

Community Air Monitoring Program
12/14/09 through 12/20/09

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 12/14/09 through 12/20/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM₁₀. **Fifteen-minute averages for PM₁₀ and TVOC data remained in the Operational Condition.**

On Thursday, December 17, 2009 there were elevated PM₁₀ concentrations at Fixed Air Monitoring Site 5 (FAM 5) caused by high winds blowing loose clean fill (Mole Rock) in the direction of Site 5 (FAM 5). On Saturday, December 19, 2009 there were elevated PM₁₀ concentrations at Fixed Air Monitoring Site 6 (FAM 6) caused by an unknown reason, but it is suspected that wind-blown snow (based on observations from JFK, winds were NNE @~ 15 mph with snow) caused the elevated concentrations. Background concentrations were not great enough to reduce all the elevated PM₁₀ concentrations below the Action Limit. However, the elevated concentrations were not associated with ground intrusive activity: therefore, the site remained in the Operational Condition (not associated to ground intrusive activity) (see table 2).

Weekly Data Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 12/14/09 End Date: 12/20/09

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		HCN	Odor	
	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	HCN (ppm)	Naphth alene (µg/m ³)	Intensity (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 12/14/09	31.6	0.1	65.0	0.1	21.3	0.1	36.0	0.1	47.7	0.1	37.7	0.1	ND ²	0.1	NA	NA	NA	NA	NA
Tue 12/15/09	45.5	0.1	41.5	0.1	100.8	0.4	39.7	0.1	43.2	0.1	46.8	0.1	9.7 ²	0.1	NA	NA	NA	NA	NA
Wed 12/16/09	82.1	0.1	25.3	0.3	26.2	0.1	32.9	0.1	51.1	0.1	45.5	0.2	15.6	0.1	NA	NA	NA	NA	NA
Thu 12/17/09	10.8	0.1	31.5	0.1	61.7	0.1	59.7	0.1	286.5 ¹	0.1	78.8	0.1	13.0	0.0	NA	NA	NA	NA	NA
Fri 12/18/09	25.8	0.1	45.9	0.1	48.9	0.1	23.3	0.1	35.7	0.1	37.6	0.2	36.5	1.2	NA	NA	NA	NA	NA
Sat 12/19/09	9.8	0.1	39.4	0.1	15.1	0.1	43.8	0.1	52.8	0.2	185.6 ¹	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 12/20/09	7.7	0.1	32.0	0.1	11.8	0.1	24.0	0.1	52.1	0.2	18.1	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.

ND No Data

NA Not Applicable

¹ 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)

² PAM 1 PM₁₀ 12/14/09 @ 07:55 AM through 12/15/09 @ 02:50 PM data invalid due to erratic dustrak communication cable, dustrak and communication cable were replaced.

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: 12/14/09 End Date: 12/20/09

<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	Thu 12/17/09	FAM 5	6:04 AM 6:40 AM	6:18 AM 6:56 AM	32	150	NW ² 19.0 mph	NNW ² 22.0 mph	FAM 1	286.5	9.2	277.3	Operational ¹	Blowing clean fill (Mole Rock)	Watering instituted
PM₁₀	Sat 12/19/09	FAM 6	2:04 PM	2:16 PM	13	150	NNE ² 15.4 mph	NNE ² 14.6 mph	FAM 2	185.6	30.9	154.7	Operational ¹	None	None

* 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.

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)

¹ In accordance with DER-10 this type of event is not considered to be an exceedance because the elevated concentrations were not caused by ground intrusive activities.

² Wind direction data from JFK Airport due to on-site wind direction sensor malfunction.