

Community Air Monitoring Program
January 12, 2009 through January 18, 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 January 12, 2009 through January 18, 2009 there were six Fixed Air Monitoring (FAM) locations and one Portable Air Monitoring 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 Thursday, January 15, 2009 there were elevated concentrations of dust for twelve minutes at FAM-6. These elevated concentrations were caused by wind blown snow. This dust (airborne snow) was not associated with intrusive activities; therefore the site remained in the Operational Condition (less than the action limit).

The maximum concentrations are shown on the following table.

Weekly Data Summary Report
National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY
Reporting Period (Monday – Sunday): Start Date: 1/12/09 End Date: 1/18/09

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)																				
Mon 1/12/09	68.7	0.1	41.3	0.1	35.4	0.1	40.3	0.1	39.0	0.0 ¹	36.1	0.1	49.7	0.6	NA	NA	NA	NA	0.0	0
Tue 1/13/09	80.3	0.1	61.7	0.1	43.5	0.2	45.7	0.1	49.7	0.1 ^{1,2}	49.8	0.1	63.1	0.4	NA	NA	NA	NA	0.0	0
Wed 1/14/09	60.8	0.1	37.4	0.1	33.3	0.1	35.6	0.1	36.8	0.1	31.7	0.1	NA	NA	NA	NA	NA	NA	0.0	0
Thu 1/15/09	149.6	0.1	27.6	0.1	11.2	0.1	10.5	0.1	34.8	0.1	168.4 ³	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Fri 1/16/09	41.3	0.1	33.5	0.1	10.9	0.1	14.7	0.1	15.1	0.1	15.4	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Sat 1/17/09	46.2	0.1	37.8	0.1	31.5	0.1	36.2	0.1	38.9	0.1	44.8	0.1	NA	NA	NA	NA	NA	NA	NA	NA
Sun 1/18/09	34.0	0.1	31.9	0.1	41.5	0.1	32.5	0.1	35.8	0.1	40.8	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

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

¹ Limited data collection because of data logger malfunction, PAM 1 set in the vicinity of FAM5. 1-minute average TVOC values were substituted into the database from the internal memory of the PID.

² Data logger malfunction was repaired on 1/13/09 at 11:49AM

³ 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).

Weekly Elevated Concentration Summary Report
National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY
Reporting Period (Monday – Sunday): Start Date: 1/12/09 End Date: 1/18/09

<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>															
PM₁₀	Thurs 1/15/09	FAM 6	2:20PM	2:31PM	12	150	N 10.6mph	-	FAM 1	168.4	149.1	19.3	Operational	No site activities due to poor weather conditions.	An observer reported blowing snow in the vicinity of FAM6 and FAM1. Concentrations quickly dropped below the alert limit. No actions were taken.

* 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 concentrations remained below the action limit.