

Sherwin-Williams Site Cleanup

Emeryville, California

September 7, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of August 29 and going through September 2, 2011. Following is a brief overview of site activities which occurred during this period, as well as a discussion of air monitoring results compared to site action levels. Charts and figures are attached which show running averages for Respirable Particulate Matter of 10 micrometers or less (RPM₁₀) running averages; Total Volatile Organic Compounds (TVOC) running averages; and wind speed and direction.

Site Activities

- Dust and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping);
- Operation of a project dedicated street sweeper onsite and on the surrounding adjacent roads;
- Excavation and stockpiling of soil and debris (concrete, steel) in the second (to elev. +14, vadose zone) and third (to elev. +10) excavation layers (vadose zone material beneath the raised cap); and fourth (to elev. +6), fifth (to elev. +2), and sixth (to elev. -2,) excavation layers (saturated zone material beneath the raised cap) ;
- Thirty eight trucks were loaded with non-hazardous material for transport to local landfills;
- Imported and stockpiled 126 (approx. 1,640 CY) loads of clean backfill soil;
- Moved 41 loads of clean backfill materials to northeast of Building 31 and to the area along shoring next to Horton Street for building a haul route access to the north end of the excavation.
- A unit train of 69 railcars of California Hazardous waste went out from the Oakland rail yard on Thursday September 1, 2011 to ECDC.
- Excavation and stockpiling of design category 1B waste;
- Mixing of Zorbix, a dry dewatering agent into stockpiles with saturated zone soils for control of runoff from the soil during stockpiling and transport;
- Operation of the excavation dewatering system by pumping from several deeper (between elev. -9 to -12) sump areas;
- Sampling of stockpiled material occurred during the week;
- Mapping of sand lenses in the saturated zone along the north sidewall of excavation
- Measured water levels at several monitoring wells located on Horton Street and 45th Street to assess groundwater drawn down and the direction of the gradient created by the pumping.



Air Monitoring and Sampling

- Daily calculation of misting delta during morning and afternoon, setting of daily action levels based on background conditions and the type of material being excavated;
- Daily calibration of the seven project AMSs;
- Daily perimeter air monitoring at the seven AMS locations for RPM10 and TVOCs;
- Communication errors resulting from radio interference resulted in a minor data loss for AMS#2 on August 30 and August 31. The communication errors occurred overnight during not working hours and did not affect monitoring during work hours. The data for RPM10 was fully recovered from the AMS equipment.
- No air samples were collected at the perimeter AMSs per the approval of DTSC to modify the daily collection of air samples to days when the excavation of soil is occurring in areas of high VOCs or metals. Monitoring of TVOCs and RPM10 continued 24 hours per day throughout the week.

Perimeter air monitoring occurred continuously through the week.

No exceedances of air quality standards occurred during the week. Aerosol particles less than 10 micrometers from the perimeter mister lines are being measured in the dust monitors at the site perimeter. To account for the influence of the misters on the RPM10 levels, a delta value was added to the action level of Air Monitoring Station (AMS) #3 and the station directly downwind to AMS#3. This approach has been validated by air sample collection and analysis. Subsequent 4 hour rolling averages for RPM10 have been below the action levels at all AMSs. Running averages for TVOC and RPM10 since the start of the project continue to be below their respective action levels at all AMSs.

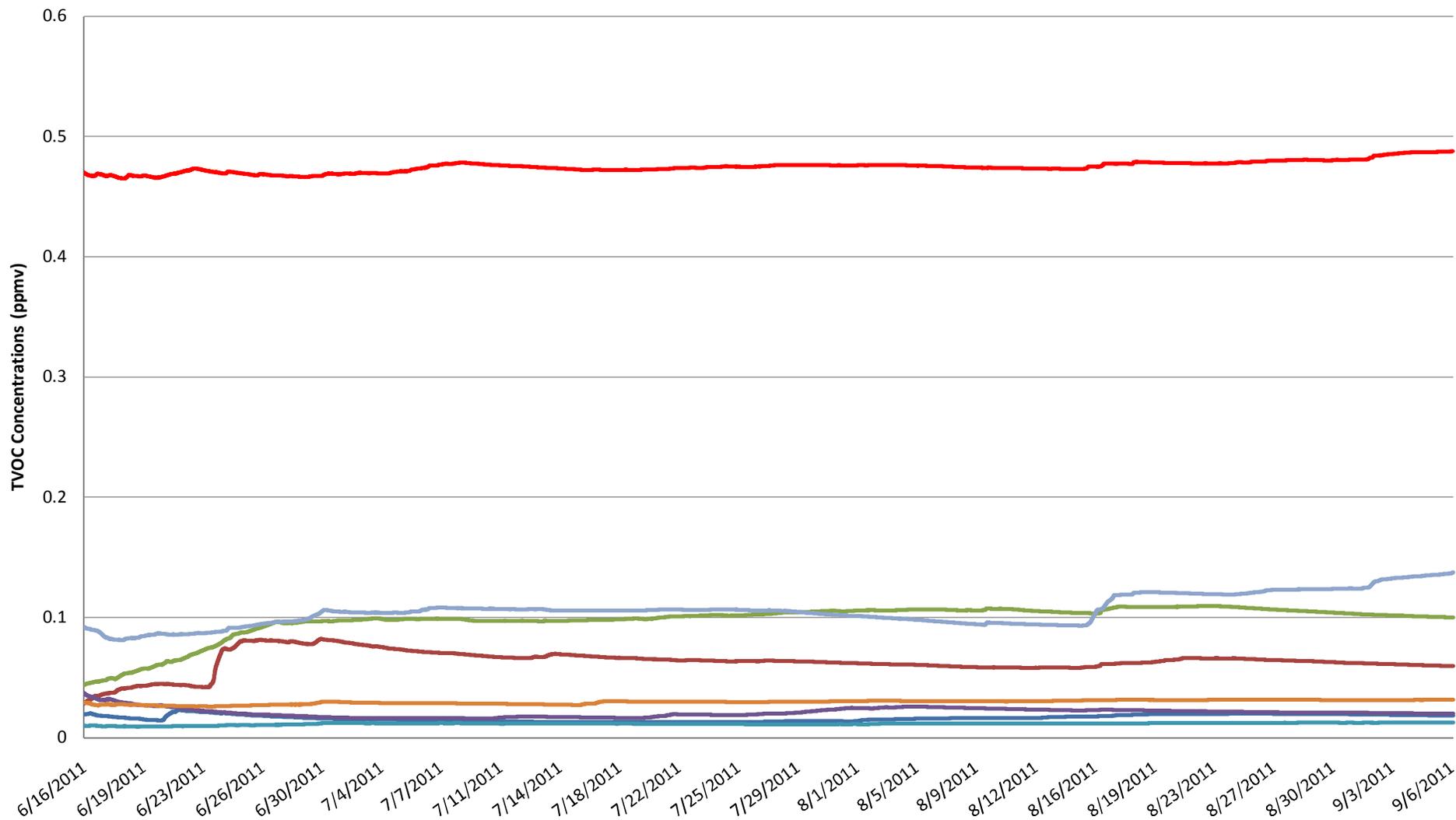
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

TVOC Running Average Since 06/16/11

Station 1 Station 2 Station 3 Station 4 Station 5 Station 6 Station 7 Subchronic Action Level

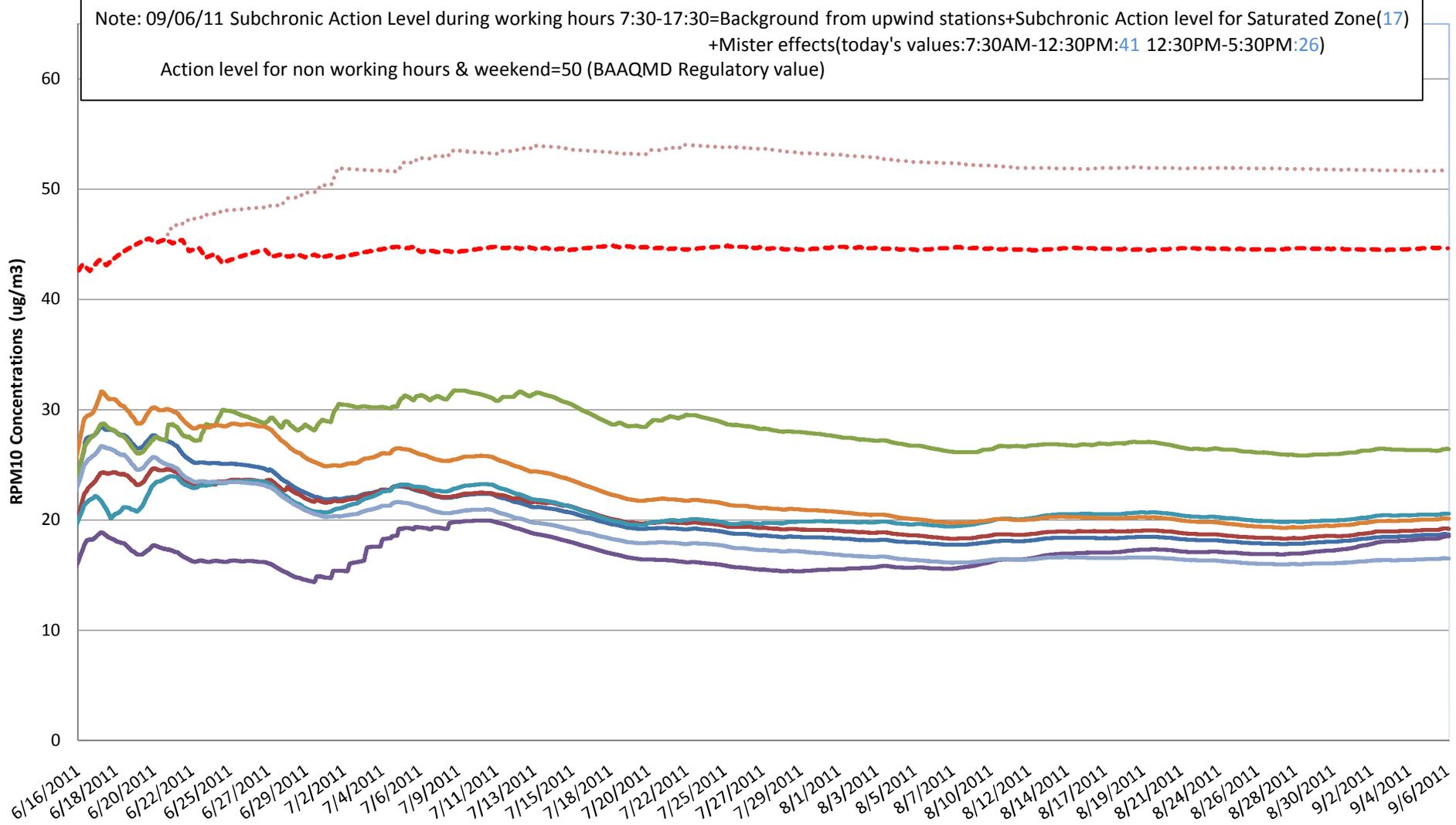
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



RPM10 Running Average Since 06/16/11

- Station 1
- Station 2
- Station 3
- Station 4
- Station 5
- Station 6
- Station 7
- Subchronic Action Level with misters
- Subchronic Action Level without misters

Note: 09/06/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Saturated Zone(17)
 +Mister effects(today's values:7:30AM-12:30PM:41 12:30PM-5:30PM:26)
 Action level for non working hours & weekend=50 (BAAQMD Regulatory value)

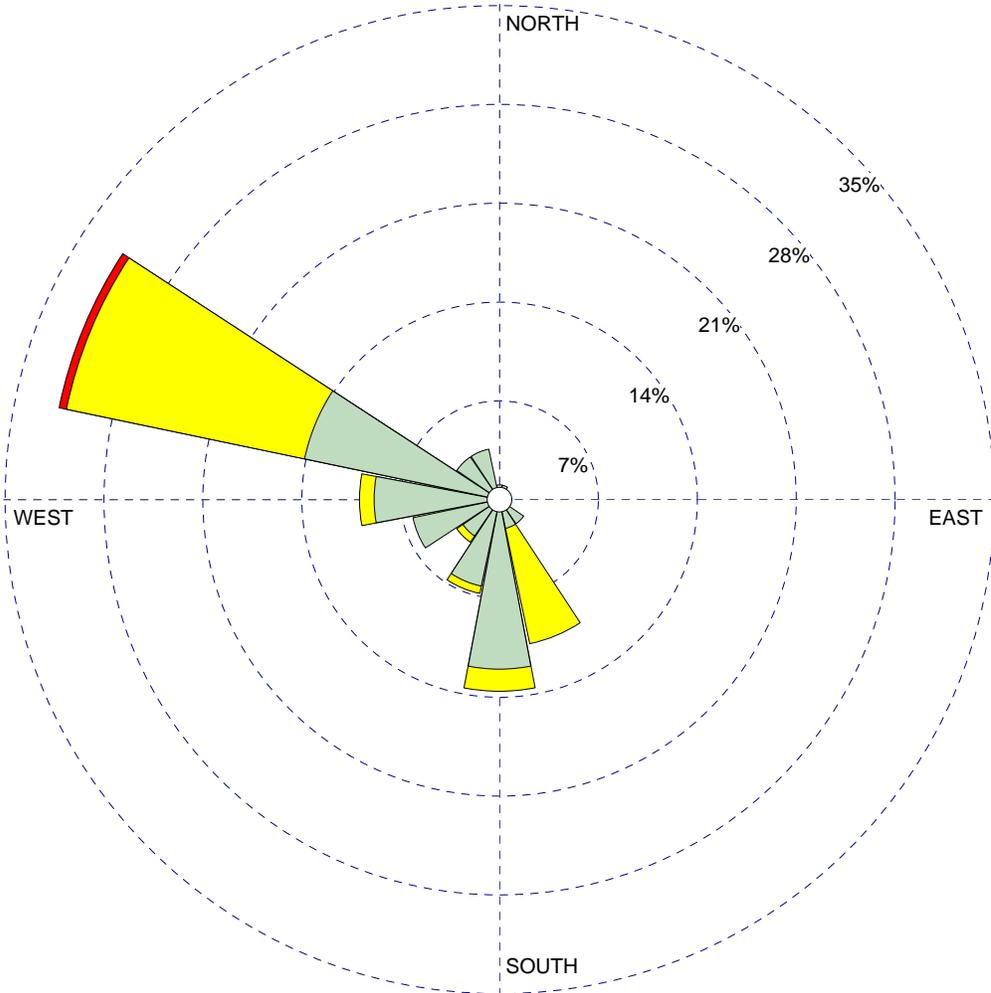


WIND ROSE PLOT:

Station #SW

DISPLAY:

**Wind Speed
Direction (blowing from)**



WIND SPEED
(m/s)

5.5 - 6.9

3.9 - 5.4

2.4 - 3.8

1.9 - 2.3

1.4 - 1.8

< 1.4

Calms: 1.30%

COMMENTS:

DATA PERIOD:

**Start Date: 8/29/2011 - 00:00
End Date: 9/4/2011 - 23:00**

COMPANY NAME:

MODELER:

CALM WINDS:

1.30%

TOTAL COUNT:

192 hrs.

AVG. WIND SPEED:

1.61 m/s

DATE:

9/7/2011

PROJECT NO.: