

# Sherwin-Williams Site Cleanup

## Emeryville, California

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Nov 28, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of November 21 and going through November 25, 2011. Thursday and Friday were non-work days in observance of the Thanksgiving holiday. 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 for the week included:

- Dust controls (water, 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 during periods of truck import and export;
- Imported 115 truckloads (~2,400 tons) of soil for placement of lower hydraulic conductivity (low K) backfill fill materials;
- No material was exported;
- Backfilling and compaction into the excavation of 666 cubic yards of low permeable soil, in 6 to 12 inch lifts;
- Compaction testing was performed and met earthwork construction specification of minimum 95% of the maximum dry density of the backfill material above the water table and 90% maximum density below the water table;
- Analytical testing of stockpiled waste material occurred during the week for characterization of material for disposal;
- Confirmation side wall samples #20 through #26 were sampled from the vadose zone sidewall;
- pH monitoring of groundwater in Breach 1 and 2 risers;
- Excavation dewatering was performed from the large sump area at bottom elevation -11, located in the southwestern portion of the excavation area. Treated water from the dewatering system is discharged into the local POTW per the requirements of the Site's EBMUD discharge permit.

### Air Monitoring and Sampling

- Daily calculation of perimeter air action levels was performed, based on background conditions and level of source material being excavated;



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- Daily calibration of the seven perimeter AMS locations was performed November 21 through November 23;
- Daily perimeter real time air monitoring at seven AMS locations for RPM<sub>10</sub> and Total volatile organic compounds (TVOCs);
- Daily meteorological data is collected on site and wind speed and direction is calculated in real time to determine upwind and downwind direction. A wind rose for the week is provided below;
- No exceedances of air quality standards occurred during the week;
- Misters were not used along the Horton Street excavation during the week. No excavation of source material is occurring in the vicinity and therefore there is no need for dust and vapor controls. As such, no mister delta was incorporated into PM<sub>10</sub> action levels;
- Running averages for TVOC and PM<sub>10</sub> since the start of the project continue to be below their respective action levels at all AMSs. Charts for the running average for TVOCs and PM<sub>10</sub> are provided below.

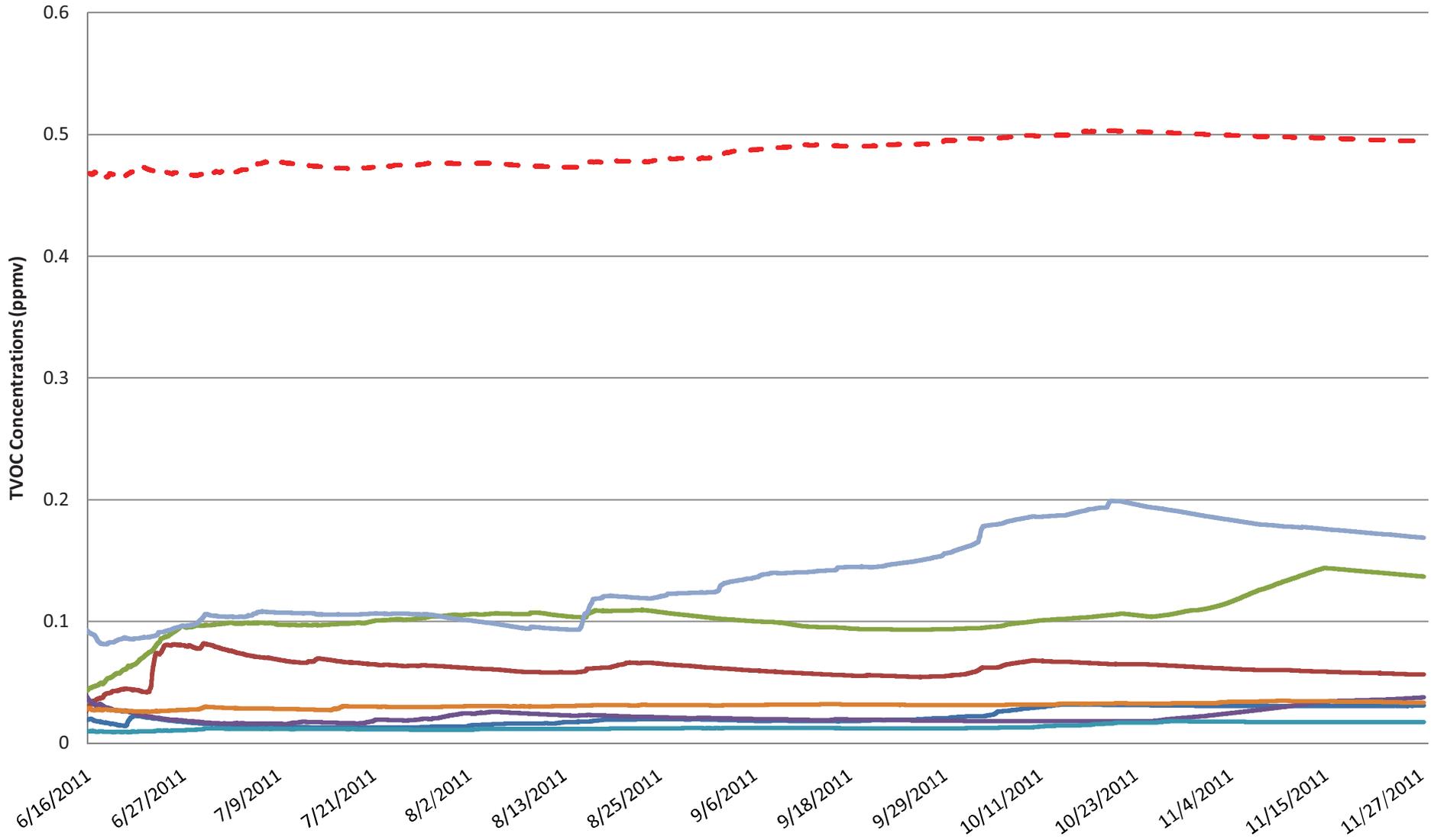
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

# TVOC Running Average 06/16/2011 through 11/27/2011

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

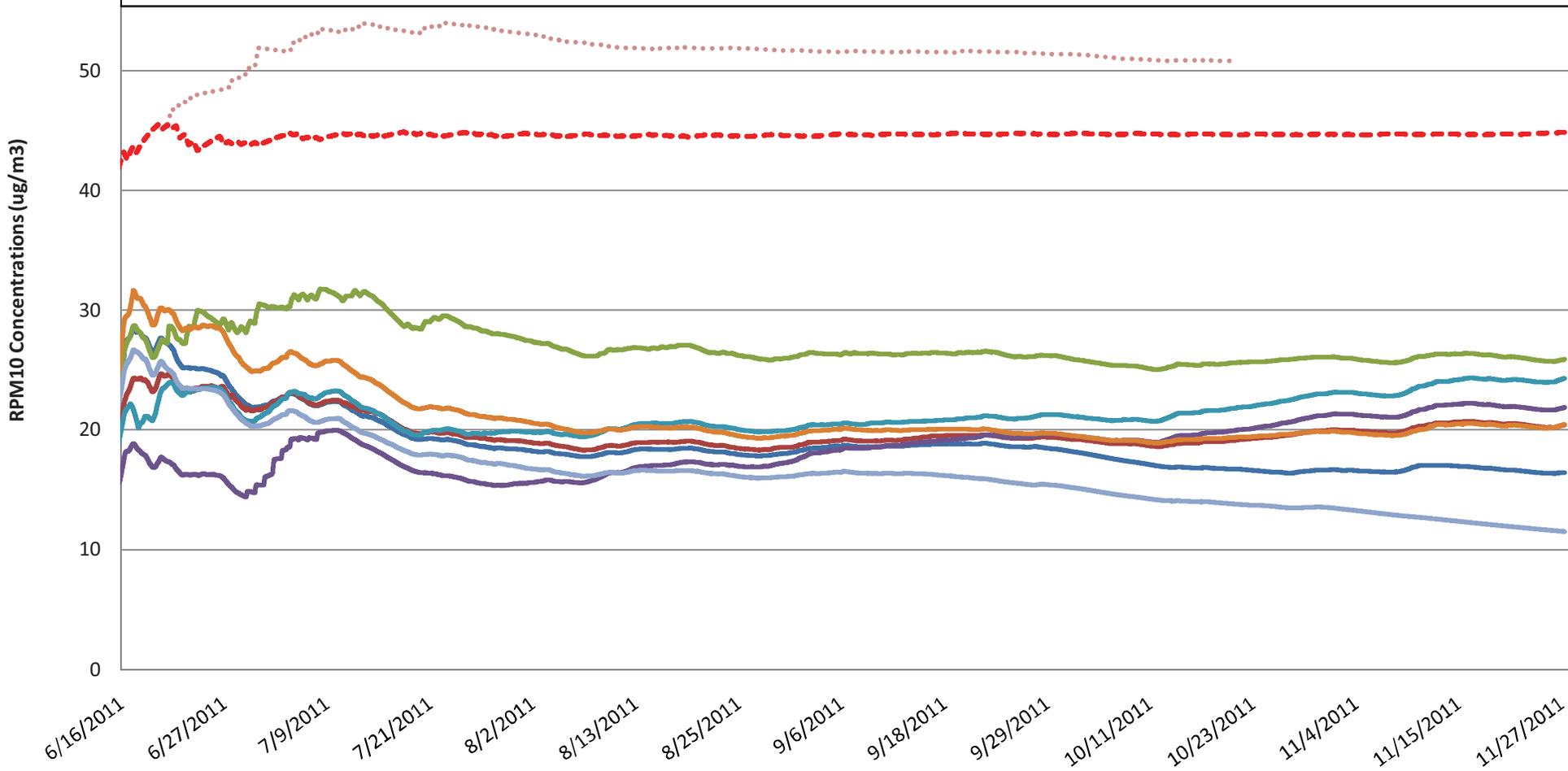
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



## RPM10 Running Average 06/16/2011 through 11/27/2011

- Station 1 (no misters)
- Station 2 (no misters)
- Station 3 (includes misters)
- Station 4 (no misters)
- Station 5 (no misters)
- Station 6 (no misters)
- Station 7 (no misters)
- ..... Subchronic Action Level with misters
- - - Subchronic Action Level without misters

Note: 11/27/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone (16) Action level for non working hours & weekend=50 (BAAQMD Regulatory value)  
 Misters use ceased on 10/20/2011 and did not recommence. Mister delta is no longer taken into account for calculation of the Subchronic-Action Level from that point forward.

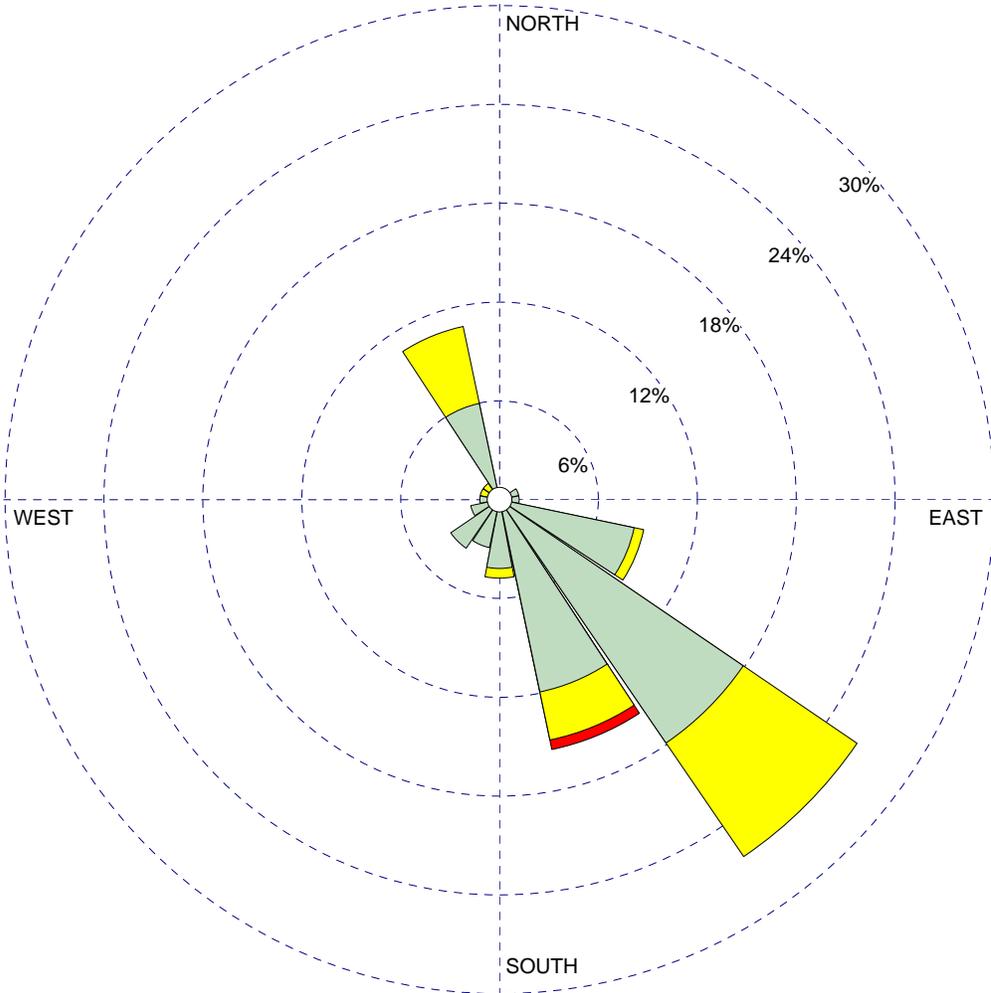


WIND ROSE PLOT:

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: 4.75%

COMMENTS:

DATA PERIOD:

Start Date: 11/21/2011 - 00:00  
End Date: 11/27/2011 - 23:00

COMPANY NAME:

MODELER:

CALM WINDS:

4.75%

TOTAL COUNT:

168 hrs.

AVG. WIND SPEED:

1.28 m/s

DATE:

11/28/2011

PROJECT NO.: