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March 15, 2006

Norman Shopay
Project Manager
California Department of Toxic Substances Control
Geology and Corrective Action Branch
700 Heinz Avenue, Suite 200
Berkeley, California 94710

Subject: Supplement to Technical Addendum No. 1: Well Installation Work Plan for
Interim Measures Performance Monitoring
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

This letter transmits the *Supplement to Technical Addendum No. 1: Well Installation Work Plan for Interim Measures Performance Monitoring*. This supplement presents the proposed plan for initial water quality characterization for new wells at Locations 1 – 5 at the Topock site. This supplement is submitted in accordance with Condition No. 7 in DTSC's February 8, 2006, letter.

Please contact me at (805) 546-5243 if you have any questions on this supplement.

Sincerely,

cc: Kate Burger/DTSC

Enclosure

Supplement to Technical Addendum No. 1: Well Installation Work Plan for Interim Measures Performance Monitoring, PG&E Topock Compressor Station, Needles, California

Date: March 15, 2006

Introduction

This Supplement to Technical Addendum No. 1 (Supplement) describes the proposed initial characterization sampling and laboratory analysis for new monitoring wells installed at Locations 1 through 5 as part of the Interim Measures (IM) field investigations at the Pacific Gas and Electric Company (PG&E) Topock Compressor Station near Needles, California. On January 27, 2006, PG&E submitted to the California Department of Toxic Substances Control (DTSC) *Technical Addendum No. 1: Well Installation Work Plan for Interim Measures Performance Monitoring* (IMPMP; CH2M HILL 2006), which incorporated DTSC's conditions for implementing the IMPMP Work Plan (CH2M HILL 2005a), including well completion details for additional wells at Locations 1 through 5. The scope of work presented in Technical Addendum No. 1 was conditionally approved by DTSC in a letter dated February 8, 2006.

This Supplement is intended to address Condition No. 7 of the DTSC February 8, 2006 letter to provide the proposed sampling and laboratory analysis plan for initial groundwater characterization of the new IMPMP wells at Locations 1 through 5.

Initial Groundwater Sampling at Locations 1 - 5

Monitoring Frequency and Parameters

Initial groundwater characterization of wells constructed at Locations 1 through 5 will be conducted in a single sampling event at each well, to occur within 30 days of well installation.

Initial water quality characterization parameters for this event are as follows:

- Hexavalent chromium
- Dissolved chromium
- Total dissolved solids
- Specific conductance
- Chloride, sulfate, and nitrate
- Alkalinity (carbonate/bicarbonate)
- Calcium, magnesium, potassium, sodium, boron, manganese, and iron
- Stable isotopes (oxygen 18 and deuterium)

- Title 22 metals, full list – *Location 5 monitoring well only*
- Ammonia
- Total organic carbon

The field water quality parameters of temperature, pH, specific conductance, oxidation-reduction potential, dissolved oxygen, and turbidity will also be measured and recorded at the time of sample collection.

Following initial sampling, the new wells will be incorporated in the Topock groundwater monitoring program and hydraulic monitoring (pressure transducer) network used for the IM performance monitoring.

Sampling, Analysis, and Field Procedures

Initial groundwater sampling activities will follow the procedures, analytical methods, reporting limits, and quality control plan described in the *Topock Program Sampling, Analysis, and Field Procedures Manual* (CH2M HILL, 2005b). The Cr(VI) and Cr(T) samples will be filtered in the laboratory before analysis, consistent with prior IM field investigations and the groundwater monitoring program.

Certification

This work plan was prepared by CH2M HILL under the supervision of the professional whose seal and signature appears hereon, in accordance with currently accepted professional practices; no warranty, expressed or implied, is made.



Paul Bertucci, Certified Engineering Geologist #1977



References

CH2M HILL. 2006. Technical Memorandum, *Technical Addendum No. 1: Well Installation Work Plan for Interim Measures Performance Monitoring*. January 27.

CH2M HILL. 2005a. *Well Installation Work Plan for Interim Measures Performance Monitoring Program, PG&E Topock Compressor Station, Needles, California*. Draft. November 30.

CH2M HILL. 2005b. *Sampling, Analysis, and Field Procedures Manual, PG&E Topock Program. PG&E Topock Compressor Station, Needles, California*. Revision 1. March 31.