

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Monday, April 27, 2015 2:44 PM
To: 'Hey, Eva'; 'robert.webster@ddbo.com'
Cc: Maxwell, Chris; Roe, Dilan, Env. Health
Subject: RO 167 - 575 Paseo Grande, San Lorenzo - Bohannon
Attachments: 20150424_Ltr_to_MDetterman_ACEH.pdf

Eva,

Thanks for the phone call and the letter summarizing the meeting action items. As we just discussed, ACEH requests relatively minor modifications to the scope of work as it appears to be reasonable and is as we discussed in the conference call on March 25th. As we just discussed ACEH requests the following changes:

TECHNICAL COMMENTS

- 1. Groundwater Sampling of Well NIW-A1:** It appears reasonable to include the sampling of groundwater from well NIW-A1 in to the scope of work. The well has not been resampled since May 2005, monitors an area between wells MW-2 and MW-3, contained substantial hydrocarbon concentrations at that time, and is located on the downgradient property line of the site. Sampling the well will help determine the extent of contaminant rebound and load in this general vicinity of the site. Please analyze groundwater from this well as described in the attached letter work plan.
- 2. Neighborhood Basement / Foundation Survey** – ACEH understands that local land use information will be evaluated; however, to prevent miscommunication and clarify, ACEH requests a neighborhood survey (Google Earth, neighborhood canvas, questionnaires, as or when appropriate) to determine the number and location (if any) of existing basements downgradient of the subject site. In general, basements eliminate the separation distance between a potential receptor and residual contamination and can lead to unintended contaminant exposures. As discussed in the meeting, the evaluation is also intended to evaluate the practicality of installing a basement in the area should changes be considered by offsite property owners in the future in the residential neighborhood.

TECHNICAL REPORT REQUEST

As discussed in the attached document, draft figures, tables, and etc. will be submitted to ACEH prior to finalization of a report. Please email these data to me, according to the following schedule:

- **May 8, 2015** – Submittal to FTP site of Attached Meeting Summary and Scope of Work with Perjury Statement (as WP_R_YYYY-mm-dd)
- **June 29, 2015** – Draft Data Submittal (Emailed to the undersigned)

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>



Stantec Consulting Services Inc.

1340 Treat Boulevard, Suite 300, Walnut Creek CA 94597-7966

April 24, 2015
File: 185702848

Mr. Mark E. Detterman, P.G., CEG
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Reference: March 25, 2015 Meeting Summary and Work Scope for Soil Vapor and Groundwater Sampling Activities, RO#167, 575 Paseo Grande, San Lorenzo, California

Dear Mr. Detterman,

Stantec Consulting Services Inc. (Stantec), on behalf of the David D. Bohannon Organization (Bohannon), is submitting this letter to summarize the teleconference held with the you and Dilan Roe of the Alameda County Health Care Service Agency (ACHCSA) on March 25, 2015 regarding on-going investigation activities at the above-referenced Site. During the meeting the results of recent field work was presented and an approach for supplemental investigation activities was discussed. The objective of the supplemental investigation is to address a few remaining data gaps as part of the overall Site closure process. A Work Scope for the supplemental investigations is included as part of this letter.

Meeting Summary

On January 30, 2015 Stantec on behalf of Bohannon submitted to the ACHCSA draft tables and figures presenting the results of groundwater sampling conducted in October 2014 and soil vapor sampling conducted in January 2015. The January 30th submittal included a brief text summary of the data and results. The purpose of the March 25th meeting was to discuss the draft results and the appropriate path forward. The meeting was attended by Mr. Mark Detterman and Ms. Dilan Roe representing ACHSA, Eva Hey and Chris Maxwell representing Stantec, and Robert Webster and Andrew Bassak representing Bohannon.

Based upon review of the draft information and discussions during the meeting, the ACHCSA requested that Bohannon perform another round of groundwater sampling for select wells and collect an additional set of soil vapor samples. The ACHCSA also requested that the groundwater samples include analysis of chlorinated hydrocarbons in addition to the previously analyzed gasoline range organics, BTEX and naphthalene. In addition, the ACHCSA requested additional information regarding local land use in the vicinity of the Site.

Work Scope

Groundwater sample collection is proposed at eight locations: seven (7) wells on Site and one well off-Site. Soil vapor sample collection is proposed at eleven (11) locations on Site and along Paseo Largo Vista. The procedures for groundwater, and soil vapor sampling as presented below are



Reference: March 25, 2015 Meeting Summary and Work Scope for Soil Vapor and Groundwater Sampling Activities, RO#167, 575 Paseo Grande, San Lorenzo, California

similar to the December 21, 2012 *Site Conceptual Model and Work Plan to Evaluate Post-Remediation Site Conditions* and the January 17, 2013 *Updated Work Plan to Evaluate Site Conditions*. The detailed scope is presented below.

Groundwater and Soil Vapor Sample Collection

Groundwater samples will be collected from select Site monitoring and observation wells in the 2nd Quarter 2015. The 8 (eight) wells proposed for sampling and analysis in the 2nd Quarter 2015 are MW-1 to MW-4, POBS-A1, POBS-B1, POBS-B2, and NOBS-B1. Groundwater samples will be analyzed for gasoline range organics by EPA Method 8260B/CA LUFT MS and volatile organic compounds (VOCs) and naphthalene by EPA Method 8260B. The VOCs will include chlorinated hydrocarbons and their degradation byproducts. The groundwater samples will be transported under chain-of-custody procedures to Test America Laboratories in Pleasanton, California, a California-certified analytical laboratory.

Soil vapor samples will be collected from select vapor wells in accordance with the October 2011 California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC) Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (DTSC VI Guidance). The eleven (11) wells proposed to be sampled are: SV-2, SV-4, SV-7, SV-10, SV-13, SV-14, SV-15, SV-16, SV-18S, SV-18D, and SV-19. The wells selected for sampling are those which elevated results or elevated detection limits in previous sampling events.

Soil vapor samples will be collected in laboratory-supplied and batch-certified 1.4-liter Summa canisters equipped with flow regulators. Sample flow rates will be set at approximately 200 milliliters per minute (mL/min) using a regulator that is pre-calibrated in the laboratory. Start and stop times and initial and final vacuum pressures will be recorded on field sheets and the chain-of-custody. The Summa canisters will be transported under chain-of-custody procedures to Curtis and Tompkins Laboratories in Berkeley, California, a California-certified analytical laboratory.

Samples will be submitted for analysis of VOCs and naphthalene using modified Method TO-15 (a gas chromatograph/mass spectrometer [GC/MS] analytical method), and for the leak check compound, helium, using modified American Society for Testing and Materials (ASTM) D-1946. Analysis of soil vapor samples will also include oxygen, nitrogen, methane, and carbon dioxide by ASTM D-1946. Samples from SV-4, SV-7, and SV-10, and SV-14 will also be collected for naphthalene by Method TO-17.

Waste generated during this investigation will be stored on-site in sealed 55-gallon drums and labeled with the generation date and nature of contents. Waste will be disposed of appropriately, based on analytical results. Disposal of all wastes will be conducted in accordance with federal, state and local regulations. Following receipt of the laboratory results, Stantec will contract an approved waste vendor for appropriate characterization and disposal.

Following receipt of the analytical results, Stantec will prepare draft tables and figures summarizing the analytical results and local land use conditions. The data will include tabulated laboratory sample analytical results, and scaled site plans showing sampling locations and analytical results. In addition, as request by the ACHCSA, Stantec will prepare hydrographs



April 24, 2015
Page 3 of 3

Reference: March 25, 2015 Meeting Summary and Work Scope for Soil Vapor and Groundwater Sampling Activities, RO#167, 575 Paseo Grande, San Lorenzo, California

comparing groundwater analytical results with groundwater depths for wells MW-2, MW-3, MW-4, POBS-A1, POBS-B1 and POBS-B2.

As requested by the ACHCSA, these draft data tables and figures will be presented to and discussed with the ACHCSA, along with local land use information, at a meeting in their offices or a teleconference prior to development and submittal of a final technical report. The scope and nature of a final report will be determined based on discussions during that meeting.

If you have any questions, please contact the undersigned.

Regards,

STANTEC CONSULTING SERVICES INC.



Chris Maxwell
Principal Geologist
Phone: (925) 296-2132
Chris.Maxwell@stantec.com

Eva Hey
Geologic Consultant
Phone: (925) 296-2132
Eva.Hey@stantec.com

c. Mr. Andrew A. Bassak, Manatt, Phelps, and Phillips LLP
Mr. Robert L. Webster, David D. Bohannon Organization

he document2