

Sherwin-Williams Site Cleanup

Emeryville, California

Dec 12, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of December 5 and going through December 9, 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 (RPM₁₀) 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, T-200, 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;
- Drain rock and compacted engineered cover were applied to Breaches #1 and #2.
- Inceptor trench excavation through Sta. 2+20 was completed on December 9. Nine GSE Curtain Wall panels were placed within the inceptor trench, for a total of 187 feet of curtain wall placed.
- Loading and export of 95 trucks (approx. 2,300 tons) of non-hazardous material for transport to local landfills;
- Imported 384 truckloads (7,400 tons) of soil for placement of lower hydraulic conductivity (low K) backfill fill materials;
- Imported 19 truckloads (360 tons) of gravel for the inceptor trench;
- Excavation of approximately 400 cubic yards of sandy side wall material on west side of excavation to complete excavation in main area. Mobile emission control units (MECs) were in use during excavation activities.
- 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;
- pH monitoring of groundwater in Breach 1 and 2 risers;
- Excavation dewatering was performed from one remaining sump at 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;
- Daily calibration of the seven perimeter AMS locations was performed December 5 through December 9;
- Daily perimeter real time air monitoring at seven AMS locations for RPM₁₀ 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;
- Data errors from computer memory errors resulted in incomplete data recording overnight from Monday, December 5 to Tuesday, December 6 in the AM. The computer was reset and data recording was restored. All data was recovered from AMS station equipment.
- Higher 4 hour rolling average PM₁₀ levels were noted site-wide during the latter portion of the week. High levels were due to high particulate levels regionally as well as high relative humidity levels (RH) that coincided with low wind-speeds.
- 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 PM₁₀ action levels;
- Running averages for TVOC and PM₁₀ 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 PM₁₀ are provided below.

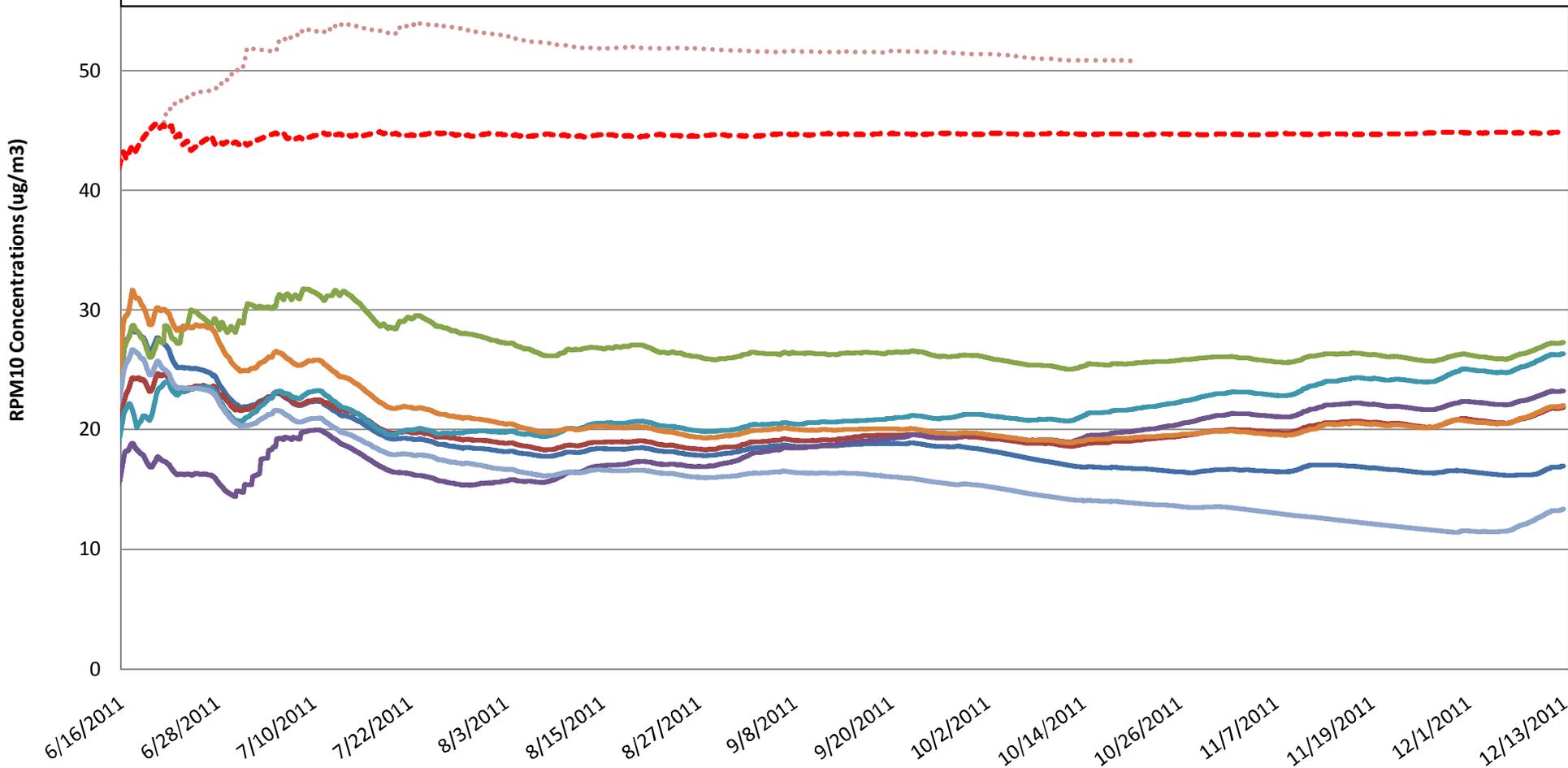
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

RPM10 Running Average 06/16/2011 through 12/12/2011

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> — Station 1 (no misters) — Station 4 (no misters) — Station 7 (no misters) | <ul style="list-style-type: none"> — Station 2 (no misters) — Station 5 (no misters) ⋯ Subchronic Action Level with misters | <ul style="list-style-type: none"> — Station 3 (includes misters) — Station 6 (no misters) - - - Subchronic Action Level without misters |
|---|---|---|

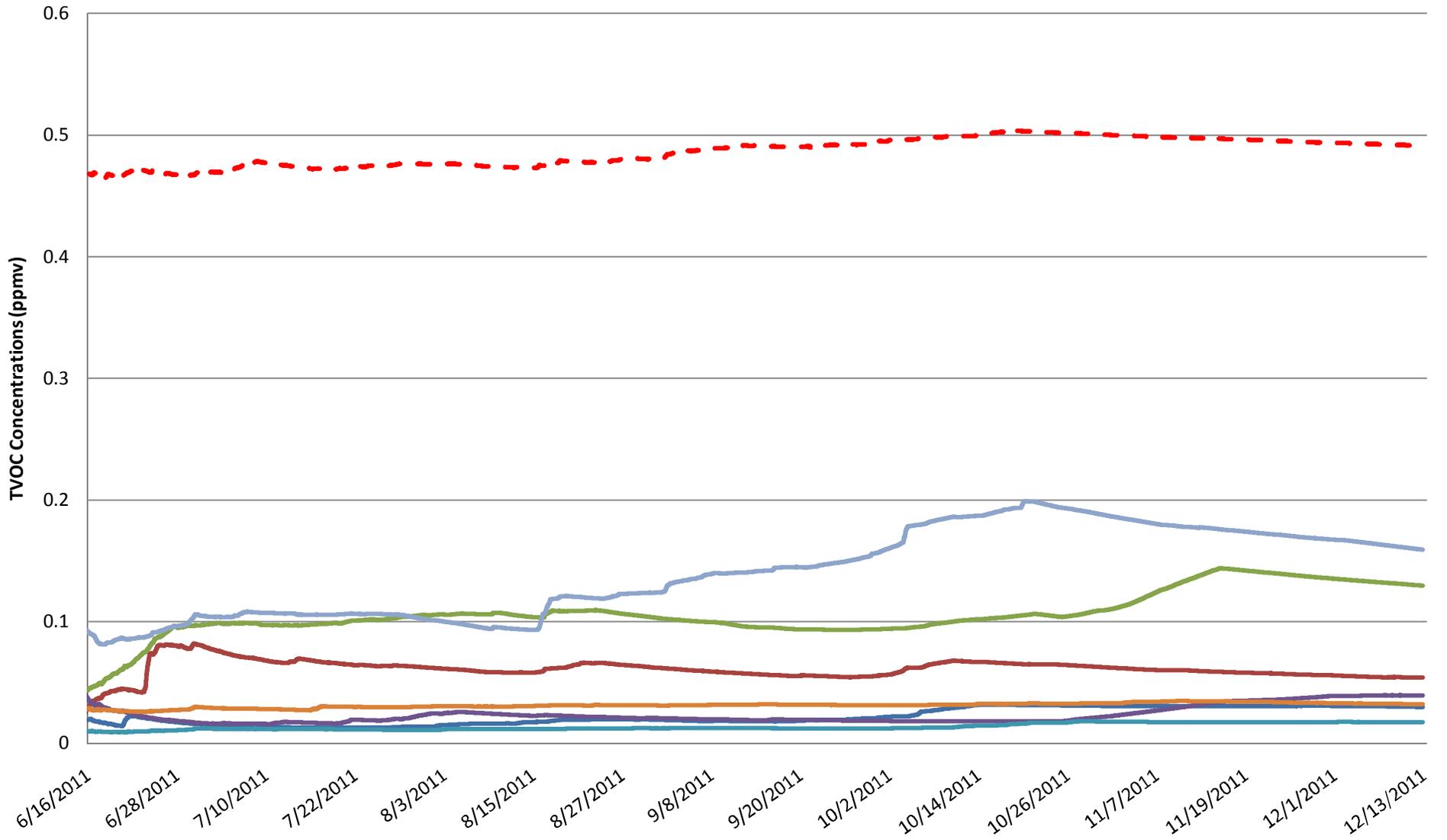
Note: 12/12/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone (16) Action level for non working hours & weekend=50 (BAAQMD Regulatory value)
 Misters use ceased on 10/20/2011 and did not recommence. Mister delta is no longer taken into account for calculation of the Subchronic-Action Level from that point forward.



TVOC Running Average 06/16/2011 through 12/12/2011

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)

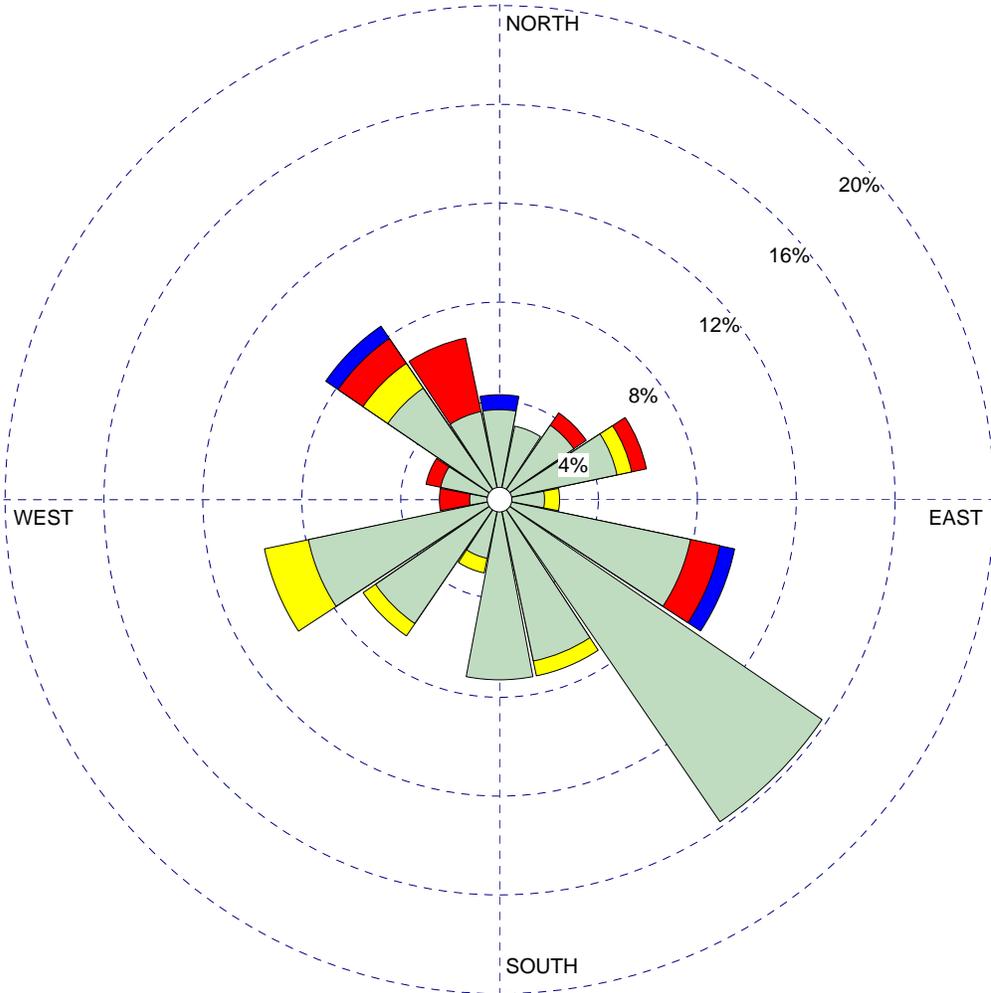


WIND ROSE PLOT:

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: 0.00%

COMMENTS:

DATA PERIOD:

**Start Date: 12/5/2011 - 00:00
End Date: 12/11/2011 - 21:00**

COMPANY NAME:

MODELER:

CALM WINDS:

0.00%

TOTAL COUNT:

165 hrs.

AVG. WIND SPEED:

0.77 m/s

DATE:

12/19/2011

PROJECT NO.: