

Community Air Monitoring Program  
March 23, 2009 through March 29, 2009

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 March 23, 2009 through March 29, 2009 there were six Fixed Air Monitoring (FAM) locations measuring Total Volatile Organic Compounds (TVOC) and Particulate Matter (PM<sub>10</sub>). **Fifteen-minute averages for odor intensity, naphthalene, TVOC, and PM<sub>10</sub> data remained in Operational Condition.**

On Monday, March 23, 2009 there were periods of elevated concentrations of dust for sixty minutes at FAM-1 and one minute at FAM-6. These elevated concentrations were caused by wind blown dust. Visible dust was observed impacting FAM-1 and FAM-6. This dust was not associated with ground intrusive or impacted soil activities; therefore the site conditions remained at the operational condition (less than the Action Limit).

On Friday, March 27, 2009 there were elevated concentrations of dust for twelve minutes at FAM-6. These elevated concentrations of dust were caused by offsite road construction. Dust was created by exhaust and working equipment. This dust was not associated with ground intrusive or impacted soil activities; therefore the site conditions remained at the operational condition (less than the Action Limit).

The elevated concentrations are shown on the following two tables.

**Weekly Data Summary Report**  
**National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY**  
**Reporting Period (Monday – Sunday): Start Date: 3/23/09 End Date: 3/29/09**

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 3/23/09	280.4 <sup>1</sup>	0.1	87.9	0.1	24.2	0.2	16.9	0.1	89.5	0.1	150.8 <sup>1</sup>	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Tue 3/24/09	99.9	0.1	145.9	0.1	52.0	0.3	38.2	0.1	113.9	0.1	123.7	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Wed 3/25/09	72.9	0.1	54.5	0.1	50.2	0.2	25.9	0.1	58.0	0.1	29.4	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Thu 3/26/09	41.9	0.1	85.3	0.1	22.9	0.1	14.7	0.1	22.1	0.1	15.8	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Fri 3/27/09	124.4	0.1	80.1	0.2	39.3	0.1	34.7	0.1	68.3	0.1	194.6 <sup>1</sup>	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Sat 3/28/09	36.5	0.1	29.4	0.1	23.0	0.1	23.1	0.1	26.1	0.1	21.3	0.1	NA	NA	NA	NA	NA	NA	ND	0
Sun 3/29/09	36.2	0.1	21.9	0.1	20.9	0.4	19.8	0.1	23.3	0.1	17.7	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 alert and/or 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.  
Odor Intensity is measured 0-8 on the n-butanol scale.

FAM # Fixed Air Monitoring Station  
PAM # Portable Air Monitoring Station  
ND No Data  
NA Not Applicable

**Weekly Elevated Concentration above the Action Limit Summary Report**  
**National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY**  
**Reporting Period (Monday – Sunday): Start Date: 3/23/09 End Date: 3/29/09**

<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 Level</i>															
<b>PM<sub>10</sub></b>	Mon 3/23/09	FAM 1	4:39PM	4:52PM	33	150	NNE 4.0mph	NE 4.8mph	FAM 2	218.2	14.8	203.4	Operational	Waste water treatment plant in operation (non-ground intrusive) <sup>1</sup>	The AM Technician contacted the site CM and the H&S Officers. The elevated concentrations were caused by wind blown dust. Visible dust could be observed impacting FAM1 and FAM6.
			4:58PM	-											
			5:02PM	5:11PM											
			5:14PM	5:17PM											
			5:25PM	5:28PM											
			5:39PM	-											
<b>PM<sub>10</sub></b>	Mon 3/23/09	FAM 1	10:26PM	10:55PM	27	150	ENE 4.2mph	NE 5.8mph	FAM 2	280.4	16.7	263.7	Operational	Waste water treatment plant in operation (non-ground intrusive) <sup>2</sup>	The AM Technician contacted the site CM and the H&S Officers. The elevated concentrations were caused by wind blown dust. Visible dust could be seen impacting FAM1 and FAM6.
		FAM 6	10:46PM	-	1		NE 5.8mph	-	FAM2	150.8	19.2	131.6			
<b>PM<sub>10</sub></b>	Fri 3/27/09	FAM 6	7:29PM	7:40PM	12	150	NNW 3.6mph	NW 3.1mph	FAM 1	193.5	14.1	179.4	Operational	Waste water treatment plant in operation (non-ground intrusive) <sup>1</sup>	The AM Technician contacted the site CM and the H&S Officers. The elevated concentrations were caused by offsite road construction in the vicinity of FAM1. Construction was along the adjacent roadway. Elevated concentrations caused by dust and heavy equipment exhaust. Elevated concentrations also impacted FAM1 (see alert limit table).

\* 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)

<sup>1</sup> In accordance with DER-10 this type of event is not considered to be an exceedance because the activity was not associated with ground intrusive activities.

<sup>2</sup> In accordance with DER-10 this type of event is not considered to be an exceedance because the activity was not associated with ground intrusive activities and/or did not exceed the action limit.