

Community Air Monitoring Program
March 16, 2009 through March 22, 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 (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 March 16, 2009 through March 22, 2009 there were six Fixed Air Monitoring (FAM) locations measuring Total Volatile Organic Compounds (TVOC) and Particulate Matter (PM₁₀). **Fifteen-minute averages for odor intensity, naphthalene, TVOC, and PM₁₀ data remained in Operational Condition.**

On Wednesday, March 18, 2009 there were elevated concentrations of dust for four minutes at FAM2. These elevated concentrations were caused by wind blown dust. Visible dust was observed impacting FAM2 and water was applied to the ground in the vicinity of FAM2 to reduce the potential for wind blown dust. 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: 3/16/09 End Date: 3/22/09

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		PAM 3		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)	PM ₁₀ (µg/m ³)	TVOC (ppm)	Naphthalene (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 Alert Limits: PM ₁₀ = 100 µg/m ³ / TVOC = 3.7 ppm)																				
Mon 3/16/09	51.4	0.1	108.7	0.1	75.3	0.1	74.7	0.1	92.2	0.1	77.2	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Tue 3/17/09	44.8	0.1	130.7	0.1	20.7	0.1	21.1	0.1	43.9	0.1	28.0	0.1	NA	NA	NA	NA	NA	NA	0.0	2
Wed 3/18/09	41.9	0.1	159.1 ¹	0.1	26.1	0.1	16.9	0.1	95.7	0.1	24.1	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Thu 3/19/09	19.0	0.1	28.5	0.1	29.0	0.1	26.0	0.1	66.4	0.1	35.2	0.1	NA	NA	NA	NA	NA	NA	0.0	2
Fri 3/20/09	36.3	0.1	83.6	0.1	54.2	0.1	30.4	0.1	70.0	0.1	32.9	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Sat 3/21/09	28.4	0.1	81.7	0.1	51.3	0.1	27.6	0.1	60.0	0.1	102.3	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Sun 3/22/09	25.1	0.1	41.7	0.1	29.6	0.2	22.2	0.1	42.7	0.1	19.2	0.1	NA	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

¹ 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 PM₁₀, 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: 3/16/09 End Date: 3/22/09

<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>															
PM ₁₀	Wed 3/18/09	FAM 2	1:12PM	1:15PM	4	150	SW 9.2mph	WSW 12.3mph	FAM 1	159.1	40.3	118.8	Operational	Waste water treatment plant in operation (non-ground intrusive) ¹	The AM technician responded to the event by contacting the site CM and the H&S officer. The AM technician reported that the elevated concentrations were caused by wind blown dust. The wind created a cloud of visible dust which was observed impacting FAM2. Water was applied to the ground in the vicinity of FAM2 and concentrations quickly dropped below the Alert limit.

* 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 µg/m³)

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 the elevated concentrations did not exceed the action limit.