

Community Air Monitoring Program
February 16, 2009 through February 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 February 16, 2009 through February 22, 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 Monday, February 16, 2009 there were elevated concentrations of dust for twelve minutes at FAM3. These elevated concentrations were caused by workers emptying dry cement mix into the bucket of an excavator. Visible dust was observed when it was transported, poured and mixed in the mixing container. 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 limits).

On Wednesday, February 18, 2009 there were periods of elevated concentrations of dust for one hundred sixty-three minutes at FAM3. These elevated concentrations were caused by steam/exhaust venting from the pump/generator associated with the dewatering process. Dewatering was stopped and concentrations dropped quickly. This dust was not associated with ground intrusive or impacted soil activities; therefore the site conditions remained at the operation condition (less than the action limits).

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: 2/16/09 End Date: 2/22/09

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)																				
Mon 2/16/09	63.1 ²	0.1 ²	25.4	0.1	184.7 ¹	0.1	28.7	0.1	42.6	0.1	54.6	0.1	88.8	0.1	NA	NA	NA	NA	0.0	0
Tue 2/17/09	121.8	0.1	48.3	0.1	32.7	0.3	29.6	0.1	52.0	0.1	64.8	0.1	75.7	0.1	NA	NA	NA	NA	0.0	0
Wed 2/18/09	72.9	0.1	464.9 ¹	0.1	54.6	0.1	44.7	0.1	41.2	0.1	39.6	0.1	NA	NA	NA	NA	NA	NA	0.0	2
Thu 2/19/09	16.5	0.1	56.2	0.1	36.6 ³	0.7 ³	ND ⁴	ND ⁴	25.2	0.1	40.1 ³	0.1 ³	NA	NA	28.6	0.1	NA	NA	0.0	0
Fri 2/20/09	4.2	0.1	83.2	0.1	72.3	0.1	13.1 ⁴	0.1 ⁴	42.1	0.1	11.5	0.1	NA	NA	35.0	0.1	NA	NA	0.0	1
Sat 2/21/09	21.3	0.1	69.5	0.1	92.6	0.1	26.4	0.1	80.9	0.1	28.5	0.1	NA	NA	NA	NA	NA	NA	0.0	0
Sun 2/22/09	13.8	0.1	41.0	0.1	27.1 ⁵	0.1 ⁵	25.1	0.1	30.4	0.1	25.9	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 Highlighted values indicate dates and locations that require further comparison to the action limits based on wind direction, offsite and onsite activities (See table 2).

² Limited data collection because AM unit became unplugged. PAM1 set up in the vicinity of FAM1.

³ Limited data collection at FAM3 and FAM6 because heavy rain tripped the circuit breaker.

⁴ Limited data collection at FAM4 because heavy rain tripped the circuit breaker. PAM2 set in the vicinity of FAM4 because AM technician could not restore power before site activities started.

⁵ Limited data collection at FAM3 because to heavy rain tripped the circuit breaker.

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: 2/16/09 End Date: 2/22/09

<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	Mon 2/16/09	FAM 3	3:29PM	3:40PM	12	150	WNW 4.4mph	WNW 4.8mph	PAM 1	184.7	5.3	179.4	Operational	Waste water treatment plant in operation ¹	AM technician contacted the site CM and the HS officer. AM technician reported that elevated concentrations were due to workers emptying dry cement mix into the bucket of an excavator. The dry cement mix caused visible dust when it was transported, poured and mixed in the mixing container.
PM ₁₀	Wed 2/18/09	FAM 2	1:17AM 1:41AM 3:00AM 4:02AM 4:57AM 6:02AM 6:41AM 7:12AM	1:35AM 2:54AM 3:07AM 4:19AM 5:02AM 6:17AM - 7:32AM	163	150	VAR	VAR	FAM 1	464.9	1.9	463.0	Operational	Waste water treatment plant in operation ¹	AM technician contacted the site CM and the HS officer. AM technician reported that the elevated concentrations were due to steam/exhaust venting from the pump/generator associated with the dewatering process. Dewatering was stopped. It resumed when concentrations dropped below the alert limit and the carbon filter drum was reinstalled.

* 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 activity was not associated with ground intrusive activities.