



Linda S. Adams
Secretary for
Environmental Protection



Department of Toxic Substances Control

Maureen F. Gorsen, Director
700 Heinz Avenue
Berkeley, California 94710-2721



Arnold Schwarzenegger
Governor

DTSC STATUS REPORT UPDATE

South Richmond Shoreline Sites

August 14, 2008

(Final)

The purpose of this update is to inform the community of activities that have occurred since July 10, 2008 and activities that are expected to occur in the next 30 days at the South Richmond Shoreline Sites.

Zeneca/Former Stauffer Chemical Site

Activities Completed:

- Soil excavation and backfill activities in the Lot 1 PCB/VOC area were completed on August 8, 2008. Additional site clean-up and restoration activities in the Lot 1 PCB/VOC area are being performed the week of August 11, 2008. In total, approximately 120 truckloads of soil were excavated and off-hauled from the site; the actual tonnage of soil will be verified with weight tickets from the landfills. Final confirmation soil sample results demonstrate that the PCB/VOC area remediation goals were achieved.
- Maintenance activities were conducted in East Stege Marsh and Lots 2 and 3.
- Groundwater monitoring activities for the third quarter of 2008 occurred the week of August 4, 2008. The two new wells and the new piezometer on Lot 3 were sampled as part of this monitoring event. The samples are collected to monitor groundwater conditions at the site.
- A report containing the results of the sampling conducted at the Southeast Parcel was submitted to DTSC for review on July 25, 2008.
- An assessment of beryllium at the Campus Bay Site was submitted to DTSC in a letter, dated August 8, 2008. This document has been uploaded in Envirostor, but has not yet been reviewed by DTSC.
- DTSC is reviewing the response to comments on the draft Human Health Risk Assessment (Risk Assessment) submitted by the Responsible Parties.
- DTSC completed its review of the report discussing the results of the Groundwater Pilot Study and provided comments to the Responsible Parties in a letter dated July 23, 2008. The groundwater pilot study was conducted to test and compare different methods to treat contaminated groundwater.
- DTSC is reviewing the report describing the Lot 3 additional field samples collected in December 2007. Grab groundwater samples were collected from 6 locations and soil gas samples were collected from 2 locations. The purpose of

the sampling was to collect additional information to be used in preparing the draft Feasibility Study and Remedial Action Plan.

- DTSC completed its review of the draft feasibility study and remedial action plan for Lots 1, 2, and 3 and provided comments to the Responsible Parties in a letter dated July 30, 2008.

Activities Proposed for the Next 30-days:

- On-going maintenance activities will be occurring in East Stege Marsh and at Lots 2 and 3.
- Revisions to the Lot 2 Soil Stockpiling Work plan will be submitted to DTSC for review and approval.
- The report describing the additional pore water sampling will be submitted to DTSC for review and approval. Additional pore water was collected to determine whether there was any seasonal variation in the concentration and quantity of pore water.
- DTSC will review the Second Quarter 2008 Groundwater and Surface Water Monitoring Report, received on August 5, 2008. The report contains the results of the groundwater monitoring that was conducted in May 2008.
- Soil sampling to collect additional samples for radiological analysis was completed on June 30 and July 1, 2008. Results will be reported in September 2008

Harbor Front Site (businesses to the east of Zeneca Site)

Activities Completed:

- Weiss Associates prepared a report describing the results of radionuclide sampling of soil and groundwater at the site and at off-site locations. The results indicated that Radium-226 in groundwater samples on-site ranged from 0.0702 to 2.35 picoCuries per gram (pCi/g). Groundwater samples were also analyzed for Uranium-234, -235, -238, and total Uranium. All samples analyzed were below their Maximum Contaminant Levels (MCLs) for drinking water. Soil samples were analyzed for Uranium-234, -235 and -238. None of the samples collected exceeded their U.S Environmental Protection Agency Residential Preliminary Remediation Goals (PRGs). The report is available on DTSC's EnviroStor web site.

Activities Proposed for the Next 30-days:

- Weiss Associates prepared the draft sampling report describing the field work conducted on May 22 and 23rd to investigate the Former Pacific Hard Chrome Site located at 1305 South 51st Street. A limited access sampling rig was used to collect soil and groundwater samples from the rear of the property and one

sample was collected from the parking area in the front of the property. DTSC will be reviewing the report.

UC Richmond Field Station

- DTSC met with University of California (UC) staff to discuss the comments and responses to the Current Conditions Report. The report describes current and historical uses of the property, a summary of previous site investigation and remediation activities, a conceptual site model, and identifies data gaps.
- UC revised and DTSC will be reviewing the draft Memorandum for a Time-Critical Removal Action at Two Campfire Locations in the Western Transition Area. Based on soil data collected from the Western Transition Area (areas upland of the West Stege Marsh) in January and after consultation with U.S. EPA, DTSC has requested UC to remove two ash piles as a Time Critical Removal Action. Two isolated areas containing ash piles were found containing elevated levels of total PCBs (1.77 and 80.4 parts per million).

Bio-Rad Laboratories

- Bio-Rad submitted two additional treatability study workplans (in-situ groundwater technologies and soil vapor extraction) on August 6, 2008 that will evaluate additional technologies to enhance the removal of contaminants from soil and groundwater in conjunction with the existing groundwater extraction and treatment system.
- DTSC is reviewing the Semi-Annual Groundwater Monitoring Report that includes groundwater and surface water data.

Marina Bay Area –

West Shores Area – DTSC is working with the Developer and the City of Richmond to address the remaining soils with contamination above unrestricted levels.

Marina Bay Area T – DTSC approved an Amendment to the existing Remedial Action Plan (Draft RAP Amendment) and Notice of Exemption, which addresses the removal of the free floating petroleum at Area T. The free floating petroleum is currently being monitored on a bi-weekly basis and has only been seen in one well at the site. The implementation of the RAP Amendment will begin the week of August 25, 2008. A work notice will be issued to the community before work begins.

Operation and Maintenance Agreement – The Operation and Maintenance Agreement is on hold pending completion of the Five Year Review of all of the deed restricted parcels except Areas FM and T. The areas covered by the proposed Operation and Maintenance Agreement consist of roadways and parks where contamination was consolidated and capped in place.

Five Year Review - DTSC approved the Five Year Review Workplan for the capped areas at Marina Bay. These areas include Vincent Park, Shimada Park, Peninsula Drive, Area V, Area E (Boat Ramp Parking Lot), Regatta Boulevard and Marina Way South. Soil gas sampling was conducted at three areas (Area V, Shimada Park and Peninsula Drive) and cap inspections were conducted at all seven areas. A Work Notice was issued prior to conducting the soil gas sampling. The Draft Five-Year Review will be submitted to DTSC in Early October 2008.

Harbour Way South – Former Richmond Plating Site, 738 Harbour Way South – DTSC approved an amendment to the existing Remedial Action Plan to allow for excavation and off-site disposal of the contaminated soils, and in-situ treatment of the groundwater to help break down the remaining solvents. Soil excavation was completed at the end of June and the site has been re-paved.

Liquid Gold – Biannual groundwater monitoring is performed at the site, and consists of collecting groundwater samples from six shallow groundwater monitoring wells, in and around the capped and deed-restricted area on the Liquid Gold Site. Groundwater samples are analyzed for total petroleum hydrocarbons and metals. The next groundwater monitoring event will be conducted in the fall of 2009. Biannual Groundwater Monitoring Reports are available on DTSC's EnviroStor database with other Liquid Gold Site documents.

Stege Property Pistol Range – CH2M Hill, Union Pacific Railroad Company's consultant conducted soil sampling in February 2008 in and adjacent to the Pistol Range backstop berm to further define the extent and volume of lead-impacted soil. CH2M Hill conducted soil sampling at three additional locations on May 12, 2008. The sampling was conducted following the same procedures as the February 2008 sampling that was outlined in the Pistol Range Backstop Berm Expanded Investigation Workplan approved by DTSC. Sampling results will be reported in the site cleanup plan discussed below.

Union Pacific was initially planning to proceed with cleanup of the lead-impacted soil in the area of the Pistol Range under a Removal Action Workplan (RAW), assuming the removal action was going to cost under \$1,000,000 to implement. However, the most recent sampling results indicate that the volume of the lead-

impacted soil is greater than previously calculated. Union Pacific proposes to excavate and dispose the lead-impacted soil at an off-site, permitted disposal facility and the projected cost is over \$1,000,000. Consequently, Union Pacific is preparing a Remedial Action Plan (RAP), instead of a RAW. DTSC has scheduled a meeting with Union Pacific to work out the schedule for submitting the RAP and implementing the subsequent site remediation activities.

Blair Landfill – Union Pacific Railroad submitted a response to DTSC’s comments on the soil gas investigation report. DTSC will be reviewing the response. Soil gas (or soil vapor) is air existing in void spaces in the soil between the groundwater and the ground surface. A soil-gas survey involves collecting and analyzing soil-gas samples to determine the presence of chemicals and to help map the spread of contaminants within soil. Previously, 31 soil samples at 11 different locations were collected and analyzed for 19 different metals, volatile organic compounds, semi-volatile organic compounds and pesticides.