

Community Air Monitoring Program  
04/13/09 through 04/19/09

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 04/13/09 through 04/19/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM<sub>10</sub>. **Fifteen-minute averages for TVOC and PM<sub>10</sub> data remained in Operational Condition with the exception of PM<sub>10</sub> at Fixed Air Monitoring Site 1 (FAM 1). FAM 1 was in the Action Condition during the evening of 4/15/09 between 10:14 PM and 10:25 PM and again from 11:24 PM and 11:38 PM (see below)**

On Wednesday, April 15, 2009 there were periods of elevated PM<sub>10</sub> concentrations above the action limit (150µg/m<sup>3</sup>) for twenty seven minutes (10:14 PM – 10:25 PM and 11:24 PM – 11:38 PM) at FAM 1. The cause for these elevated concentrations is unknown, but is not the result of site activities and is considered an off-site source, since these PM<sub>10</sub> (dust) exceedances occurred overnight during non-working hours. At the time of this event winds were northwest to northeast at <3mph (FAM 1 is on the northern site perimeter). The site returned to the operational condition once concentrations dropped below the action limit.

The elevated concentrations are shown in the following tables.

**Weekly Data Summary Report**  
**National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY**  
**Reporting Period (Monday – Sunday): Start Date: 04/13/09 End Date: 04/19/09**

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		PAM 3		Odor	
	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	PM <sub>10</sub>	TVOC	Naphthalene	Intensity
	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(ppm)	(µg/m <sup>3</sup> )	(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)																				
Mon 04/13/09	55.6	0.1	18.8	0.1	84.5	0.1	16.1	0.1	30.4	0.1	80.8	0.1	47.2	0.1	NA	NA	NA	NA	NA	NA
Tue 04/14/09	55.8	0.1	36.1	0.1	36.4	0.1	28.0	0.1	27.5	0.1	40.8	0.1	47.1	0.1	NA	NA	NA	NA	NA	NA
Wed 04/15/09	209.0 <sup>1</sup>	0.1	30.5	0.2	36.7	0.1	134.5	0.1	92.9	0.1	41.6	0.1	48.8	0.1	NA	NA	NA	NA	NA	NA
Thu 04/16/09	120.3	0.1	28.6	0.1	34.0	0.1	37.3	0.1	20.2	0.1	29.0	0.1	52.0	0.1	NA	NA	NA	NA	NA	NA
Fri 04/17/09	52.7	0.1	49.4	0.1	59.0	0.1	42.4	0.1	40.4	0.1	42.8	0.1	77.4	0.1	NA	NA	NA	NA	NA	NA
Sat 04/18/09	21.4	0.1	22.3	0.1	29.8	0.1	22.4	0.1	22.4	0.1	30.6	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Sun 04/19/09	21.1	0.1	25.1	0.1	27.7	0.1	21.2	0.1	20.1	0.1	24.4	0.1	NA	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.

**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: 04/13/09 End Date: 04/19/09**

<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>	Wed 4/15/09	FAM 1	10:14 PM	10:25 PM	12	150	N 1.9mph	NNW 1.7mph	FAM 4	189.9	10.7	179.2	Action	None	None
<b>PM<sub>10</sub></b>	Wed 4/15/09	FAM 1	11:24 PM	11:38 PM	15	150	N 2.8mph	NNE 2.8mph	FAM 4	209.0	11.5	197.5	Action	None	None

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

<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 associated with ground intrusive activities.

\*\* 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)