

Community Air Monitoring Program
March 30, 2009 through April 5, 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 30, 2009 through April 5, 2009 there were six Fixed Air Monitoring (FAM) locations and three 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 Monday, March 30, 2009 there were elevated concentrations of dust for twenty-three minutes at FAM-1. The elevated dust concentrations were caused by exhaust from offsite road construction vehicles starting up for the day. This exhaust was observed moving onsite and impacting FAM-1. 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: 3/30/09 End Date: 4/5/09

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 3/30/09	552.6 ¹	0.1	24.5	0.1	28.7	0.1	21.9	0.1	54.8	0.1	55.9	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Tue 3/31/09	102.8	0.1	51.5	0.1	44.4	0.1	17.4	0.1	22.9	0.1	80.4	0.1	NA	NA	NA	NA	NA	NA	0.0	1
Wed 4/1/09	114.9	0.1	29.7	0.1	25.4	0.2	32.5	0.1	61.7	0.1	116.3	0.1	NA	NA	NA	NA	NA	NA	0.0	2
Thu 4/2/09	67.5	0.1	30.0	0.1	22.5	0.1	34.6	0.1	107.7	0.1	33.7	0.1	61.2	0.5	86.2	0.2	NA	NA	0.0	2
Fri 4/3/09	42.1	0.1	26.0	0.1	34.1	0.1	16.8	0.1	40.6	0.1	29.5	0.1	29.3	0.1	48.6	0.1	4.3	ND	0.0	1
Sat 4/4/09	36.2	0.1	17.1	0.2	26.1	0.1	11.0	0.1	34.6	0.1	28.1	0.1	10.8	0.6	18.1	0.8	NA	NA	0.0	1
Sun 4/5/09	35.0	0.1	31.0	0.1	23.3	0.1	22.3	0.1	63.3	0.1	29.2	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: 3/30/09 End Date: 4/5/09

<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	Mon 3/30/09	FAM 1	7:34AM	7:56AM	23	150	WNW 13.3mph	WNW 13.5mph	FAM 1	552.6	552.6	0.0	Operational	Waste water treatment plant in operation (non-ground intrusive) ¹	The AM Technician contacted the site CM and HS Officer. Elevated concentrations caused by offsite road construction vehicles being started up. An exhaust cloud was observed moving onto the site and impacting FAM 1.

* 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 did not exceed the action limit.