

UNIVERSITY OF CALIFORNIA, BERKELEY
RICHMOND BAY CAMPUS
RICHMOND FIELD STATION SITE
MONTHLY SUMMARY REPORT
December 15, 2021

This monthly summary report (MSR) summarizes environmental site investigation and remediation activities conducted on behalf of The Regents of the University of California (UC) at the University of California, Berkeley's Richmond Field Station Site in accordance with Section 6.3 of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) Site Investigation and Remediation Order (Order), Docket No. I/SE-RAO 06/07-004, effective on September 20, 2006.

a. Specific actions taken by or on behalf of Respondents during the previous calendar month (November 2021).

- UC Berkeley received results from the biennial groundwater sampling event in June 2021 and submitted it to DTSC on November 10, 2021.

b. Actions expected to be undertaken during the current calendar month (December 2021).

- UC Berkeley submitted the signed TSCA application to DTSC and EPA for the proposed PCB cleanup action at the former PCB-containing transformer area associated with Building 112. The application incorporated DTSC and EPA comments provided on the draft application submitted previously. On May 12, 2021, EPA issued a letter to UC Berkeley approving the application. UC Berkeley has obtained soil profiling results, which indicate that soil to be removed is classified as California non-hazardous, and a quote to perform this removal action. UC Berkeley plans to begin this work, which is expected to take two days (one day for excavation, one day for backfilling), on December 16, 2021.
- In July 2021, UC Berkeley received results for soil sampling conducted under the concrete slab in Building 277 to prepare for demolition of the slab and installation of a "strong floor" (thicker slab) as part of a structural engineering research initiative. Soil samples were analyzed according to the SMP for SMP Area 4 for arsenic, lead, mercury, polychlorinated biphenyls (PCB), and polycyclic aromatic hydrocarbons (PAH). All PCB and PAH analyses were non-detect. All metals results are below the Category I criteria in the Soil Management Plan. These results were summarized and sent to DTSC on August 19, 2021. On December 1, 2021, DTSC issued UC Berkeley a letter approving the sample results summary,

c. All planned activities for the next month (January 2022)

- On October 14, 2021 UC Berkeley staff conducted its quarterly coordination meeting with DTSC. The purpose of these meetings is to provide DTSC, City of Richmond, Zeneca, and UC Richmond Field Station representatives the opportunity to coordinate on regional cleanup

activities at the southeast Richmond shoreline. The next quarterly meeting is scheduled for January 13, 2022.

- On December 31, 2019 a Five-Year Review report of the 2014 Final Removal Action Workplan, Richmond Bay Campus, Research, Education, and Support Area within the Former Richmond Field Station Site was submitted to DTSC on December 31, 2019. On March 30, 2020, EPA provided comments. DTSC provided comments on October 29, 2020. UC Berkeley provided a final redline version provided to DTSC and EPA on March 24, 2021. UC Berkeley received final comments from DTSC on December 1, 2021, and expects to publish the final version and submit it to DTSC in January 2022.
- Phase V Field Sampling Plan investigations for the Western Transition Area, and EPA South Meadow were completed November 6 - 13, 2019. Thirty-eight potholes were excavated, sampled, and backfilled throughout the areas, per the final sampling plan. PCB sampling results were received in January. A draft analysis of the results, and a proposal of archived samples to analyze was provided to EPA and DTSC via email on February 7, 2020. A meeting with EPA and DTSC to review proposed archived samples was held on April 14, 2020, and DTSC provided additional archive samples to be analyzed via email on April 15, 2020. Archived samples were sent to the lab to be analyzed in accordance with the field sampling plan and consistent with comments received from EPA and DTSC. Results were compiled into a summary letter, which also included a proposed scope for additional direct-push explorations to define the extent of an oily product layer identified in the November 2019 pothole investigation, as well as discrete soil samples to help delineate PCB contamination identified at the eastern edge of the project area. UC Berkeley provided DTSC and EPA the summary letter on October 16, 2020. Comments were received from DTSC on January 8, 2021. On February 4, 2021, UC Berkeley met with DTSC and EPA to discuss next steps with regard to WTA investigation, agreeing that a primary next step is to develop the site conceptual model, including ecological screening levels for PCBs in soils in this area. On May 24, 2021, UC Berkeley provided DTSC a letter providing a status update on Western Stege Marsh and the Western Transition Area. UC Berkeley conducted additional field sampling the week of November 1, 2021. This sampling included obtaining samples for PCB analysis and additional exploratory borings for a petroleum-based substance discovered during 2019 field activities. UC Berkeley expect to provide DTSC with a summary of this sampling activity, which will also include data from the 2020 sampling event, in January or February 2022.
- A TSCA PCB risk-based disposal approval for the EPA North Meadow soil pile excavation areas was submitted to EPA on August 15, 2018, with additional certification language submitted on August 29, 2018. EPA sent an approval letter on September 6, 2018. UC Berkeley collected the perimeter confirmation samples on May 15 and 16, 2019 to ensure the proper volumes are included in the draft plans and specifications. Lab results from the perimeter decision unit sampling, indicated step outs were necessary. New perimeter decision units were proposed to DTSC and EPA on June 3. Concurrence was received on June 4, and sampling was completed on June 12, 2019. Lab results from the step-out perimeter decision unit sampling indicated further step outs were necessary. Additional perimeter decision units were proposed to DTSC and EPA on July 8. Concurrence was received on July 9, and sampling was completed on July 19. Draft plans and sheets were submitted to DTSC and EPA for review and approval on June 9, 2020. Comments were received from EPA and DTSC on June 9 and June 17, 2020, respectively. On June 24, 2020 a meeting was held with

EPA and DTSC to discuss the confirmation sampling strategy for this removal action. A Notice to Proceed has been issued to the successful contractor (ACT Enviro). DTSC issued a Work Notice prior to the removal action, which commenced on November 9, 2020, with all soil removal completed on December 3, 2020. UC Berkeley provided DTSC and EPA project updates on a regular basis and posted air monitoring data to the RFS Environmental website. This removal action is now complete, with post-construction stormwater pollution control measures completed in early February 2021. UC Berkeley completed a virtual site walk with EPA and DTSC on February 26, 2021, and submitted a draft project completion report to DTSC on October 1, 2021 and is awaiting DTSC comments, at which point the report will be finalized and published.

- An application for a risk-based PCB cleanup for the Corporation Yard and B150 Transformer Area Removal Action Workplan excavation areas was submitted to EPA August 8, 2017. The application was approved by EPA on September 1, 2017. The Corporation Yard removal action was completed from October 10, 2017 to November 1, 2017 after which the excavation areas were lined with filter fabric and filled with clean soil. Step-out soil sampling in portions of the Corporation Yard was completed during the week of January 16, 2018. On September 11, 2018, B120 concrete floor was sampled in order to determine if it can be re-released for use by the RFS Facilities Management or whether remediation of the floor is needed. Additional data gap sampling for residual PCBs was completed September 25-30, 2019. The data gap sampling results letter was submitted to DTSC and EPA on November 22, 2019. Following meetings with DTSC and EPA to discuss the data gap sampling results on May 8 and 22, 2020, UC Berkeley submitted a Corporation Yard Triplicate Sampling Approach letter to both agencies on June 3, 2020. DTSC and HERO comments were provided on the sampling approach on June 18, 2020. A revised letter was submitted to DTSC on July 16, 2020. UC Berkeley received formal comments from DTSC and HERO on October 27, 2020, and provided a response, including updated comments on sampling approach, back to DTSC on November 6, 2020, and followed-up with a more detailed response on December 18, 2020. On January 19, 2021, DTSC issued a letter approving UC Berkeley's proposed sampling and analysis approach. UC Berkeley conducted sampling in the Corporation Yard on May 20, 2021 and concluded on May 21, 2021. UC Berkeley received sampling results in July 2021 and anticipates providing a data summary to DTSC in January 2022.

d. Any requirements under the Order that were not completed.

- None

e. Any problems or anticipated problems in complying with this Order.

- Completion of the RAW removal actions, continued efforts under the Field Sampling Workplan, and other tasks is dependent on the ability to meet with DTSC staff on a timely basis and may require adjusting schedules and extensions of deadlines.