



TETRA TECH INC.

November 26, 2019

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

**Subject: Notification of Piezometer MFA Abandonment and Installation  
Mercury Fulminate Area Removal Action  
University of California, Berkeley, Richmond Field Station**

Dear Ms. Nakashima:

The University of California, Berkeley plans to abandon and replace piezometer MFA at the Richmond Field Station as a requirement of the upcoming Mercury Fulminate Area soil removal action. The requirement is presented in the Final Removal Action Workplan, dated July 18, 2014. The piezometer must be abandoned as it is within the current proposed excavation boundary of the removal action. The excavation boundaries and MFA are shown on Figure 1. The abandonment is scheduled during the week of December 16, 2019, following selection of a drilling subcontractor. Installation of the replacement well will be conducted in February 2020, following completion of the removal action. All activities will be conducted in accordance with the Field Sampling Workplan, Phase I Groundwater Sampling Plan, dated June 2, 2010.

Piezometer MFA was installed by UC Berkeley on July 28, 2010. MFA consists of a 2-inch PVC piezometer with a depth of 13.5 feet below ground surface (bgs), screened from 3.5 to 13.5 feet bgs. MFA will be abandoned and decommissioned according to Contra Costa County Health and Safety Division "Annular Seal and Well Destruction Materials" specification. The piezometer will be over-drilled, removed, and the entire borehole will be grouted. The piezometer materials removed will be drummed as investigation-derived waste (IDW).

The replacement piezometer will be installed approximately 10 feet north of the abandoned MFA and named MFA-R. The borehole will be drilled with a hollow-stem auger drill rig. The cuttings and piezometer placement will be logged by a geologist. MFA-R will be constructed from 2-inch diameter schedule 40 polyvinyl chloride (PVC) blank casing with 2-inch diameter schedule 40 PVC screen with 0.01-inch slot size. The screened interval of the piezometer will be 3.5 to 13.5 feet bgs, consistent with the original MFA.

No soil samples will be collected for analysis during the well installation. MFA-R will be developed according to the protocols of the installation of the previous piezometers. The exact location will be marked in the field by Tetra Tech and will be surveyed following installation.



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The appropriate permits will be obtained prior to abandonment and piezometer installation, and a copy of the Well Driller's Report will be submitted to Contra Costa Environmental Health, UC Berkeley, and the State Department of Water Resources so that UC Berkeley can receive final destruction approval.

If you have any questions or comments regarding this submittal, please call me at (415) 497-9060.

Sincerely,

Jason Brodersen, P.G.  
Project Manager

Enclosure: Figure 1

cc: Alicia Bihler, Office of EH&S, University of California, Berkeley

