AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Community Air Monitoring Program Update

Location: **National Grid – Former Rockaway Park MGP Site, Bulkhead Area**

Period: **December 7 through December 13, 2015**

CAMP 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 "Alert, Response and Action Limits", and means that normal operations can continue. The "Action Condition" occurs when one or more of the fifteen minute average measurements for Dust (PM_{10}), Total Volatile Organic Compounds (TVOC) or Odor Intensity are greater than the background or upwind measurement by the specified "Action Limits." Reaching an Action Level requires corrective action or stopping work until the condition is addressed or abates. During the period from December 7, 2015 through December 13, 2015, four portable CAMP stations were in-use and measured TVOC and PM_{10}. **Fifteen-minute averages for TVOC data remained below the Action Limit**.

On Monday, December 7, 2015 there were periods of elevated 15-minute average PM_{10} concentrations greater than the Action Limit. These concentrations were caused by high regional background concentrations. These elevated PM_{10} concentrations were evaluated further in accordance with the NYSDOH Guidelines (DER-10) and after accounting for background concentrations each concentration was reported below the Response Limit. Therefore, the Site remained in the operational condition.

Weekly Real-Time Maximum PM_{10} and TVOC and Periodic Hand-Held PM_{10}, TVOC and Odor Concentration Summary

	PAM-1		PAM-2		PAM-3		PAM-4		Hand-Held		
	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	Odor (0-8)
Maximum 15-Minute Average Concentrations (Action Limits: PM_{10} = 150 µg/m^3 / TVOC = 25 ppm / Odor Intensity = 3)											
Mon 12/7/15	175.2	0.1	170.0	0.1	114.4	0.3	135.7	0.1	NA	NA	NA
Tue 12/8/15	93.6	0.1	74.4	0.1	53.8	0.1	63.2	0.1	NA	NA	NA
Wed 12/9/15	55.7	0.1	120.1	0.1	73.9	0.2	56.5	0.1	NA	NA	NA
Thu 12/10/15	89.4	0.1	99.2	0.4	72.1	0.1	65.5	0.1	NA	NA	NA
Fri 12/11/15	76.4	0.1	78.1	0.1	55.0	0.6	67.0	0.1	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter (µg/m^3)
TVOC = Total Volatile Organic Compounds (ppm)
NA = Not Applicable
ND = No Data

- Highlighted concentrations were reported above the Action Limits and were subject to further analysis based on background concentrations and onsite and offsite activities (shown in following table, if applicable).
- PAM stations collect average 15-minute PM_{10} and TVOC concentrations updated every one minute during periods of Site activities (estimated to be Monday – Friday between 7AM and 4PM).

Concentrations Above the Action Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
TVOC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Operational	TVOC Concentrations remained below the Action Limit.
PM_{10}	Mon 12/7/15	PAM-1	7:44AM	8:11AM	28	150 $\mu g/m^3$	SW 4.4 mph	WSW 6.2 mph	PAM-4	175.2	110.1	65.1	Operational	Elevated PM_{10} concentrations were caused by high regional background.
		PAM-2	8:05AM 8:24AM	8:07AM 10:40AM	140	150 $\mu g/m^3$	WSW 6.2 mph	WNW 3.8 mph	PAM-1	170.0	110.8	59.2	Operational	

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.