

Sherwin-Williams Site Cleanup

Emeryville, California

Aug 25, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of August 15 and going through August 19, 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.

Site Activities

Site activities include:

- Dust and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping);
- Misters were lowered as the excavation is at lower elevations.;
- Installation and testing of shoring wall tie-backs was performed;
- SVE “knock out” water” in Denbeste tank was removed offsite.
- Operation of street sweeper onsite and on adjacent roads;
- Excavation and stockpiling of soil and debris (concrete, steel) in the third, fourth, fifth, and sixth excavation layers (saturated zone material beneath the raised cap);
- Stockpiling of non-hazardous material into trucks for transport to local landfills;
- Stockpiling and loading of California regulated waste into railcars for transport to ECDC landfill in East Carbon, Utah;
- Thirty Four rail cars were loaded with CAL hazwaste going to ECDC. A full unit train of 75 railcars went out from the Oakland rail yard on Friday August 19, 2011 to ECDC.
- Stockpiling and loading of RCRA regulated waste into railcars for transport to USE in Grandview Idaho;
- Twelve railcars were loaded with RCRA hazwaste for transport to USE, in Grandview Idaho.
- Loading of clean backfill material onto buttresses adjacent to historic building;
- Mixing of Zorbix, a dewatering agent into, stockpiles with saturated zone materials for stabilization and runoff water control;
- Operation of the excavation dewatering system;
- Sampling of stockpiled material occurred during the week;

Air Monitoring and Sampling

- Daily calculation of misting delta during morning and afternoon, setting of daily action levels based on background conditions and material being excavated;
- Daily calibration of seven 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 August 16 and August 17. The communication errors occurred overnight and did not affect monitoring during work hours. The data was recovered.
- Field personnel observed odors and personal PID registered VOC readings during excavation in the saturated material on Tuesday August 16, 2011 and Thursday August 18, 2011. VOC levels did not exceed acute or subchronic action levels at the perimeter air monitoring stations. Nevertheless, additional engineering controls and increased personal protection equipment was employed upon discovery.
- 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.

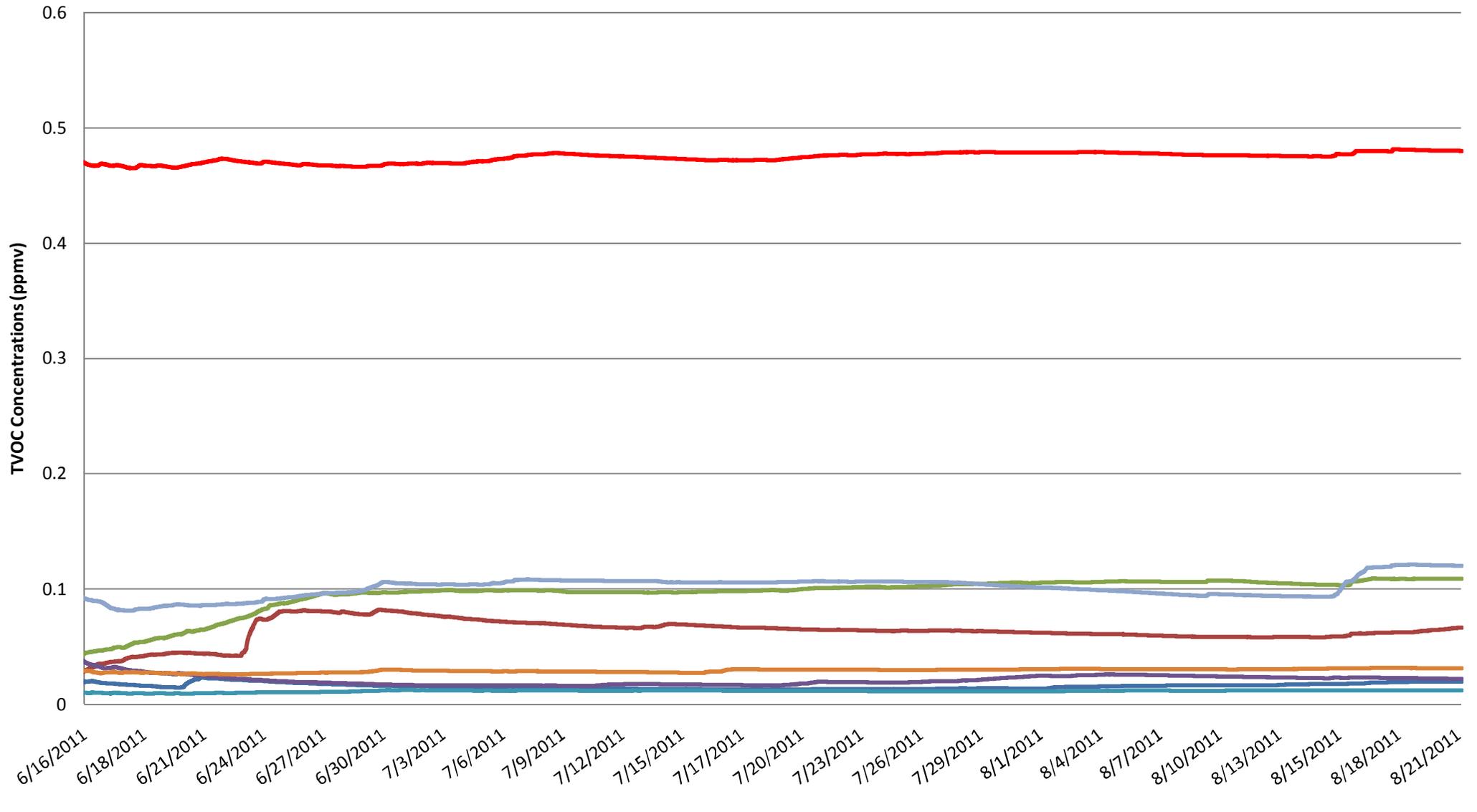
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

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: 08/19/11 Subchronic Action Level during working hours 7:30-17:30=Background from upwind stations+Subchronic Action level for Vadose Zone(16) +Mister effects(today's values:7:30AM-12:30PM:15 12:30PM-5:30PM:12)
 Action level for non working hours & weekend=50 (BAAQMD Regulatory value)

