

# Sherwin-Williams Site Cleanup

## Emeryville, California

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Sep 22, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of September 12 and going through September 16, 2011. Following is a brief overview of site activities occurring during this period and 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 (RPM<sub>10</sub>) running averages; Total Volatile Organic Compounds (TVOC) running averages; and wind speed and direction.

### Site Activities

Site activities include:

- Dust, odor and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping) were applied to excavation, stockpiles and exclusion work areas;
- Operation of street sweeper onsite on paved areas; truck exit ramp, Halleck Truck route and on adjacent roads surrounding the site;
- Excavation and stockpiling of non-hazardous, California regulated waste and RCRA waste soil in the fourth, fifth, sixth, seventh, and eighth excavation layers (saturated zone material);
- Loading of stockpiled non-hazardous material into trucks for transport to local landfills;
- Loading of California regulated waste into railcars for transport to ECDC landfill in East Carbon, Utah;
- Backfill material was placed on the north slope on the Rifkin property lower excavation bench (elev. +0) in preparation of backfill placement and compaction into the north end of the excavation. An initial lift of compacted fill was placed on the Rifkin excavation bench  
Compaction tests were performed to ensure adequate compaction of the backfill material;
- Excavation dewatering was performed from three primary sumps ranging in elevation - 6.5 to -12. Additional dewatering was performed from trenches and excavation areas;
- Water surface elevations throughout the excavations and in the dewatering sumps are at or below elevation -2.
- The existing slurry wall (elev. +8 and below) along the eastern and upgradient area of the excavation continues to remain in place to control water inflow.
- Three additional 20,000 gallon tanks were installed to the treatment process capacity of the water treatment/dewatering system;
- Analytical testing of stockpiled material occurred during the week;
- Sampling for characterization of sidewall confirmation samples occurred during the week;



- Sampling for characterization of groundwater samples occurred from the excavation pit at 7 locations near sidewall seeps and with dewatering sumps;

### **Air Monitoring and Sampling**

- Daily calculation of perimeter air action levels based on background conditions, contributing misting dust controls and material being excavated was performed.;
- Daily calibration of the seven perimeter AMS locations;
- Daily perimeter air monitoring at seven AMS locations for RPM10 and TVOCs;
- Communication errors resulting from radio interference resulted in a minor data loss for the AMS system on September 9 through 11 and September 16. The communication errors occurred primarily overnight and over the weekend. All but a minor amount of the data was recoverable.
- 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.

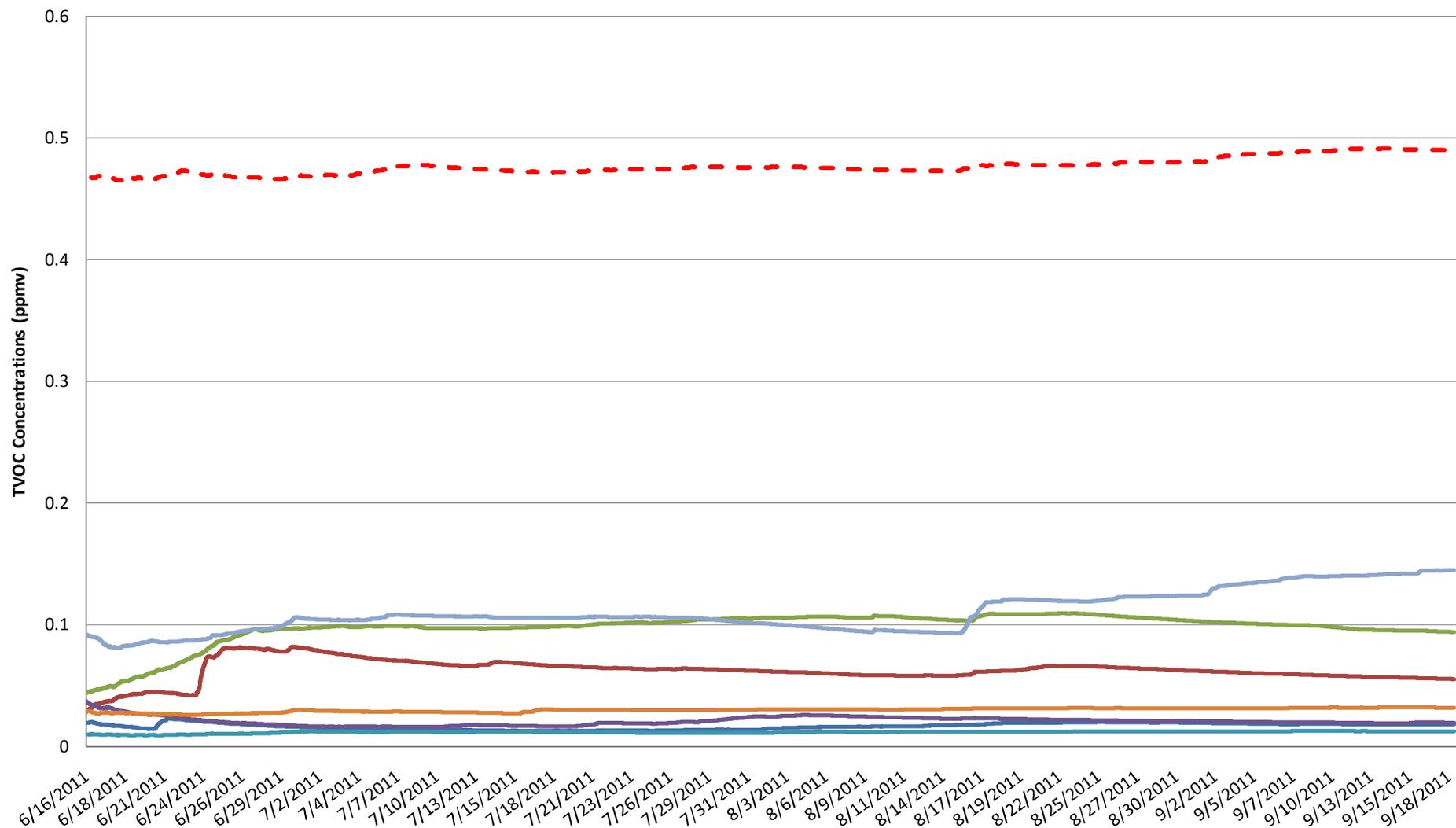
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

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)



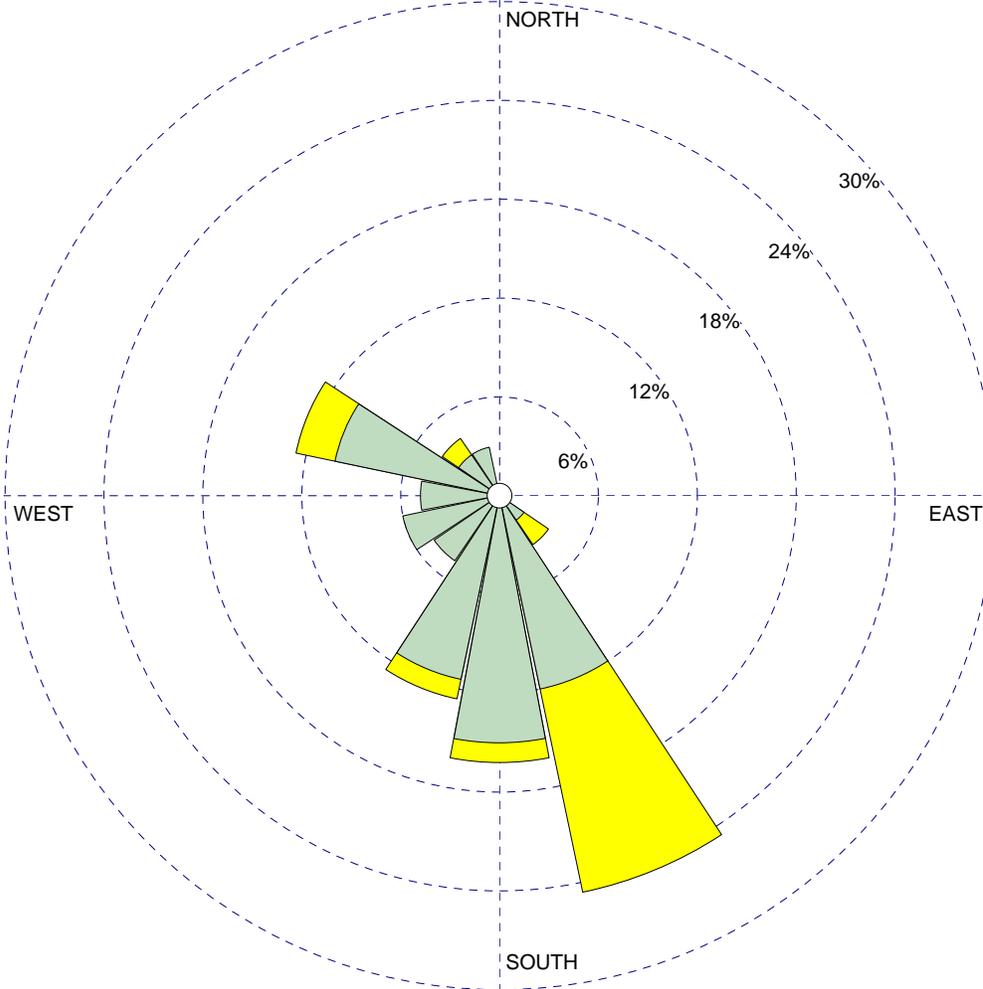


WIND ROSE PLOT:

**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: 1.79%

COMMENTS:

DATA PERIOD:

**Start Date: 9/11/2011 - 23:00  
End Date: 9/18/2011 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

**1.79%**

TOTAL COUNT:

**167 hrs.**

AVG. WIND SPEED:

**1.46 m/s**

DATE:

**9/21/2011**

PROJECT NO.: