SMP FORM B: SAMPLING, DATA EVALUATION, SOIL MANAGEMENT ACTION	
Project Name: Tracking Number: <u>SMP Project 201910NRLFP4-</u> Retention Revision Number: <u>NA</u>	
SMP Form B Initiation Date: October 25, 2019	
EH&S Point of Contact: Alicia Bihler	
If this form ha	as not been approved or no activities have occurred for 1 year, the information contained
herein must be reviewed and updated as necessary prior to work occurring in the project area. 1. Sampling Design (attach Sampling Strategy Memorandum)	
a. SMP Areas Affected	
b. Sampling Density and Planned	SMP Areas 13 and 17 Consult SMP Figure 6 Low (1 sample per 15,625 feet or 125 foot grid spacing)
Number of Sample Locations	Area of retention basin = 6,220 sq ft, 1 Sample Location
c. Chemicals of Concern and	As, Hg, Pb, PCBs, PAHs
Summary of Existing Data	Consult SMP Tables 1 and 2, and the most current groundwater report Include data summary in sampling strategy memorandum
d. Sampling Depths and Intervals	0-0.5 ft, and 2-2.5 ft bgs Consult SMP Section 4.1
 e. Project is within area of GW above screening criteria 	Yes ☐ No ☑ If Yes, consult BAW, patify DTSC Consult SMP Table C-2
	il Tes, consult RAVV, Houly DTSC
 f. Sampling design meets all SMP prescriptive requirements 	Yes ⊠ No □
prescriptive requirements	If No, DTSC concurrence received?
	Yes \(\sigma \) No \(\sigma \)
2. Data Evaluation (Post-Sampling) (a	
a. Sampling Design Implemented	Yes No No
γ	
b. Sample Results Meet Category	Yes ☐ No ☐ Consult SMP Table 3
1	If Yes, submit summary report with SMP Form B
	If sample results indicate unanticipated contamination or discovery, notify
- 0-115	DTSC
 c. Soil Exceeding Category I is Defined Vertically and Laterally 	Yes No NA NA
3. THE PROPERTY OF THE PROPERT	If No, consult sampling requirements or defer to excavation confirmation sampling
d. Soil Meets Category II Criteria	Yes \(\) No \(\) NA \(\)
	Soil proposed for on-site management requires plan
3 Soil Management Action (attach Or	Soil above Category II criteria requires excavation plan n-Site Management or Soil Excavation Plan)
a. On-Site Management Plan	Yes No Consult SMP Section 4.3
Meets SMP Requirements	If No, provide explanation or contact DTSC:
b. Excavation Plan Meets SMP	Yes ☐ No ☐ Consult SMP Section 4.3
Requirements	
	If No, provide explanation or contact DTSC:
4. SMP Form B Approval	11/20/2019
a. Greg Haet, Project Coordinator,	(Cinnellas Data)
EH&S	(Signature, Date)
b. Scott Shackleton, Facilities	ALONE SIZULLE DEDIGERO SZO19
Management, UCB, College of Engineering	(Signature, Date)
c. Professional Civil Engineer or	Jason Brodersen, CA PG No.6262
Geologist Civil Engineer of	Sason Education, GAT & No. 10202
	(Name, Signature, Date, Stamp) JASON D. BRODERSEN
5. References Used to Complete	A
Form	*\ No. 6262
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OFFICE OF ENVIRONMENT, HEALTH AND SAFETY UNIVERSITY HALL, 3rd FLOOR

BERKELEY, CALIFORNIA 94720-1150

November 21, 2019

Lynn Nakashima Project Manager Department of Toxic Substances Control 700 Heinz Avenue Berkeley, CA 94710

Subject:

Northern Regional Library Facility (NRLF) Phase 4 - Bio Retention Pond

Soil Management Plan, Sampling Approach

Richmond Field Station, University of California, Berkeley

Dear Ms. Nakashima:

The University of California (UC) Berkeley proposes to collect soil samples at the Richmond Field Station associated with the construction of the NRLF Phase 4 bio-retention pond. The objective of the sampling effort is to characterize soil remaining in place under the retention pond stormwater mitigation feature per the Soil Management Plan, Revision 1, dated April 12, 2017. The project footprint is approximately 6,220 square feet; and will be approximately 2 feet below the existing grade. The surface area of soil is greater than 500 square feet and therefore sampling is required according to the Soil Management Plan.

This letter provides the proposed sampling location and a summary of field sampling protocols. The attached figure presents the project features and proposed sampling locations.

Sample Locations and Depths

The project is located within SMP Areas 13, and 17, which are defined as low sampling density with arsenic, lead, mercury, polycyclic aromatic hydrocarbons (PAH), and polychlorinated biphenyls (PCB) as chemicals of concern. SMP areas, chemicals of concern, and sample frequency are presented in Section 4.1 and Table C-3 of the Soil Management Plan. Low sampling density areas dictate a minimum of one sample location per 15,625 square feet, mandating a minimum of one location for this project. UC Berkeley proposes to collect samples from one location within the excavation footprint; the location is presented on the figure following this letter.

Soil samples will be collected from depths of 0-0.5 and 2-2.5 feet below the depth of planned soil disturbance, for a total of two samples. This will allow documentation of potential residual soil contamination beneath the excavation.

Field Sampling Protocols

Soils will be collected using a hand auger to help ensure sample mass recovery. Once the sample depth interval is reached, either a disposable plastic scoop, a stainless steel metal scoop, or a hand auger will be used to collect the soil sample. The sampling protocol will follow these steps:

- 1. The field sampler will use a disposable scoop, stainless steel metal scoop, or hand auger to collect the soil sample.
- 2. One 16-ounce jar of soil will be collected for each sample.
- 3. Any sampling equipment used will either be disposable or decontaminated between samples using Alconox and de-ionized water.
- 4. The sample jars will be labeled and packed into an insulated cooler. The sample will be transported under chain-of custody procedures directly to Enthalpy Laboratory in Berkeley, California.

All sample collection protocols will be consistent with the Final Sampling and Analysis Plan included as Exhibit C2 to the Soil Management Plan. Any deviations from Exhibit C2 will be identified in the summary report.

Analyses Summary and Screening Criteria

Soil samples will be analyzed for arsenic, lead, mercury, PAH, and PCB using the methods listed below.

- Arsenic, lead, and mercury analysis by EPA 6020A/7471A
- PCB analysis by EPA 8082A
- PAH analysis by EPA 8270 SIM

The laboratory will be instructed to homogenize the soil mass provided before analyses.

Following the receipt of analytical results, sample results will be presented in a sampling letter report along with screening levels identified in the Soil Management Plan.

If you have any questions or comments regarding this submittal, please call me at (510) 642-4848.

Sincerely,

Greg Haet

EH&S Associate Director Environmental Protection

Enclosure: Figure

