

Monthly Project Activities Summary Report
Sherwin-Williams Emeryville Facility, Emeryville, CA
Per DTSC Order IS/E 05/06-007
February 2012

1. Community Safety Plan

Current version is always available at the DTSC Envirostor, [click here](#). Current version was last updated on April 26, 2011.

2. Soil Excavation, Off-Site Transport and Water Treatment

The following non-excavation activities were performed at the Site during February.

- Dust, vapor, and odor control measures continued to be implemented onsite, consistent with recent months. Control measures in February included: localized use of windscreens, water, and dust suppressants, and covering waste material stockpiles with plastic sheeting.
- Entrance and exit to and from the exclusion zone continued to be controlled to assure proper personal protective equipment and decontamination of vehicles and equipment is followed.
- Street sweeping of truck haul routes both on and off the Site and Sherwin Street (not part of truck haul route) continued to occur on days when trucks were importing and/or exporting soils. Onsite paved surfaces no longer in use were cleaned in preparation for modifying storm water management controls.
- A total of approximately 2,400 tons of clean low hydraulic conductivity backfill soil (low k material) were imported in February. The low k material was temporarily stockpiled within the area backfill with similar clean materials. It was used to complete backfill activities.
- A total of approximately 3,300 tons of gravel were imported in February for final gravel cover of backfill areas.
- A total of approximately 2,400 tons of Class II ¾ inch aggregate base were imported in February for reconstruction of the parking lot on the former Rifkin property and for slurry wall extension (SWE) cap installation.
- Decommissioning and demolition of the wastewater treatment plant (WTP), initiated in January, were completed by the end of February. This activity was sequenced such that treatment of onsite wastewater, from excavation dewatering and storm water management controls, continued; treated water was discharged to the sanitary sewer through the EBMUD Permit. All waste streams from the WTP demolition were segregated by process and waste handling identifiers, and characterized for disposal. Waste material included Category 4 RCRA hazardous waste, Category 2 non-RCRA hazardous waste, and non-hazardous waste. The Category 4 RCRA hazardous waste included certain residual material removed from process tanks, debris from the tanks

and piping associated with these materials, and spent carbon from the treatment process. Category 2 non-RCRA hazardous waste included certain residual material removed from process tanks and debris from the tanks and piping associated with these materials. The non-hazardous material included building material debris generated from demolition of the WTP building. Other materials, including packaged treatment plant chemical waste and lead based paint removed from the WTP structures, were stored in drums for disposal pending characterization and profiling. Following demolition the WTP, the concrete foundation was pressure washed and subsequently (in early March) removed.

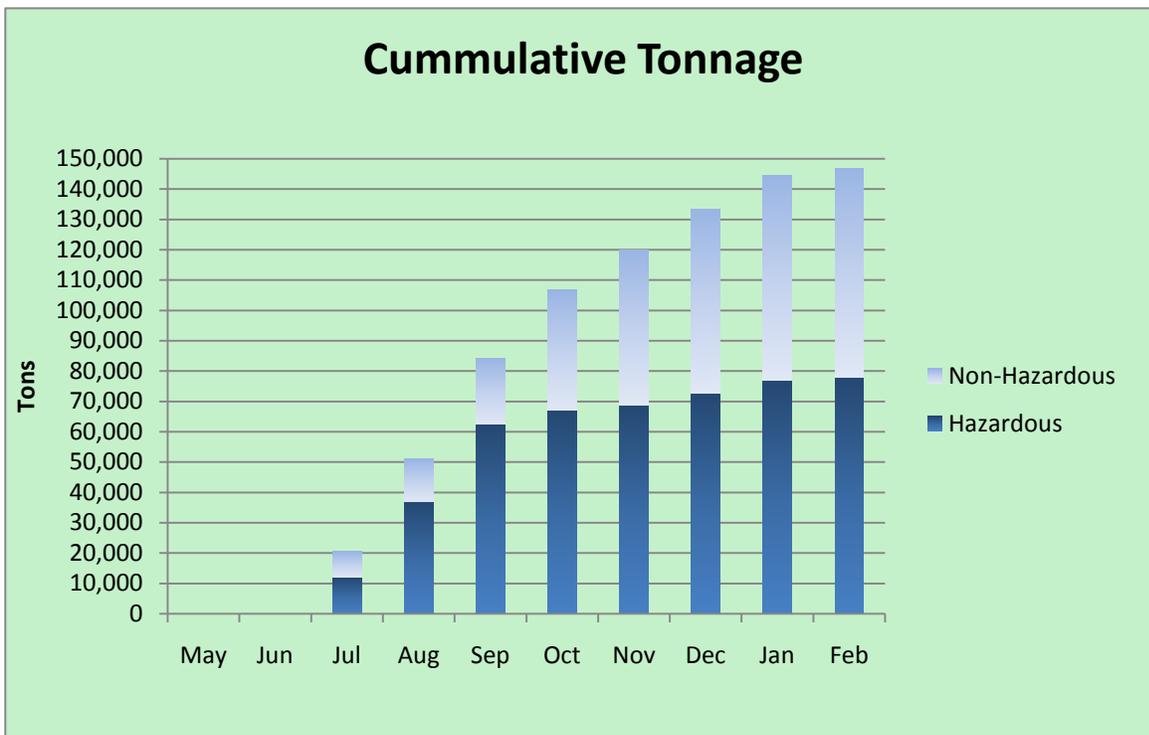
- Restoration of the south end of the Novartis parking lot (former Rifkin property) was completed. Parking light poles and emergency call station were replaced. Asphalt paving and parking lot striping was completed. Fencing was replaced. The south gate of the parking lot was restored to use.
- On February 23, three new monitoring wells were installed along the western perimeter of the Site.
- As planned, a former UST located near Building 31 was exposed, flushed, filled with neat cement and abandoned in place. The work was performed under the oversight of Alameda County Environmental Health and DTSC.

The following excavation activities were performed at the Site during February:

- Soil handling activities during the month of February consisted of removing soils surrounding the former UST, remaining subsurface storm drain utilities, and the railroad line adjacent to Building 31. Perimeter air monitoring operations were maintained during these activities.
- Portions of the large concrete pad (the former Building 35), used throughout the project for soil handling and stockpiling, was cleared of remaining materials and cleaned.
- 32 truckloads of Category 2 materials (approximately 715 tons) were loaded and transported to WSG San Francisco Rail Yard for transport to ECDC Landfill in East Carbon, Utah.
- 78 truckloads (approximately 1,735 tons) of Category 1 materials were loaded and transported to local landfills.
- 3 truckloads (roll off bins approximately 70 tons) of Category 4 materials were transported to WSG San Francisco Rail Yard for transport to the US Ecology hazardous waste disposal facility in Grandview Idaho. These materials were from the WTP demolition.
- Approximately 465 tons of concrete and asphalt rubble were transported offsite in February for recycling.

- Throughout February, waste material was segregated and stockpiled by material types prior to sampling and loading for offsite transport and disposal. The chart below shows accumulated amounts of excavated waste transported offsite through the end of February 2012. The total hazardous waste amount for the project through February is approximately 77,925 tons. The total non-hazardous waste amount for the project through February is approximately 69,005 tons. The combined total waste amount is approximately 146,930 tons for the project through February; this value exceeds the original estimated waste amount of approximately 130,000 tons at the start of the project.

Excavated materials transported offsite (in accumulated tons by month):



	<u>Loads in Feb.</u>	<u>Total Loads to Date</u>
Total trucks with non-hazardous waste loads out:	78	2,793
Total trucks with non-RCRA hazardous waste loads out:	32	210
Total trucks with RCRA hazardous waste loads out:	3	3
Total rail cars with RCRA hazardous waste loads out:	0	180
Total rail cars with non-RCRA hazardous waste loads out:	0	502

The following groundwater extraction and treatment activities and storm water management activities were performed at the Site during February:

- The EBMUD Permit was utilized for Site wastewater discharge. Water generated during RDIP implementation activities was transferred to the onsite water treatment system, treated, and discharged to the sanitary sewer in accordance the EBMUD Permit. Routine treatment system flow monitoring and maintenance activities were conducted throughout February 2012. Approximately 40,000 gallons of water were treated and discharged to the sewer during the month of February 2012. On February 21, 2012, a sample of the system effluent was collected and submitted to a certified laboratory for analysis in accordance with the EBMUD Permit reporting requirements.
- A notice of termination for the NPDES Permit was submitted to the RWQCB on December 23, 2011. The last day of discharge, and effective termination date of the NPDES Permit, was June 30, 2011.
- Performed monthly (during construction) water level monitoring activities.
- Performed quarterly (during construction) water sampling event in 7 wells per RDIP. In addition, wells LF-24 and LF-25 located on UPRR property were sampled in February 2012, outside of the monitoring program schedule presented in the RDIP.
- The City of Emeryville noted no deficiencies during their periodic storm water management inspections in February and had no objections to restoring storm water discharge to Temescal Creek (scheduled for early March).

3. Perimeter Air Monitoring Results

- Seven real-time air monitoring stations (AMS) surround the site and measure respirable particulate matter less than 10 micrometers (RPM10) in size and total volatile organic compounds (TVOC) concentrations continuously. A weather station is operating and monitoring wind speed and direction, temperature and relative humidity. Perimeter air monitoring for dust and total volatile organics were performed continuously, seven days a week, 24 hours a day, throughout the month of February 2012, with minor interruptions as described below.
- Daily calculation of perimeter air action levels was performed, based on background conditions and level of source material being excavated during February.
- Calibration of the seven perimeter AMS locations was performed routinely throughout each week during February.
- Daily perimeter real-time air monitoring at seven AMS locations for RPM10 and Total volatile organic compounds (TVOCs) was conducted routinely during February with the following conditions as described below.

- Daily meteorological data is collected onsite and wind speed and direction is calculated in real-time to determine upwind and downwind direction. A wind rose for February is provided below.
- Running averages for TVOC and RPM10 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.
- The dust meter from AMS #7 malfunctioned on February 11 between 9:30 am and 11:30 am. The dust meter was recalibrated on February 11 which resolved the problem and the meter has functioned normally since recalibration.
- Site power was temporarily turned off from around 8:30 AM on February 21 until mid-afternoon February 24. This planned power interruption was coordinated with PG&E because the high voltage transformer for the Site is located above the north end of the former UST, and the transformer had to be de-energized during closure activities for the former UST. During power interruption, the perimeter air monitoring data could not be accessed in real-time, as the monitoring system was not able to communicate to the computer system. The PID and dust meters remained operational and recorded data at all air monitoring stations, except for air monitoring station #4, which runs on supplied electricity instead of solar power like the others. Data were manually downloaded on February 28 for air quality reporting.
- RPM10 and TVPOC readings were taken at breathing level with hand-held units near the former UST area during excavation work conducted between February 21 and February 23 (during planned power outage); the readings were below action levels.
- Calibrations of the seven perimeter AMS locations were performed on February 21 and February 23 during the planned power outage and interruption of data transmission to the AMS data server.
- Perimeter misters have not been used since November when excavation of source material was completed. Since then dust and vapor controls have been conducted locally wherever any excavation or stockpiling activity performed. As such, no mister delta was incorporated into PM10 action levels for the month of February.
- DTSC approved the termination of daily perimeter air sampling in August 2011 due to the effectiveness of dust and vapor control measures as verified by real-time monitoring and its correlation with perimeter air sampling. For the remaining project duration, perimeter air sampling will be performed if levels of TVOC/metals concentrations are anticipated above protection thresholds in the excavation area or if real-time monitoring approaches action levels.
- Weekly reports presenting the perimeter air monitoring results have been posted to the DTSC website through the month of February. Daily reports presenting perimeter air monitoring results have been posted on the community board at the corner of Sherwin and Horton Streets through the month of February.

- As presented in the daily and weekly reporting, no exceedances of action levels occurred during the month. Air Quality charts showing running averages through the end of February are provided in the attached Figure 1 and 2.
- Wind rose data are generated daily from the site weather data station. A cumulative wind rose for the month of February is shown in Figure 3.

4. Other Project Activity

- Reconstruction of the parking lot section on the Novartis property continued during February and will be completed in early March.
- Planned power interruption to the Site, due to the excavation activities adjacent to the large transformer onsite, necessitated the use of portable power lights for security purposes during the week of February 20.

5. Coming Up Next in March

- Remaining excavation activity includes: completion of the slurry wall extension cap installation during the first weeks of March.
- Materials transported offsite during March are projected to consist primarily of waste material from the decommissioning of the WTP for transport and offsite disposal. These materials will be transported offsite by truck. Some Category 4 material related to the demolition of the WTP (drummed sludge, spent carbon and chemical waste) will also be transported offsite by truck. As with previous activities, all offsite transport will be conducted in accordance with federal, state, and local regulations and with DTSC concurrence.
- Following completion of the final cover and implementation of the drainage design plans, discharge of storm water into Temescal Creek will be re-established.
- Complete permanent perimeter site fencing.
- Complete restoration of parking lot on the Novartis property.
- Dust and vapor control, and perimeter air monitoring will continue while remediation activities are present at the site.
- Continue operating EBMUD pre-treatment system to treat miscellaneous water generated during site decommissioning operations.

- Decommission and remove water treatment equipment; Complete removal of the former WTP foundation.
- Perform monthly (during construction) water level monitoring event per RDIP.
- Submit water discharge report to EBMUD.
- The community 'hotline' 24-hour answering service will be discontinued following demobilization in March.

6. Communication

- The project team is committed to responding to direct communication from community members.
- A presentation by Sherwin Williams on the status of the project was conducted for the Park Avenue District Committee on February 8, 2012.

7. Community Telephone Complaint Hotline

- One call was received on February 21, 2012 at 7:00 pm. The caller complaint/issue was "Work past the allowed time frame and the noise, dust etc. was unacceptable." The call was received on the evening generators powering portable lights were operating to support night-time security due to the planned interruption to site power. The former UST abandonment work next to the facility power transformer work necessitated the shutting down of all electrical power including site security lighting for the period between February 21 and February 23. No site work was being performed after regular hours, and there was no dust generated from site activity or generator operations. The generator noise was baffled as well as possible during the temporary operation. Project staff spoke with the caller and explained the situation.

For Project information, contact:

Nathan Schumacher, DTSC: 866-495-5651 (Mon-Friday, work hours)

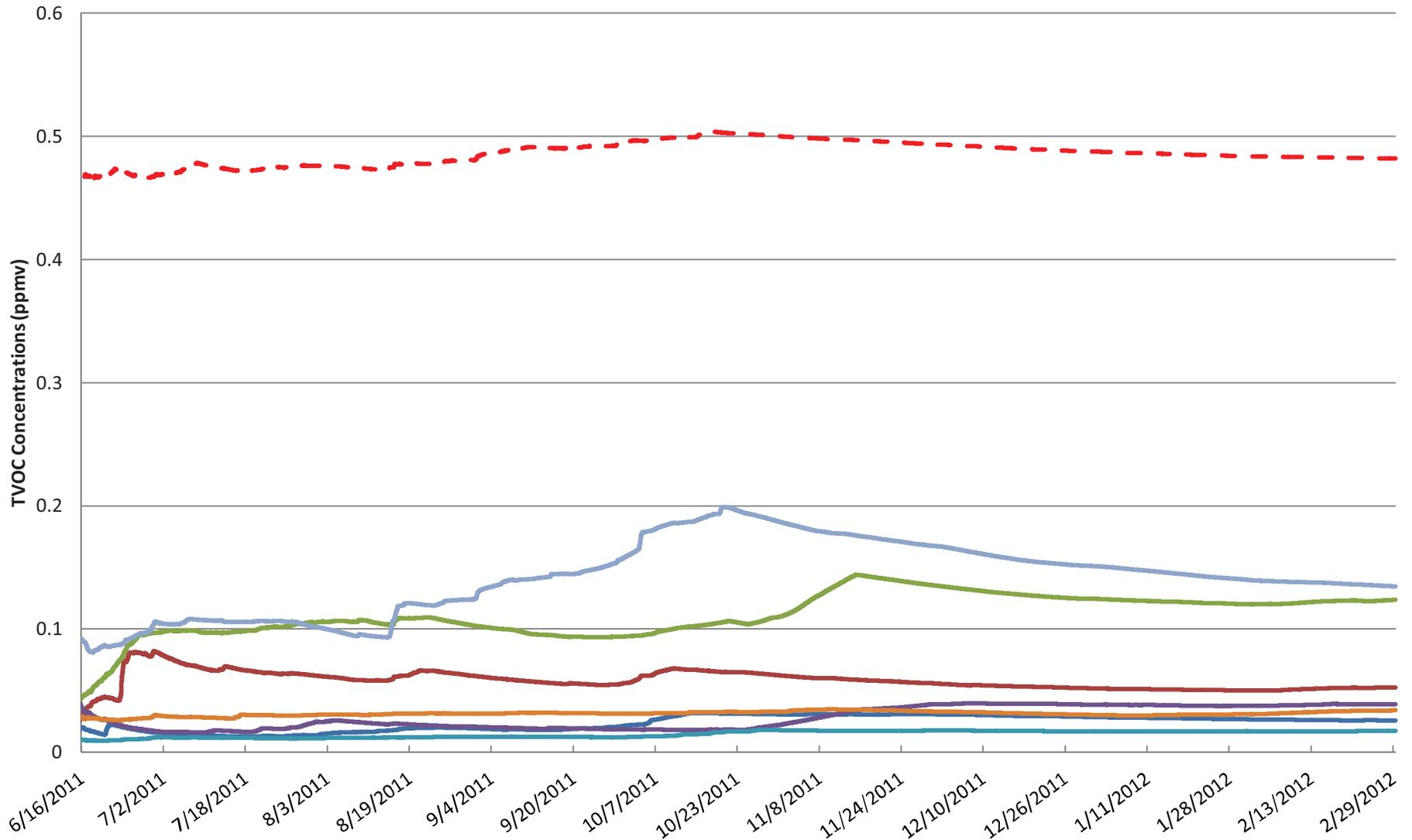
To register a concern/complaint about the project activities, contact:

Project Complaint Hotline: 866-848-5307 (24 hrs/day)

TVOC Running Average 06/16/2011 through 2/29/2012

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

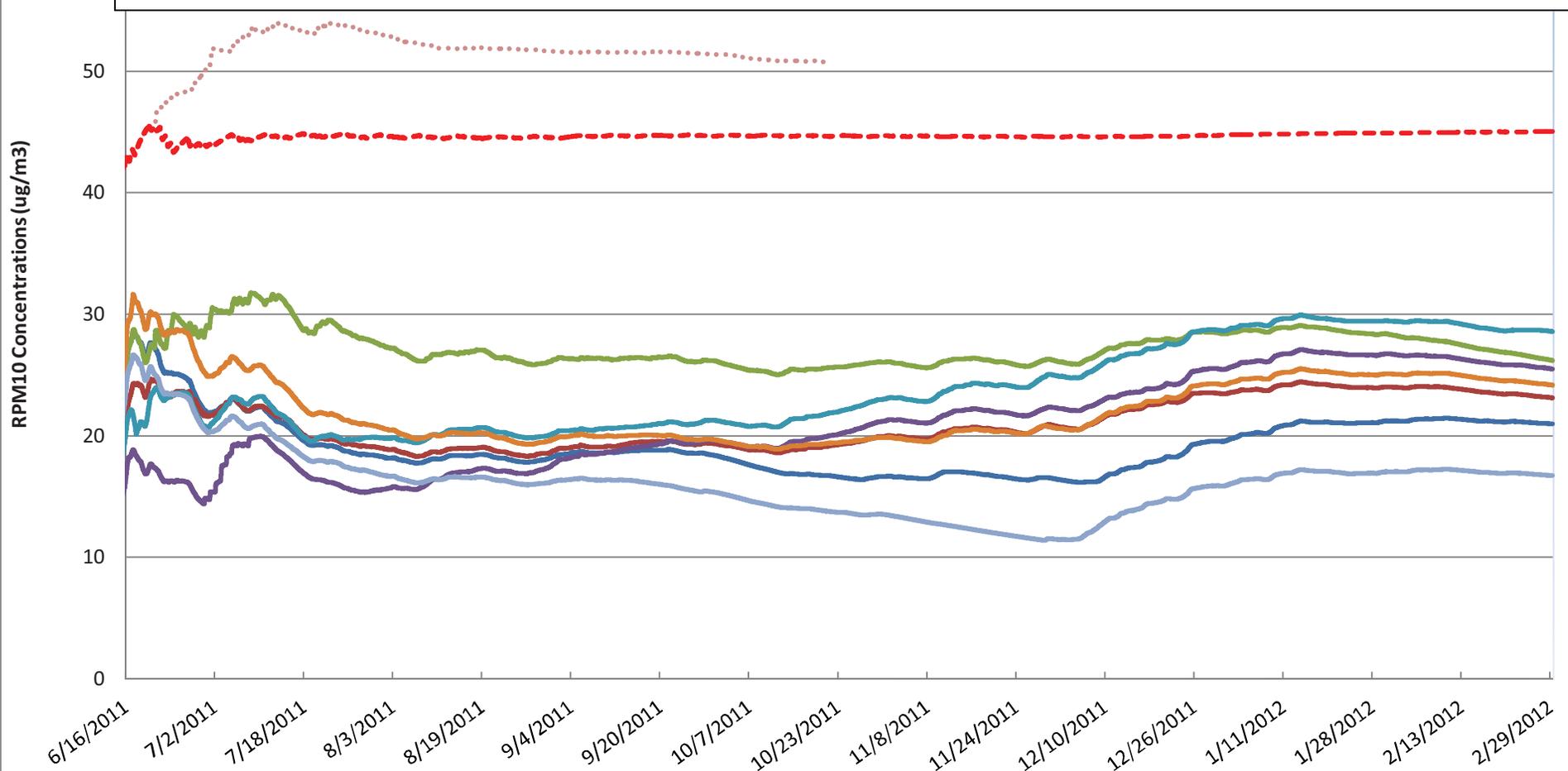
Note: Subchronic Action level=Background from upwind stations+subchronic performance standard(0.437)



RPM10 Running Average 06/16/2011 through 2/29/2012

- 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: 2/29/12 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.

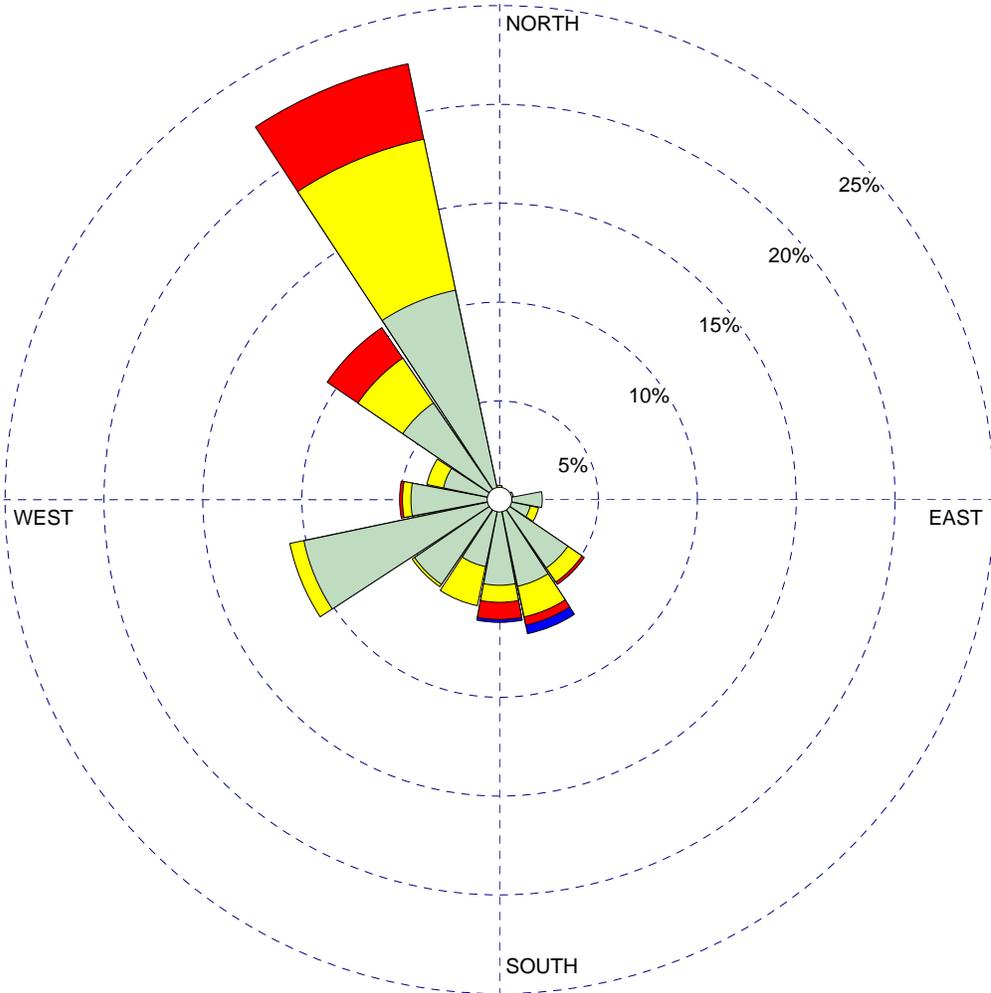


WIND ROSE PLOT:

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: 2.98%

COMMENTS:

DATA PERIOD:

**Start Date: 2/1/2012 - 00:00
End Date: 2/29/2012 - 23:00**

COMPANY NAME:

MODELER:

CALM WINDS:

2.98%

TOTAL COUNT:

694 hrs.

AVG. WIND SPEED:

1.63 m/s

DATE:

3/5/2012

PROJECT NO.: