

Community Air Monitoring Program  
07/13/09 through 07/19/09

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 (PM<sub>10</sub>), 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 07/13/09 through 07/19/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM<sub>10</sub>. **Fifteen-minute averages for PM<sub>10</sub> data remained in Operational Condition.**

On Tuesday, July 14, 2009 there were periods of elevated PM<sub>10</sub> concentrations at Portable Air Monitoring Site 1 (PAM 1) for seven minutes caused by a truck unloading clean mole rock onto a stockpile between PAM 1 and FAM 6. The unloading activities created visible dust, watering was implemented and concentrations were not reduced below the Action Limit. However, there were no ground intrusive activities in the vicinity of PAM 1, therefore the site remained in the Operational Condition (less than the Action Limit and or were not associated with ground intrusive activities).

On Friday evening, July 17 and Saturday morning July 18, 2009 there were periods of elevated PM<sub>10</sub> concentrations caused by high moisture conditions (high relative humidity) which interfered with the true measurement of PM<sub>10</sub> at the sites. The elevated concentrations were at Station 2 (FAM 2), Station 3 (FAM 3), and Station 6 (FAM 6) (see elevated concentration table for details). The PM<sub>10</sub> concentrations were not associated with ground intrusive activities and background concentrations reduced all 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 in the following two tables.

**Weekly Data Summary Report**  
**National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY**  
**Reporting Period (Monday – Sunday): Start Date: 07/13/09 End Date: 07/19/09**

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		HCN	Odor	
	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	HCN (ppm)	Naphth alene (µg/m <sup>3</sup> )	Intensity (0-8)
Maximum 15-minute Averages (Action Limits: PM <sub>10</sub> = 150 µg/m <sup>3</sup> / TVOC = 5 ppm / Naphthalene = 440 µg/m <sup>3</sup> / Odor Intensity = 3 / HCN = 1 ppm)																			
Mon 07/13/09	48.7	0.1	30.4	0.3	31.4	0.1	18.9	2.1	22.8	0.1	24.3	0.1	60.5	0.2	NA	NA	NA	NA	0
Tue 07/14/09	47.6	0.2	26.4	0.1	76.3	0.2	59.3	2.6	128.3	0.1	28.2	0.2	165.6 <sup>1</sup>	0.2	NA	NA	NA	NA	0
Wed 07/15/09	15.2	0.1	32.7	0.1	56.3	0.3	39.6	3.2	43.4	0.1	43.5	0.1	47.5	0.2	NA	NA	NA	NA	0
Thu 07/16/09	98.7	0.1	119.0	0.8	139.5	0.1	108.3	0.4	121.1	0.1	145.6	0.1	48.1	0.2	NA	NA	NA	NA	1
Fri 07/17/09	102.5	0.1	192.5 <sup>1</sup>	0.1	140.1	0.4	113.9	2.1	122.4	0.1	158.5 <sup>1</sup>	0.1	88.9	0.3	NA	NA	NA	NA	2
Sat 07/18/09	58.9	0.1	170.4 <sup>1</sup>	0.1	222.8 <sup>1</sup>	0.2	103.5	0.1	103.8	0.1	188.8 <sup>1</sup>	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 07/19/09	23.1	0.1	24.2	0.1	26.8	0.1	22.0	0.1	25.2	0.1	35.6	0.1	NA	NA	NA	NA	NA	NA	NA

PM<sub>10</sub> = Respirable Particulate Matter (dust)

TVOC = Total Volatile Organic Compound

ppm = Parts per million (by volume)

µg/m<sup>3</sup> = Micrograms per cubic meter

<sup>1</sup> 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)

All reported PM<sub>10</sub>, TVOC, and odor intensity values represent 15-minute averages.

NA ND No Data

NA Not Applicable

**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: 07/13/09 End Date: 07/19/09**

<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>															
<b>PM<sub>10</sub></b>	Tue 7/14/09	PAM1	12:55PM	1:01PM	7	150	SSW 7.7mph	"	FAM6	165.6	4.9	160.7	Operational <sup>1</sup>	Trucks unloading clean moll rock onto a stock pile between PAM1 and FAM6	Watering was implemented and concentrations dropped below Alert Limit
<b>PM<sub>10</sub></b>	Fri 7/17/09	FAM6	2:56AM 3:24AM	3:09AM 3:56AM	47	150	SE 3.1mph	NE 4.3mph	FAM3	158.5	59.6	98.9	Operational <sup>2</sup>	None	None
<b>PM<sub>10</sub></b>	Fri 7/17/09	FAM2	7:06PM	9:19PM	134	150	SE 8.5mph	SSE 6.2mph	FAM4	192.5	92.7	99.8	Operational <sup>2</sup>	None	None
<b>PM<sub>10</sub></b>	Fri 7/17/09	FAM6	10:02PM	10:30PM	29	150	SE 8.3mph	SE 5.8mph	FAM4	156.1	112.8	43.3	Operational <sup>2</sup>	None	None
<b>PM<sub>10</sub></b>	Sat 7/18/09	FAM6	4:51AM	6:45AM	115	150	WSW 3.1mph	West 7.5mph	FAM6	188.8	188.8	0.0	Operational <sup>2</sup>	None	None
<b>PM<sub>10</sub></b>	Sat 7/18/09	FAM3	4:58AM 7:10AM	6:54AM 7:30AM	138	150	WSW 3.1mph	West 7.0mph	FAM6	222.8	187.9	34.9	Operational <sup>2</sup>	None	None
<b>PM<sub>10</sub></b>	Sat 7/18/09	FAM2	5:06AM 5:10AM 5:14AM 5:19AM 5:28AM 5:38AM 5:43AM 5:48AM 5:51AM	--- 5:12AM 5:17AM 5:26AM 5:35AM 5:39AM 5:44AM 5:49AM 6:16AM	56	150	WSW 3.1mph	West 6.3mph	FAM1	170.4	58.8	111.6	Operational <sup>2</sup>	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

PM<sub>10</sub> – Particulate matter (reported in  $\mu\text{g}/\text{m}^3$ )

TVOC – Total volatile organic compound (reported in ppm)

<sup>1</sup> 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 or impacted soil activities.

<sup>2</sup> In accordance with DER-10 this type of event is not considered to be an exceedance because the elevated concentrations did not exceed the Action Limit..