

Community Air Monitoring Program  
May 4, 2009 through May 9, 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 between May 4, 2009 and May 9, 2009 there were three Portable Air Monitoring (PAM) locations measuring TVOC and PM<sub>10</sub> during normal work hours. The completion of ground intrusive or impacted soil activities at the Sag Harbor remediation site prompted the site activities to transition into the demobilization phase. At the beginning of the demobilization phase air monitoring for TVOC and PM<sub>10</sub> was reduced from six FAM locations to three PAM locations. **Fifteen-minute averages for odor intensity, naphthalene, TVOC, and PM<sub>10</sub> data remained in Operational Condition.**

On Wednesday, May 6, 2009 there were periods of elevated concentrations of dust for twenty-one minutes at PAM-2. These elevated concentrations of dust were caused by high relative humidity and vehicle exhaust. Vehicle exhaust impacted PAM2 as the trucks exited the site. 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).

**Weekly Data Summary Report**  
**National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY**  
**Reporting Period (Monday – Saturday): Start Date: 5/4/09 End Date: 5/9/09**

Date	PAM 1		PAM 2		PAM 3		Odor	
	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	Naphthalene (µg/m <sup>3</sup> )	Intensity (0-8)
<b>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 Alert Limits: PM<sub>10</sub> = 100 µg/m<sup>3</sup> / TVOC = 3.7 ppm)</b>								
<b>Mon 5/4/09</b>	54.0	0.1	61.2	0.0	33.5	0.1	NA	0
<b>Tue 5/5/09</b>	ND <sup>1</sup>	ND <sup>1</sup>	121.7	0.1	34.2	0.1	NA	0
<b>Wed 5/6/09</b>	36.8	0.1	369.1 <sup>2</sup>	0.1	36.2	0.2	NA	0
<b>Thu 5/7/09</b>	70.6	0.2	27.5	0.2	20.2	0.1	NA	0
<b>Fri 5/8/09</b>	42.7	0.4	64.8	0.5	24.2	0.4	NA	ND
<b>Sat 5/9/09</b>	112.0	0.1	133.5	0.5	67.3	0.1	NA	ND

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

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 – Saturday): Start Date: 5/4/09 End Date: 5/9/09**

<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>															
<b>PM<sub>10</sub></b>	Wed 5/6/09	PAM 2	8:52AM	9:12AM	21	150	N 5.4mph	N 5.0mph	PAM 1	369.1	4.3	364.8	Operational	Waste water treatment (non-ground intrusive) <sup>1</sup>	AM Technician contacted the site CM and the site H&S Officer. The elevated concentrations were caused by high relative humidity and vehicle exhaust. Vehicle exhaust impacted PAM2 as trucks exited the site. 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  $\mu\text{g}/\text{m}^3$ )

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 site intrusive activities and/or did not exceed the Action Limit.