UNIVERSITY OF CALIFORNIA, BERKELEY
RICHMOND BAY CAMPUS
RICHMOND FIELD STATION SITE
MONTHLY SUMMARY REPORT
August 17, 2020

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 (July 2020).

- On July 9, 2020 UC Berkeley staff conducted its monthly meeting with DTSC to provide project updates and to coordinate anticipated activities.

- 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.

- In June 2020, the RFS received a research project proposal to dig a trench along the north side of Lark Drive to lay optic fiber cables. On June 19, 2020 UC provided a notification to DTSC for the collection of worker protection sample in the proposed trenching area. On June 24, 2020, one incremental sample was collected; results were below all screening levels. A results letter was submitted to DTSC on July 31, 2020. Trenching, fiber optic cable placement, and backfilling was completed on July 16, 2020.

b. Actions expected to be undertaken during the current calendar month (August 2020).

- On August 13, 2020 UC Berkeley staff conducted its monthly meeting with DTSC to provide project updates and to coordinate anticipated activities.

- On August 6, 2020 UC Berkeley provided an updated three year schedule of activities for calendar years 2020-2022.

- On October 28, 2019 Soil Management Plan Form A was submitted to DTSC for the excavation of a bio-retention stormwater management area as part of the construction of the

fourth phase of the Northern Regional Library Complex. Form B and a sampling approach were submitted on November 21, 2019. DTSC provided comments on the sampling approach on November 25, 2019, and a revised approach was submitted December 3, 2019. The revised approach was approved March 13, 2020. The sampling was completed June 2, 2020. A results letter is expected to DTSC be submitted in August 2020.

- The Mercury Fulminate Area removal action described in the July 2014 RAW, and updated in the October 21, 2019 Excavation Update Summary, began on January 7, 2020 and was completed on January 28, 2020. Approximately 1,900 cubic yards of mercury contaminated soil and 4,125 gallons of waste water were disposed of offsite. Final site finishing activities, including placement of woodchips over disturbed areas and graveling of a dirt ramp, were completed in April 2020. A permanent fence replacing 100 ft of temporary fencing along the external boundary of the MFA was installed on May 8, 2020. UC Berkeley and DTSC conducted a virtual site walk of the MFA on August 6, 2020. During the site walk, DTSC concurred that the piezometer MFA removed during the removal action would be replaced within 10 feet of the original location. The draft removal action summary report will be completed in September 2020.

- Following recommendations from EPA and DTSC during the June 24, 2020 meeting regarding confirmation sampling strategy of the EPA North Meadow removal action, a new decision unit CS-16 was delineated as the area within the tree dripline discussed above. A triplicate incremental sample was collected from CS-16 on July 9, 2020. In August 2020, results from CS-16 will be provided to EPA and DTSC to determine the excavation strategy for that area. Waste profile samples from each pile and the TSCA bulk PCB area were also collected on July 9.

- Round 12 of RFS groundwater sampling began with groundwater elevation measurements in October 2019. The April groundwater elevations and sampling event was canceled due to the COVID-19 pandemic and Bay Area Shelter-In-Place orders. An abbreviated report presenting the October groundwater levels only will be submitted in August 2020.

- UC Berkeley issued the Final Phase V Sampling Results Technical Memorandum, Western Stege Marsh to DTSC on October 15, 2018 and held a multi-agency meeting on November 28, 2018 to review and discuss the report findings. In response to questions regarding the rail population in Western Stege Marsh, UC Berkeley completed three active rail surveys in winter and early spring 2020 to better understand the stability and viability of the rail population. Additional passive surveys were conducted April through July, 2020. A report summarizing these findings will be prepared in August 2020.

- Waste profile samples were collected on July 9 from five existing soil piles. Following receipt of waste profile results, UC Berkeley will provide DTSC a summary letter identifying the soil pile locations, and final waste disposal facilities.

c. All planned activities for the next month (September 2020)

- The next monthly meeting with DTSC to provide project updates and to coordinate anticipated activities will be held September 10, 2020.

- 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. Field activities are expected to begin in September 2020.

- Phase V Field Sampling Plan investigations for the Bulb, 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 will be compiled into a summary letter, which will also include a workplan for additional direct-push explorations to define the extent of an oily product layer identified in the November 2019 pothole investigation. The direct-push investigation is scheduled for November 2020 outside of the Ridgway's Rail breeding season.

- 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. It is anticipated all comments on the Five-Year Review will reviewed and addressed in September 2020 following receipt of DTSC comments.

- Piezometer MFA was deconstructed on December 24, 2019, in order to allow for the excavation of the mercury-impacted soils adjacent to the piezometer in January 2020. A letter describing the deconstruction was submitted to DTSC on November 26, 2019. The deconstruction activities consisted of drilling out the piezometer with a hollow-stem auger drill rig. The event was conducted under the oversight of the Contra Costa County Environmental Health Department. The replacement well is scheduled to be installed within 10 feet of the original piezometer MFA, pending driller availability.

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

- During the June 11, 2020 monthly meeting, the DTSC approved canceling the April groundwater monitoring event for the RFS due to the COVID-19 pandemic and Shelter-in-Place Order for the Bay Area.

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.