-1.2	0.00	0.00	0.00	0.7	SW
7/5/2023 10:48:00	20.6	19.2	-1.5	0.00	0.00	0.00	0.7	SW
7/5/2023 10:49:00	20.0	19.6	-0.4	0.00	0.00	0.00	0.7	SE
7/5/2023 10:50:00	20.1	19.7	-0.3	0.00	0.00	0.00	0.7	NW
7/5/2023 10:51:00	20.2	19.9	-0.4	0.00	0.00	0.00	0.7	NW
7/5/2023 10:52:00	20.4	20.2	-0.2	0.00	0.00	0.00	0.6	NW
7/5/2023 10:53:00	20.5	20.4	-0.1	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:54:00	20.6	20.8	0.2	0.00	0.00	0.00	0.6	NNW
7/5/2023 10:55:00	21.1	21.9	0.8	0.00	0.00	0.00	0.7	NNW
7/5/2023 10:56:00	20.7	22.9	2.2	0.00	0.00	0.00	0.7	WNW
7/5/2023 10:57:00	21.2	22.7	1.4	0.00	0.00	0.00	0.7	W
7/5/2023 10:58:00	21.0	23.0	1.9	0.00	0.00	0.00	0.7	NNW
7/5/2023 10:59:00	21.7	22.2	0.5	0.00	0.00	0.00	0.7	NNW
7/5/2023 11:00:00	22.5	21.7	-0.8	0.00	0.00	0.00	0.7	NW
7/5/2023 11:01:00	22.0	22.3	0.3	0.00	0.00	0.00	0.7	SW
7/5/2023 11:02:00	22.5	21.7	-0.8	0.00	0.00	0.00	0.7	NNW
7/5/2023 11:03:00	22.2	21.6	-0.6	0.00	0.00	0.00	0.7	SSW
7/5/2023 11:04:00				0.00	0.00	0.00	0.8	SW
7/5/2023 11:05:00				0.00	0.00	0.00	0.8	SSE
7/5/2023 11:06:00	13.5	20.3	6.8	0.00	0.00	0.00	0.7	WNW
7/5/2023 11:07:00	16.8	16.8	0.0	0.00	0.00	0.00	0.8	NW
7/5/2023 11:08:00	17.8	16.3	-1.6	0.00	0.00	0.00	0.8	NW
7/5/2023 11:09:00	17.2	17.2	0.0	0.00	0.00	0.00	0.8	W
7/5/2023 11:10:00	16.9	17.9	1.0	0.00	0.00	0.00	0.7	WSW
7/5/2023 11:11:00	18.8	18.3	-0.5	0.00	0.00	0.00	0.7	W
7/5/2023 11:12:00	18.8	19.4	0.7	0.00	0.00	0.00	0.7	NW
7/5/2023 11:13:00	18.8	19.1	0.3	0.00	0.00	0.00	0.7	W
7/5/2023 11:14:00	19.0	18.9	-0.1	0.00	0.00	0.00	0.7	WSW
7/5/2023 11:15:00	18.8	18.8	0.0	0.00	0.00	0.00	0.7	WSW
7/5/2023 11:16:00	18.7	18.4	-0.2	0.00	0.00	0.00	0.7	WNW

Date/Time	Average Upwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Downwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Contribution PM10 ($\mu\text{g}/\text{m}^3$)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 11:17:00	18.4	18.2	-0.2	0.00	0.00	0.00	0.7	WNW
7/5/2023 11:18:00	18.0	17.9	-0.1	0.00	0.00	0.00	0.8	SSW
7/5/2023 11:19:00	17.5	17.6	0.1	0.00	0.00	0.00	0.8	SW
7/5/2023 11:20:00	17.2	17.6	0.4	0.00	0.00	0.00	0.8	SW
7/5/2023 11:21:00	17.1	17.9	0.8	0.00	0.00	0.00	0.8	WSW
7/5/2023 11:22:00	16.9	17.9	1.0	0.00	0.00	0.00	0.8	NNW
7/5/2023 11:23:00	16.7	18.0	1.3	0.00	0.00	0.00	0.8	WNW
7/5/2023 11:24:00	16.9	17.6	0.7	0.00	0.00	0.00	0.8	ESE
7/5/2023 11:25:00	17.0	17.2	0.2	0.00	0.00	0.00	0.8	S
7/5/2023 11:26:00	15.9	17.0	1.1	0.00	0.00	0.00	0.8	S
7/5/2023 11:27:00	15.4	20.5	5.1	0.00	0.00	0.00	0.8	WNW
7/5/2023 11:28:00	21.0	20.4	-0.6	0.00	0.00	0.00	0.8	E
7/5/2023 11:29:00	20.6	22.5	1.9	0.00	0.00	0.00	0.8	S
7/5/2023 11:30:00	20.5	24.0	3.5	0.00	0.00	0.00	0.8	SW
7/5/2023 11:31:00	20.4	26.3	5.8	0.00	0.00	0.00	0.8	SW
7/5/2023 11:32:00	20.4	27.5	7.0	0.00	0.00	0.00	0.7	ESE
7/5/2023 11:33:00	20.5	27.5	7.0	0.00	0.00	0.00	0.7	SSE
7/5/2023 11:34:00	20.6	29.4	8.8	0.00	0.00	0.00	0.7	WSW
7/5/2023 11:35:00	20.6	32.4	11.8	0.00	0.00	0.00	0.7	SW
7/5/2023 11:36:00	20.5	31.6	11.1	0.00	0.00	0.00	0.7	SSE
7/5/2023 11:37:00	20.1	31.7	11.6	0.00	0.00	0.00	0.7	WSW
7/5/2023 11:38:00	19.7	31.8	12.1	0.00	0.00	0.00	0.6	SW
7/5/2023 11:39:00	19.2	32.1	12.9	0.00	0.00	0.00	0.6	SE
7/5/2023 11:40:00	18.8	32.7	13.9	0.00	0.00	0.00	0.6	WSW
7/5/2023 11:41:00	18.7	32.8	14.1	0.00	0.00	0.00	0.6	WSW
7/5/2023 11:42:00	18.6	28.5	9.9	0.00	0.00	0.00	0.6	SSW
7/5/2023 11:43:00	12.4	28.4	16.0	0.00	0.00	0.00	0.6	WSW
7/5/2023 11:44:00	12.3	26.2	13.9	0.00	0.00	0.00	0.6	WSW
7/5/2023 11:45:00	12.0	24.5	12.6	0.00	0.00	0.00	0.6	W
7/5/2023 11:46:00	12.0	22.4	10.4	0.00	0.00	0.00	0.6	WNW
7/5/2023 11:47:00	11.9	21.2	9.3	0.00	0.00	0.00	0.6	W
7/5/2023 11:48:00	11.7	21.2	9.5	0.00	0.00	0.00	0.6	WSW
7/5/2023 11:49:00	11.7	19.3	7.7	0.00	0.00	0.00	0.6	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 11:50:00	11.6	16.2	4.6	0.00	0.00	0.00	0.5	SSW
7/5/2023 11:51:00	11.8	15.9	4.1	0.00	0.00	0.00	0.5	ESE
7/5/2023 11:52:00	11.9	15.9	4.0	0.00	0.00	0.00	0.5	SSE
7/5/2023 11:53:00	12.2	15.9	3.7	0.00	0.00	0.00	0.5	ESE
7/5/2023 11:54:00	12.7	15.6	2.9	0.00	0.00	0.00	0.6	SE
7/5/2023 11:55:00	13.1	15.1	1.9	0.01	0.00	-0.01	0.5	SSE
7/5/2023 11:56:00	13.7	14.8	1.2	0.01	0.00	-0.01	0.6	S
7/5/2023 11:57:00	13.9	15.0	1.1	0.01	0.00	-0.01	0.6	E
7/5/2023 11:58:00	13.9	14.9	1.0	0.01	0.00	-0.01	0.6	S
7/5/2023 11:59:00	13.9	14.8	0.9	0.01	0.00	-0.01	0.7	W
7/5/2023 12:00:00	14.0	14.5	0.5	0.01	0.00	-0.01	0.7	SSW
7/5/2023 12:01:00	13.9	14.2	0.4	0.01	0.00	-0.01	0.7	SW
7/5/2023 12:02:00	13.8	14.0	0.2	0.01	0.00	-0.01	0.7	ESE
7/5/2023 12:03:00	14.0	13.6	-0.4	0.00	0.00	-0.01	0.7	E
7/5/2023 12:04:00	14.1	13.2	-0.9	0.00	0.00	-0.01	0.8	E
7/5/2023 12:05:00	14.4	12.8	-1.5	0.00	0.00	0.00	0.8	ESE
7/5/2023 12:06:00	14.5	12.7	-1.8	0.00	0.00	0.00	0.8	ESE
7/5/2023 12:07:00	14.3	12.8	-1.5	0.00	0.00	0.00	0.8	SSW
7/5/2023 12:08:00	14.0	12.5	-1.4	0.00	0.00	0.00	0.8	SSW
7/5/2023 12:09:00	13.5	12.3	-1.2	0.00	0.00	0.00	0.8	SW
7/5/2023 12:10:00	13.0	12.1	-0.9	0.00	0.00	0.00	0.8	SSW
7/5/2023 12:11:00	12.6	11.9	-0.7	0.00	0.00	0.00	0.8	E
7/5/2023 12:12:00	12.5	11.5	-1.0	0.00	0.00	0.00	0.8	ESE
7/5/2023 12:13:00	12.6	11.3	-1.3	0.00	0.00	0.00	0.8	ENE
7/5/2023 12:14:00	12.6	11.3	-1.3	0.00	0.00	0.00	0.8	S
7/5/2023 12:15:00	12.4	11.3	-1.1	0.00	0.00	0.00	0.8	S
7/5/2023 12:16:00	12.1	11.4	-0.8	0.00	0.00	0.00	0.8	ESE
7/5/2023 12:17:00	12.0	11.4	-0.6	0.00	0.00	0.00	0.9	S
7/5/2023 12:18:00	11.7	11.7	0.0	0.00	0.01	0.01	0.9	SE
7/5/2023 12:19:00	11.4	12.0	0.6	0.00	0.01	0.00	0.9	SW
7/5/2023 12:20:00	11.0	12.2	1.2	0.00	0.01	0.00	0.9	SSE
7/5/2023 12:21:00	10.6	12.5	1.9	0.00	0.01	0.00	1.0	SE
7/5/2023 12:22:00	10.6	12.4	1.8	0.00	0.01	0.00	1.0	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 12:23:00	10.9	12.2	1.4	0.00	0.01	0.00	1.0	ESE
7/5/2023 12:24:00	10.9	12.3	1.4	0.00	0.01	0.00	1.1	S
7/5/2023 12:25:00	10.9	12.4	1.5	0.00	0.01	0.00	1.2	SE
7/5/2023 12:26:00	10.7	12.5	1.8	0.00	0.01	0.00	1.2	S
7/5/2023 12:27:00	10.8	12.3	1.6	0.00	0.01	0.00	1.3	ESE
7/5/2023 12:28:00	10.5	12.4	1.9	0.00	0.01	0.00	1.3	SSE
7/5/2023 12:29:00	10.4	12.3	1.9	0.00	0.01	0.00	1.3	ESE
7/5/2023 12:30:00	10.6	12.1	1.5	0.00	0.01	0.00	1.4	E
7/5/2023 12:31:00	10.5	12.1	1.6	0.00	0.01	0.00	1.4	SSW
7/5/2023 12:32:00	10.4	12.3	1.9	0.00	0.00	0.00	1.4	SSE
7/5/2023 12:33:00	10.4	13.0	2.6	0.00	0.00	0.00	1.4	SW
7/5/2023 12:34:00	10.4	12.9	2.6	0.00	0.00	0.00	1.4	SE
7/5/2023 12:35:00	10.4	12.9	2.5	0.00	0.00	0.00	1.4	S
7/5/2023 12:36:00	10.5	13.2	2.8	0.00	0.00	0.00	1.3	ESE
7/5/2023 12:37:00	10.4	13.3	2.9	0.00	0.00	0.00	1.3	SSW
7/5/2023 12:38:00	10.1	13.6	3.5	0.00	0.00	0.00	1.4	ESE
7/5/2023 12:39:00	10.2	18.9	8.7	0.00	0.00	0.00	1.3	SSE
7/5/2023 12:40:00	10.3	27.2	16.9	0.00	0.00	0.00	1.3	SSE
7/5/2023 12:41:00	10.4	31.4	21.0	0.00	0.00	0.00	1.3	S
7/5/2023 12:42:00	10.2	33.4	23.2	0.00	0.00	0.00	1.3	S
7/5/2023 12:43:00	10.3	34.3	24.0	0.00	0.00	0.00	1.3	SSE
7/5/2023 12:44:00	10.4	35.1	24.7	0.00	0.00	0.00	1.3	S
7/5/2023 12:45:00	10.2	35.6	25.4	0.00	0.00	0.01	1.4	SE
7/5/2023 12:46:00	10.2	35.9	25.7	0.00	0.01	0.01	1.4	SE
7/5/2023 12:47:00	10.4	35.9	25.5	0.00	0.01	0.01	1.4	S
7/5/2023 12:48:00	10.8	35.4	24.6	0.00	0.01	0.01	1.4	WSW
7/5/2023 12:49:00	11.2	36.8	25.6	0.00	0.01	0.01	1.3	S
7/5/2023 12:50:00	12.1	37.9	25.7	0.00	0.01	0.01	1.2	SW
7/5/2023 12:51:00	12.8	38.0	25.2	0.00	0.01	0.01	1.2	SE
7/5/2023 12:52:00	13.2	38.1	24.9	0.00	0.01	0.01	1.2	SSW
7/5/2023 12:53:00	13.6	38.3	24.7	0.00	0.01	0.01	1.1	S
7/5/2023 12:54:00	14.0	33.3	19.3	0.00	0.01	0.01	1.1	ESE
7/5/2023 12:55:00	14.2	25.1	10.9	0.00	0.00	0.01	1.1	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 12:56:00	14.8	20.9	6.1	0.00	0.00	0.00	1.0	E
7/5/2023 12:57:00	16.1	19.1	3.0	0.00	0.00	0.00	1.1	ESE
7/5/2023 12:58:00	16.5	18.8	2.2	0.00	0.00	0.00	1.1	SSE
7/5/2023 12:59:00	17.4	18.0	0.6	0.00	0.00	0.00	1.0	NE
7/5/2023 13:00:00	17.6	22.0	4.4	0.00	0.00	0.00	1.0	W
7/5/2023 13:01:00	17.8	23.4	5.6	0.00	0.00	0.00	0.9	SSW
7/5/2023 13:02:00	18.4	23.9	5.5	0.00	0.00	0.00	1.0	SSE
7/5/2023 13:03:00	18.5	24.0	5.5	0.00	0.00	0.00	1.0	NNE
7/5/2023 13:04:00	18.4	22.8	4.3	0.00	0.00	0.00	1.0	SSE
7/5/2023 13:05:00	18.0	21.8	3.8	0.00	0.00	0.00	1.0	WSW
7/5/2023 13:06:00	18.1	21.7	3.6	0.01	0.00	0.00	1.1	S
7/5/2023 13:07:00	19.0	21.9	3.0	0.01	0.00	0.00	1.1	SE
7/5/2023 13:08:00	19.9	22.2	2.4	0.01	0.00	0.00	1.1	SSE
7/5/2023 13:09:00	20.0	22.5	2.6	0.01	0.00	0.00	1.1	NW
7/5/2023 13:10:00	20.3	22.7	2.5	0.01	0.00	0.00	1.1	W
7/5/2023 13:11:00	20.1	23.0	2.9	0.01	0.00	0.00	1.0	S
7/5/2023 13:12:00	19.3	23.5	4.2	0.01	0.00	0.00	0.9	SW
7/5/2023 13:13:00	19.2	23.2	4.0	0.01	0.00	0.00	0.9	W
7/5/2023 13:14:00	18.7	23.7	4.9	0.01	0.00	0.00	0.9	S
7/5/2023 13:15:00	19.2	28.6	9.4	0.00	0.00	0.00	0.9	SE
7/5/2023 13:16:00	20.0	34.4	14.4	0.00	0.00	0.00	0.9	SE
7/5/2023 13:17:00	20.7	36.4	15.7	0.00	0.00	0.00	0.9	SE
7/5/2023 13:18:00	23.6	37.6	14.1	0.01	0.00	-0.01	0.9	E
7/5/2023 13:19:00	25.3	38.9	13.6	0.01	0.00	-0.01	0.8	NW
7/5/2023 13:20:00	26.3	41.1	14.8	0.01	0.00	0.00	0.8	NE
7/5/2023 13:21:00	27.2	43.4	16.3	0.01	0.00	0.00	0.8	WNW
7/5/2023 13:22:00	27.6	45.4	17.8	0.01	0.00	0.00	0.7	NNW
7/5/2023 13:23:00	28.6	46.2	17.6	0.01	0.00	0.00	0.7	W
7/5/2023 13:24:00	30.3	47.0	16.7	0.01	0.00	0.00	0.7	SW
7/5/2023 13:25:00	31.6	49.8	18.3	0.01	0.01	0.00	0.7	ENE
7/5/2023 13:26:00	32.8	52.7	19.8	0.01	0.01	0.00	0.7	NNW
7/5/2023 13:27:00	34.1	55.2	21.0	0.01	0.01	0.00	0.7	ENE
7/5/2023 13:28:00	35.5	57.5	22.0	0.01	0.01	0.00	0.7	WNW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 13:29:00				0.01	0.01	0.00	0.7	E
7/5/2023 13:30:00				0.01	0.01	0.00	0.7	WSW
7/5/2023 13:31:00	32.5	0.0	-32.5	0.01	0.01	0.00	0.7	SW
7/5/2023 13:32:00	31.6	0.0	-31.6	0.01	0.01	0.00	0.7	SSE
7/5/2023 13:33:00	31.4	0.0	-31.4	0.01	0.01	0.00	0.7	SSE
7/5/2023 13:34:00	31.2	0.0	-31.2	0.01	0.01	0.01	0.8	S
7/5/2023 13:35:00	31.4	0.0	-31.4	0.04	0.01	-0.03	0.8	S
7/5/2023 13:36:00	31.2	0.0	-31.2	0.08	0.01	-0.07	0.9	S
7/5/2023 13:37:00	31.2	0.0	-31.2	0.09	0.01	-0.09	0.9	SSW
7/5/2023 13:38:00	31.1	0.0	-31.1	0.09	0.01	-0.09	0.8	SSE
7/5/2023 13:39:00	31.0	0.0	-31.0	0.09	0.01	-0.09	0.9	ESE
7/5/2023 13:40:00	30.9	0.0	-30.9	0.09	0.01	-0.09	0.9	ENE
7/5/2023 13:41:00	30.8	0.0	-30.8	0.09	0.00	-0.09	0.9	W
7/5/2023 13:42:00	30.8	0.0	-30.8	0.09	0.00	-0.09	0.9	ENE
7/5/2023 13:43:00	30.7	0.0	-30.7	0.09	0.00	-0.09	0.9	E
7/5/2023 13:44:00	30.6	0.0	-30.6	0.09	0.00	-0.09	1.0	E
7/5/2023 13:45:00	30.4	0.0	-30.4	0.09	0.00	-0.09	1.0	SE
7/5/2023 13:46:00	30.1	0.0	-30.1	0.09	0.00	-0.09	1.0	E
7/5/2023 13:47:00	30.0	0.0	-30.0	0.09	0.00	-0.09	1.1	WSW
7/5/2023 13:48:00	30.0	0.0	-30.0	0.09	0.00	-0.09	1.1	NNW
7/5/2023 13:49:00	30.3	0.0	-30.3	0.09	0.00	-0.09	1.0	SW
7/5/2023 13:50:00	30.5	0.0	-30.5	0.06	0.00	-0.06	1.0	SW
7/5/2023 13:51:00	30.5	0.0	-30.5	0.01	0.00	-0.01	0.9	ESE
7/5/2023 13:52:00	30.3	0.0	-30.3	0.00	0.00	0.00	0.9	SSW
7/5/2023 13:53:00	30.2	0.0	-30.2	0.00	0.00	0.00	0.9	SSW
7/5/2023 13:54:00	30.2	0.0	-30.2	0.00	0.00	0.00	0.9	SE
7/5/2023 13:55:00	30.3	0.0	-30.3	0.00	0.00	0.00	1.0	SSE
7/5/2023 13:56:00	30.2	0.0	-30.2	0.00	0.00	0.00	1.0	NE
7/5/2023 13:57:00	30.2	0.0	-30.2	0.00	0.00	0.00	0.9	S
7/5/2023 13:58:00	30.4	0.0	-30.4	0.00	0.00	0.00	0.9	NE
7/5/2023 13:59:00	30.5	0.0	-30.5	0.00	0.00	0.00	0.9	SE
7/5/2023 14:00:00	30.5	0.0	-30.5	0.00	0.00	0.00	0.9	ENE
7/5/2023 14:01:00	30.4	0.0	-30.4	0.00	0.00	0.00	0.9	SE

Date/Time	Average Upwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Downwind PM10 ($\mu\text{g}/\text{m}^3$)	Average Contribution PM10 ($\mu\text{g}/\text{m}^3$)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 14:02:00	30.3	0.0	-30.3	0.00	0.00	0.00	0.9	E
7/5/2023 14:03:00	30.1	0.0	-30.1	0.00	0.00	0.00	1.0	ESE
7/5/2023 14:04:00	29.7	0.0	-29.7	0.00	0.00	0.00	1.0	N
7/5/2023 14:05:00	29.3	0.0	-29.3	0.00	0.00	0.00	1.0	ENE
7/5/2023 14:06:00	29.1	0.0	-29.1	0.00	0.00	0.00	1.0	E
7/5/2023 14:07:00	28.8	0.0	-28.9	0.00	0.00	0.00	1.0	ESE
7/5/2023 14:08:00	28.6	0.0	-28.6	0.00	0.00	0.00	1.0	SSW
7/5/2023 14:09:00	28.5	0.0	-28.6	0.00	0.00	0.00	1.0	SSW
7/5/2023 14:10:00	28.4	0.0	-28.4	0.00	0.00	0.00	1.0	S
7/5/2023 14:11:00	28.5	0.0	-28.5	0.00	0.00	0.00	1.0	SE
7/5/2023 14:12:00	28.3	0.0	-28.3	0.00	0.00	0.00	1.0	S
7/5/2023 14:13:00	28.0	0.0	-28.1	0.00	0.00	0.00	1.0	NNE
7/5/2023 14:14:00	28.1	0.0	-28.1	0.00	0.00	0.00	1.0	E
7/5/2023 14:15:00	28.2	0.0	-28.1	0.00	0.00	0.00	1.0	SSW
7/5/2023 14:16:00	28.3	0.0	-28.3	0.00	0.00	0.00	0.9	WNW
7/5/2023 14:17:00	28.4	0.0	-28.4	0.00	0.00	0.00	0.9	S
7/5/2023 14:18:00	28.4	0.0	-28.4	0.00	0.00	0.00	0.9	WNW
7/5/2023 14:19:00	28.3	0.0	-28.3	0.00	0.00	0.00	0.9	WSW
7/5/2023 14:20:00	28.1	0.0	-28.1	0.00	0.00	0.00	0.9	WSW
7/5/2023 14:21:00	28.2	0.0	-28.2	0.00	0.00	0.00	0.9	S
7/5/2023 14:22:00	28.2	0.0	-28.2	0.00	0.00	0.00	0.9	NNW
7/5/2023 14:23:00	28.2	0.0	-28.2	0.00	0.00	0.00	0.9	SW
7/5/2023 14:24:00	28.1	0.0	-28.1	0.00	0.00	0.00	0.9	SE
7/5/2023 14:25:00	28.2	0.0	-28.2	0.00	0.00	0.00	0.9	SSW
7/5/2023 14:26:00	28.1	0.0	-28.1	0.00	0.00	0.00	0.9	W
7/5/2023 14:27:00	28.1	0.0	-28.1	0.00	0.00	0.00	0.9	SSE
7/5/2023 14:28:00	27.8	0.0	-27.8	0.00	0.00	0.00	0.9	S
7/5/2023 14:29:00	27.5	0.0	-27.6	0.00	0.00	0.00	0.9	SW
7/5/2023 14:30:00	27.5	0.0	-27.5	0.00	0.00	0.00	0.9	WSW
7/5/2023 14:31:00	27.3	0.0	-27.3	0.00	0.00	0.00	0.9	SSW
7/5/2023 14:32:00	26.8	0.0	-26.8	0.00	0.00	0.00	0.8	SSE
7/5/2023 14:33:00	26.5	0.0	-26.5	0.00	0.00	0.00	0.8	SW
7/5/2023 14:34:00	26.2	0.0	-26.3	0.00	0.00	0.00	0.8	SE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 14:35:00	26.0	0.0	-26.0	0.00	0.00	0.00	0.8	SSW
7/5/2023 14:36:00	25.6	0.0	-25.6	0.00	0.00	0.00	0.8	SSW
7/5/2023 14:37:00	25.4	0.0	-25.4	0.00	0.00	0.00	0.8	S
7/5/2023 14:38:00	25.1	0.0	-25.1	0.00	0.00	0.00	0.8	SW
7/5/2023 14:39:00	24.7	0.0	-24.7	0.00	0.00	0.00	0.8	E
7/5/2023 14:40:00	24.5	0.0	-24.5	0.00	0.00	0.00	0.8	SE
7/5/2023 14:41:00	24.3	0.0	-24.3	0.00	0.00	0.00	0.9	SSW
7/5/2023 14:42:00	24.1	0.0	-24.1	0.00	0.00	0.00	0.9	SSW
7/5/2023 14:43:00	23.9	0.0	-23.9	0.00	0.00	0.00	0.8	NNW
7/5/2023 14:44:00	23.6	0.0	-23.6	0.00	0.00	0.00	0.8	SW
7/5/2023 14:45:00	23.6	0.0	-23.6	0.00	0.00	0.00	0.8	S
7/5/2023 14:46:00	23.7	0.0	-23.7	0.00	0.00	0.00	0.8	E
7/5/2023 14:47:00	24.1	0.0	-24.1	0.00	0.00	0.00	0.8	NE
7/5/2023 14:48:00	24.5	0.0	-24.5	0.00	0.00	0.00	0.8	S
7/5/2023 14:49:00	24.7	0.0	-24.7	0.00	0.00	0.00	0.8	NE
7/5/2023 14:50:00	24.7	0.0	-24.8	0.00	0.00	0.00	0.8	SE
7/5/2023 14:51:00	24.9	0.0	-24.9	0.00	0.00	0.00	0.8	S
7/5/2023 14:52:00	26.0	0.0	-26.0	0.00	0.00	0.00	0.8	E
7/5/2023 14:53:00	26.4	0.0	-26.4	0.00	0.00	0.00	0.8	WSW
7/5/2023 14:54:00	27.2	0.0	-27.2	0.00	0.00	0.00	0.7	WNW
7/5/2023 14:55:00	27.0	0.0	-27.0	0.00	0.00	0.00	0.8	WSW
7/5/2023 14:56:00	26.8	0.0	-26.8	0.00	0.00	0.00	0.7	S
7/5/2023 14:57:00	26.7	0.0	-26.7	0.00	0.00	0.00	0.7	WNW
7/5/2023 14:58:00	26.7	0.0	-26.7	0.00	0.00	0.00	0.7	WSW
7/5/2023 14:59:00	26.8	0.0	-26.8	0.00	0.00	0.00	0.7	SSW
7/5/2023 15:00:00	26.5	0.0	-26.5	0.00	0.00	0.00	0.7	E
7/5/2023 15:01:00	26.3	0.0	-26.3	0.00	0.00	0.00	0.7	WSW
7/5/2023 15:02:00	25.8	0.0	-25.8	0.00	0.00	0.00	0.7	NNW
7/5/2023 15:03:00	25.2	0.0	-25.3	0.00	0.00	0.00	0.7	NNE
7/5/2023 15:04:00	24.9	0.0	-24.9	0.00	0.00	0.00	0.7	WNW
7/5/2023 15:05:00	24.8	0.0	-24.8	0.00	0.00	0.00	0.7	NW
7/5/2023 15:06:00	24.6	0.0	-24.6	0.00	0.00	0.00	0.6	ESE
7/5/2023 15:07:00	23.5	0.0	-23.5	0.00	0.00	0.00	0.6	NE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
7/5/2023 15:08:00	23.5	0.0	-23.6	0.00	0.00	0.00	0.6	ESE
7/5/2023 15:09:00	23.7	0.0	-23.7	0.00	0.00	0.00	0.6	SE
7/5/2023 15:10:00	23.9	0.0	-23.9	0.00	0.00	0.00	0.6	SSE
7/5/2023 15:11:00	23.8	0.0	-23.8	0.00	0.00	0.00	0.6	SSW
7/5/2023 15:12:00	23.9	0.0	-23.9	0.00	0.00	0.00	0.6	ENE
7/5/2023 15:13:00	24.0	0.0	-24.0	0.00	0.00	0.00	0.7	ESE
7/5/2023 15:14:00	23.9	0.0	-23.9	0.00	0.00	0.00	0.7	S
7/5/2023 15:15:00	23.7	0.0	-23.7	0.00	0.00	0.00	0.7	SE
7/5/2023 15:16:00	23.5	0.0	-23.5	0.00	0.00	0.00	0.8	W
7/5/2023 15:17:00	23.4	0.0	-23.4	0.00	0.00	0.00	0.8	SSE
7/5/2023 15:18:00	23.5	0.0	-23.5	0.00	0.00	0.00	0.9	ESE
7/5/2023 15:19:00	23.4	0.0	-23.4	0.00	0.00	0.00	0.9	E
7/5/2023 15:20:00	23.2	0.0	-23.2	0.00	0.00	0.00	1.0	NE
7/5/2023 15:21:00	23.1	0.0	-23.1	0.00	0.00	0.00	1.0	NNE
7/5/2023 15:22:00	22.9	0.0	-22.9	0.00	0.00	0.00	1.0	NNE

For Release: Wednesday, July 5, 2023

Air Quality Health Advisory Issued for New York City Metro and Long Island Regions In Effect for Wednesday, July 5, 2023

New York State Department of Environmental Conservation (DEC) Commissioner Basil Seggos and State Department of Health (DOH) Commissioner Dr. James McDonald issued an Air Quality Health Advisory for the **New York City Metro and Long Island regions for Wednesday, July 5, 2023**.

The pollutants of concern are:

- **Ozone for New York City Metro and Long Island Regions**
- **Fine Particulate Matter for New York City Metro Region**

The advisory will be in effect **11:00 a.m. through 11:00 p.m.**

Elevated levels of fine particulate matter (PM2.5) pollution were recorded primarily due to fireworks displays causing temporary spikes of PM2.5, not the Canadian wildfires.

DEC and DOH issue Air Quality Health Advisories when DEC meteorologists predict levels of pollution, either ozone or fine particulate matter (PM2.5) are expected to exceed an Air Quality Index (AQI) value of 100. The AQI was created as an easy way to correlate levels of different pollutants to one scale, with a higher AQI value indicating a greater health concern.

OZONE

Summer heat can lead to the formation of ground-level ozone, a major component of photochemical smog. Automobile exhaust and out-of-state emission sources are the primary sources of ground-level ozone and are the most serious air pollution problems in the northeast. This surface pollutant should not be confused with the protective layer of ozone in the upper atmosphere.

Ozone and PM2.5 are two different pollutants that form in different ways: PM2.5 is often produced directly as smoke from wildfires and other sources of small particles emitted into the air.

Ozone is not a direct emission, and is produced indirectly when sunlight chemically reacts with nitrogen oxides (NOx) and volatile organic compounds (VOCs) from automobile exhaust and industrial emissions. High ozone isn't as visible as PM2.5 because it's a colorless gas, but it will produce hazy skies and reduce visibility in high concentrations.

People, especially young children, those who exercise outdoors, those involved in vigorous outdoor work and those who have respiratory disease (such as asthma) should consider limiting strenuous outdoor physical activity when ozone levels are the highest (generally afternoon to early evening). When outdoor levels of ozone are elevated, going indoors will usually reduce your exposure. Individuals experiencing symptoms such as shortness of breath, chest pain or coughing should consider consulting their doctor.

Ozone levels generally decrease at night and can be minimized during daylight hours by curtailment of automobile travel and the use of public transportation where available.

FINE PARTICULATE MATTER

Fine particulate matter consists of tiny solid particles or liquid droplets in the air that are 2.5 microns or less in diameter. PM 2.5 can be made of many different types of particles and often come from processes that involve combustion (e.g. vehicle exhaust, power plants, and fires) and from chemical reactions in the atmosphere.

Exposure can cause short-term health effects such as irritation to the eyes, nose, and throat, coughing, sneezing, runny nose, and shortness of breath. Exposure to elevated levels of fine particulate matter can also worsen medical conditions such as asthma and heart disease. People with heart or breathing problems, and children and the elderly may be particularly sensitive to PM 2.5.

When outdoor levels are elevated, going indoors may reduce exposure. If there are significant indoor sources of PM 2.5 (tobacco, candle or incense smoke, or fumes from cooking) levels inside may not be lower than outside. Some ways to reduce exposure are to minimize outdoor and indoor sources and avoid strenuous activities in areas where fine particle concentrations are high.

New Yorkers also are urged to take the following energy-saving and pollution-reducing steps:

- use mass transit or carpool instead of driving, as automobile emissions account for about 60 percent of pollution in our cities;
- conserve fuel and reduce exhaust emissions by combining necessary motor vehicle trips;
- turn off all lights and electrical appliances in unoccupied areas;
- use fans to circulate air. If air conditioning is necessary, set thermostats at 78 degrees;
- close the blinds and shades to limit heat build-up and to preserve cooled air;
- limit use of household appliances. If necessary, run the appliances at off-peak (after 7 p.m.) hours. These would include dishwashers, dryers, pool pumps and water heaters;
- set refrigerators and freezers at more efficient temperatures;
- purchase and install energy efficient lighting and appliances with the Energy Star label; and
- reduce or eliminate outdoor burning and attempt to minimize indoor sources of PM 2.5 such as smoking. A toll-free Air Quality Hotline (1-800-535-1345) has been established by DEC to keep New Yorkers informed of the latest Air Quality situation.

Additional [information on ozone](#) and [PM 2.5](#) is available on DEC's website and on [DOH's website \(PM 2.5\)](#) / [DOH's website \(ozone\)](#) (links leave DEC's website). To stay up-to-date with announcements from DEC, [sign up to receive Air Quality Alerts through DEC Delivers: DEC's Premier Email Service](#).

The **Wednesday, July 5**, Air Quality Health Advisory regions consists of: **New York City Metro**, which includes New York City, Rockland, and Westchester counties; and **Long Island** which includes Nassau and Suffolk counties.