

Community Air Monitoring Program
05/04/09 through 05/10/09

Community air monitoring data is reviewed and compared to specific NYSDEC/NYSDOH approved criteria, known as “Action Limits”. As a result of this evaluation process, site conditions are categorized into two categories, “Operational Condition” and “Action Condition”. The “Operational Condition” is applicable when the data is below the “Action Limits” noted in the table below. The “Action Condition” occurs when one or more fifteen minute average measurement for Dust (PM₁₀), Total Volatile Organic Compounds (TVOC), Naphthalene or Odor Intensity exceeds the background or upwind measurement by the “Action Limits” in the table below. During the period from 05/04/09 through 05/10/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM₁₀. **Fifteen-minute averages for TVOC and PM10 data remained in Operational Condition.**

On Friday, May 8, 2009 between 5:37 AM and 6:30 AM there were periods of elevated PM₁₀ concentrations caused by high moisture conditions (high humidity, rain, and fog) which interfered with the true measurement of PM₁₀ at the sites. The event lasted for ten minutes at Station 5 (FAM 5) and twenty three minutes at station 6 (FAM 6). The PM₁₀ concentrations were not associated with ground intrusive activities and background concentrations reduced all but five minutes of the elevated concentrations below the action limit; therefore the site remained in the Operational Condition (less than the Action Limit and or were not associated with ground intrusive activities).

The elevated concentrations are shown on the following two tables.

Weekly Data Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 05/04/09 End Date: 05/10/09

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		HCN	Odor	
	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	PM ₁₀	TVOC	HCN	Naphthalene	Intensity
	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(µg/m ³)	(ppm)	(ppm)	(µg/m ³)	(0-8)
Maximum 15-minute Averages (Action Limits: PM ₁₀ = 150 µg/m ³ / TVOC = 5 ppm / Naphthalene = 440 µg/m ³ / Odor Intensity = 3 / HCN = 1 ppm)																			
Mon 05/04/09	29.1	0.3	51.9	0.1	34.4	0.1	30.9	0.1	25.2	0.1	32.7	0.1	83.2	0.1	NA	NA	0.0	0	1
Tue 05/05/09	14.6	0.2	18.3	0.1	20.1	0.1	69.0	0.1	22.7	0.1	20.6	0.1	55.1	0.1	NA	NA	NA	0	1
Wed 05/06/09	46.4	0.1	26.7	0.1	53.9	0.1	48.1	0.2	23.3	0.1	26.8	0.1	35.9	0.1	NA	NA	NA	0	0
Thu 05/07/09	51.5	0.1	48.0	0.3	62.3	0.6	73.3	0.1	65.1	0.1	72.6	0.1	95.0	0.1	NA	NA	NA	NA	1
Fri 05/08/09	118.3 ¹	0.1 ¹	86.1	0.5	62.7	2.0	120.8	1.4	154.6 ²	0.1	205.6 ²	0.1	77.0	0.1	NA	NA	NA	NA	2
Sat 05/09/09	ND ¹	ND ¹	47.8	0.2	33.8	0.1	56.7	0.1	50.0	0.1	54.9	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 05/10/09	ND ¹	ND ¹	19.1	0.1	24.2	0.1	24.0	0.1	18.8	0.1	19.7	0.1	NA	NA	NA	NA	NA	NA	NA

PM₁₀ = Respirable Particulate Matter (dust)

TVOC = Total Volatile Organic Compound

ppm = Parts per million (by volume)

µg/m³ = Micrograms per cubic meter

All reported PM₁₀, TVOC, and odor intensity values represent 15-minute averages.

¹ Data collection interrupted for FAM 1 due to data collection service interruption (5/08 @ 02:17 PM Until 5/11 @ 07:18 AM)

² Highlighted values indicate dates and locations that require further comparison to the action limits based on wind direction, off site and on site activities (see Table 2)

NA Not

National Grid – Rockaway Park Former MGP Site

Weekly Elevated Concentration above the Action Limit Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 05/04/09 End Date: 05/10/09

<i>Summary of Elevated Concentrations</i>															
Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Approx. Start Dir* and speed	Approx. End Dir* and speed	Location of background conc.	Elevated Conc. Max	Background Conc. **	Max Conc. – Background Conc.**	Site Condition	Site Activity During the Period (if applicable)	Actions Taken
<i>Elevated Concentrations Above the Action Limit</i>															
PM₁₀	Fri 5/08/09	FAM 6	05:37 AM	05:51 AM	23	150	VAR.	"	FAM 3	205.6	55.8	149.8	Operational	None	None
			06:23 AM	06:30 AM			VAR	"							
PM₁₀	Fri 5/08/09	FAM 5	05:45 AM	05:47 AM	10	150	VAR	VAR	FAM 3	154.6	51.4	154.2	Operational	None	None
			06:22 AM	06:28 AM											

* Wind Directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW)

** Background concentrations are equal to the upwind concentrations unless winds are determined to be variable.

¹ In accordance with DER-10 this type of event is not considered to be an exceedance because the elevated concentrations were not associated with ground intrusive activities and/or did not exceed the Action Limit.

FAM – Real time fixed air monitoring station

PAM – Real time portable air monitoring station

NA – Not applicable

ND – No data available

VAR – Variable winds

PM₁₀ – Particulate matter (reported in $\mu\text{g}/\text{m}^3$)

TVOC – Total volatile organic compound (reported in ppm)