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May 4, 2012

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

4:47 pm, May 07, 2012

Alameda County
Environmental Health

Dear Mr. Detterman:

Attached for your review is the Addendum to *Work Plan for Site Assessment and Preferential Pathway Survey* former Chevron Service Station No. 9-9708, located at 5910 MacArthur Boulevard, in Oakland, California. This report was prepared by ARCADIS, upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Liv Skance", with a long horizontal line extending to the right.

Olivia Skance
Chevron Environmental Management Company

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:

Addendum to Work Plan for Site Assessment and Preferential Pathway Survey
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California
Fuel Leak Case No. RO0000124

Dear Mr. Detterman:

ARCADIS has prepared this addendum to the December 6, 2011 *Workplan for Site Assessment and Preferential Pathway Study*, at the former Chevron Environmental Management Company (CEMC) station No. 9-9708, located at 5910 MacArthur Boulevard in Oakland, California. This addendum was prepared in response to the April 5, 2012, Alameda County Environmental Health (ACEH) letter requesting modifications to the work plan (Attachment A). The ACEH requested that ARCADIS modify the work plan as follows:

- Include two additional soil borings upgradient of the former waste oil underground storage tank (UST);
- Collect and analyze additional soil samples at signs of contamination (odor, discoloration, Photoionization Detector (PID) readings, etc.); and
- Clear each soil boring with a hand auger in order to collect shallow soil samples.

ARCADIS concurs with the ACEH's modifications to the work plan and has included a revised Figure 2 which illustrates the additional soil boring locations. A hand auger

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950 Glenn Drive
Suite 125
Folsom
California 95630
Tel 916-985-2079
Fax 916-985-2093
www.arcadis-us.com

ENVIRONMENT

Date:
May 4, 2012

Contact:
Thomas Potter

Phone:
916.985.2079 ext. 31

Email:
Thomas.Potter@
arcadis-us.com

Our ref:
B0060901.9708.00002

Imagine the result

will be used to collect shallow soil samples; however, an air knife will also be used, in order to clear an area slightly larger than the direct push drilling head.

The revised Figure 2 also illustrates the utilities found during the onsite preferential pathway survey. ARCADIS will include the results of the well survey and utility survey in the soil and groundwater investigation report.

The locations of the additional soil borings are in close proximity to the property line, and therefore, it may be necessary to install the soil borings on the neighboring, off-site, property (Figure 2). Prior to the advancement of the soil borings, ARCADIS proposes to conduct a site survey to establish property line boundaries. Once the property boundaries have been marked, ARCADIS will be able to evaluate if the additional boring locations are within on-site property boundaries. If they are located off-site, it will be necessary to obtain appropriate access with the adjacent property owner(s). Every effort will be made to install the borings on-site, without compromising their locations relative to the former waste oil tank.

Schedule

ARCADIS requests an extended due date for the submission of the soil and groundwater investigation report associated with the work plan mentioned above. If the additional soil borings can be installed on-site, ARCADIS requests that the soil and groundwater investigation report be due by July 27, 2012. If the additional soil borings cannot be installed on-site, ARCADIS requests that the soil and groundwater investigation report be due 120 days after securing the off-site access agreement(s). ARCADIS is prepared to initiate delineation activities upon execution of an off-site access license between CEMC and the off-site property owner(s).

If you have any questions or comments regarding the contents of this work plan, please contact either Thomas Potter at 916.985.2079 ext. 31 or by e-mail at Thomas.Potter@arcadis-us.com or Melissa Blanchette at 503.220.8201 ext. 1113 or by e-mail at Melissa.Blanchette@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.

Thomas Potter
Associate Project Manager

Melissa Blanchette, PG (CA 8531)
Senior Geologist



Enclosure:

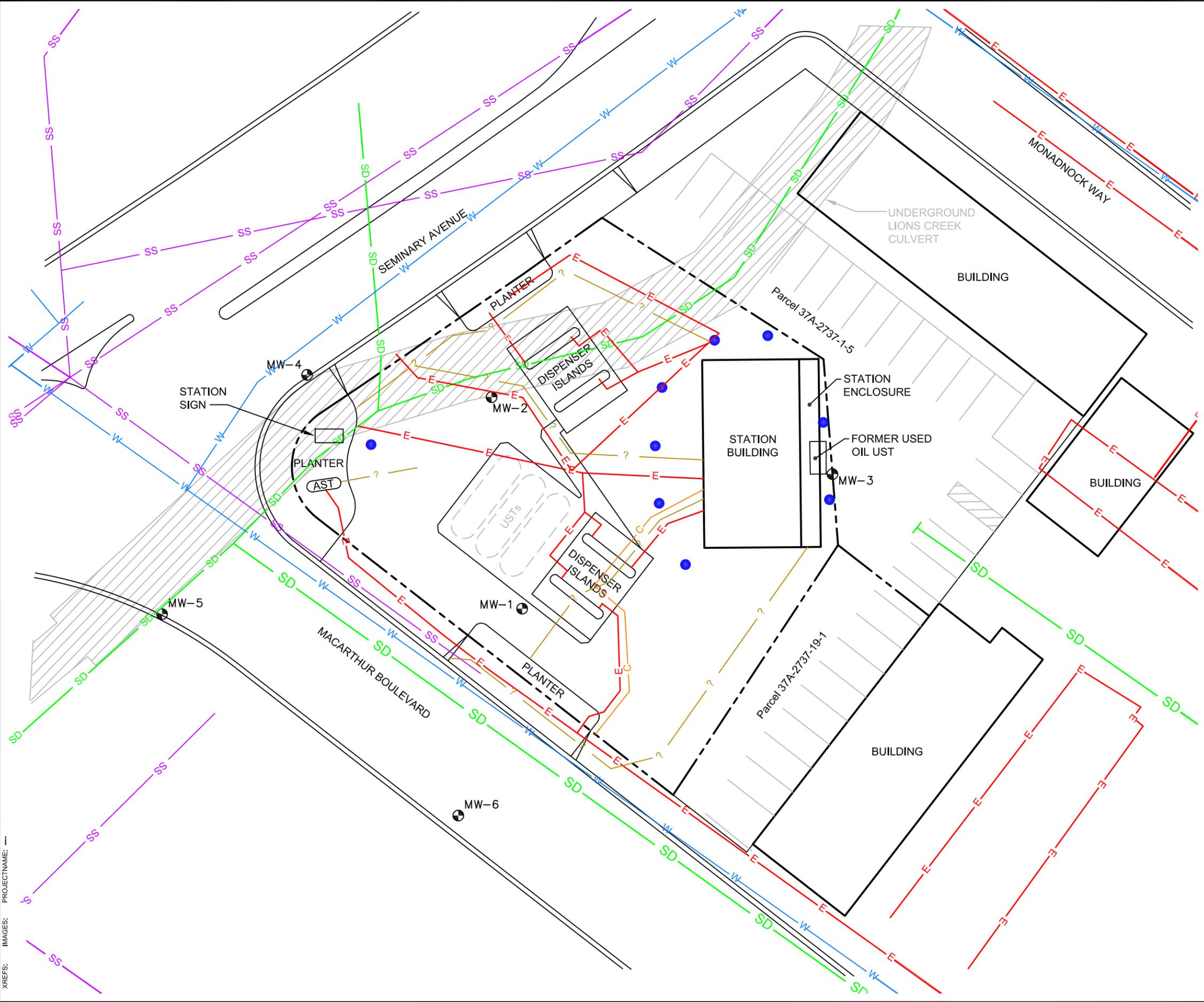
Revised Figure 2 Site Plan with Boring Locations

Attachment A April 5, 2012 ACEH Letter: Conditional Approval of Work Plan

Copies:

Mr. Robert Speer, Chevron (electronic only)
Mr. Nisson Saidon, Property Owner

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM/TM: R. ANDRESEN TR: BL WALL LVR: ON=OFF-REF
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 PLOT: PLT\FULLCTB PLOTTED: 4/20/2012 8:58 AM BY: LISTER, PAUL
 XREFS: IMAGES: PROJECTNAME: --

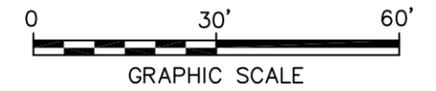


LEGEND:

- PROPERTY LINE
- ⊙ MONITORING WELL
- PROPOSED BORING
- (UST) UNDERGROUND STORAGE TANK
- (AST) ABOVEGROUND STORAGE TANK
- W — WATER LINE
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- E — ELECTRICAL LINE
- C — COMMUNICATIONS LINE
- ? — UNIDENTIFIED LINE

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, @ A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.



FORMER CHEVRON SERVICE STATION 9-9708
 5910 MACARTHUR BOULEVARD, OAKLAND, CA
**WORK PLAN FOR SITE ASSESSMENT AND
 PREFERENTIAL PATHWAY SURVEY**

SITE MAP

FIGURE
2

ARCADIS

Attachment A

April 5, 2012 ACEH Letter:
Conditional Approval of
Work Plan



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 5, 2012

Mr. Eric Frohnapple
Chevron Environmental Management
6111 Bollinger Canyon Rd.
San Ramon, CA 94583
(sent via electronic mail to ericf@chevron.com)

Mr. Nisson Saidian
5733 Medallion Ct.
P.O. Box 6104
Castro Valley, CA 94552

Subject: Conditional Approval of Work Plan, Fuel Leak Case No. RO0000124 (Global ID # T0600102093), Chevron #9-9708, 5910 MacArthur Boulevard, Oakland, 94605

Dear Messrs. Frohnapple and Saidian:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Work Plan for Site Assessment and Preferential Pathway Survey*, dated December 16, 2011, and the *Semiannual 2011 Groundwater Monitoring Report*, dated January 23, 2012. The reports were prepared and submitted on your behalf by Arcadis, U.S, Inc. (Arcadis). Thank you for submitting the reports.

Based on ACEH staff review of the work plan, the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed work. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you address the following technical comments, perform the proposed work, and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Work Plan Modifications** – The referenced work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests several modifications to the approach. Please submit a work plan addendum (Figure 2 only) and a soil and groundwater investigation report by the date identified below:
 - a. **Request for Two Additional Soil Bores** – ACEH is in general agreement with the location of the proposed soil bores at the subject site; however, requests the addition of two soil bores slightly upgradient of the former waste oil UST location. This will address data gaps associated with this presumed source location (lateral and vertical delineation in soil) and can provide data on the potential for offsite upgradient sources. The collection of soil and grab groundwater at both locations can use protocols proposed in the work plan, as modified below. ACEH requests the submittal of a work plan addendum (Figure 2 only) with the locations of the additional soil bores noted, by the date identified below.
 - b. **Soil Selection Protocols** – The work plan addendum proposes to collect two soil samples in each soil bore. To preclude miscommunication ACEH additionally requests that soil samples be collected, and submitted for analysis, at signs of contamination (odor, discoloration, PID responses, etc.) and at significant changes in lithology.
 - c. **Representative Shallow Soil Samples** – The work plan proposes hand clearing or use of an air knife to a depth of eight feet below grade surface (bgs). ACEH agrees that hand clearing

soil bores is an important step, and recognizes that Chevron corporate preferences exist; however, ACEH is concerned that use of an air knife to the proposed total depth may preclude collection of important shallow soil data including analytical sample collection. As a consequence, ACEH requests use of a hand auger to clear the soil bores.

TECHNICAL REPORT REQUEST

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **April 27, 2012** – Work Plan Addendum (Revised Figure 2 only)
- **June 22, 2012** - Soil and Groundwater Investigation Report
- **October 1, 2012** – Third Quarter 2012 Groundwater Monitoring Report
- **January 18, 2013** – Fourth Quarter 2012 Groundwater Monitoring Report

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.

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

Sincerely,



Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email, c=US
Date: 2012.04.05 14:50:43 -07'00'

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Thomas Potter, Arcadis US, Inc, 950 Glenn Drive, Suite 125, Folsom, CA 95630
(sent via electronic mail to Thomas.Potter@arcadis-us.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Electronic File