



Roya C. Kambin
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November 4, 2011

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED

9:30 am, Nov 18, 2011

Alameda County
Environmental Health

RE: Site Assessment Work Plan Addendum

800, 726, and 706 Harrison Street, Oakland, California
Fuel Leak Case No.: RO0000231, RO0000321, RO0000484

Dear Mr. Wickham,

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (925) 790-6270.

Sincerely,

A handwritten signature in black ink, appearing to read "Roya Kambin".

Roya Kambin
Union Oil of California – Project Manager

Attachment
Site Assessment Work Plan Addendum



Mr. Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Local Oversight Program (LOP)
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject:

Site Assessment Work Plan Addendum
800, 726, and 706 Harrison Street
Oakland, California 94607
Fuel Leak Case No. RO0000231, RO0000321, and RO0000484

Dear Mr. Wickham:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), ARCADIS is pleased to submit this *Comingled Plume Assessment Work Plan Addendum (Addendum)* to the *Comingled Plume Assessment Work Plan (Work Plan)* submitted by Stantec Consulting Corporation (Stantec) dated March 31, 2011. This Addendum is in response to the Alameda County Environmental Health (ACEH) regulatory letter dated October 20, 2011, and the telephone conference held between EMC, ARCADIS and ACEH on October 27, 2011.

ARCADIS and Aqua Science Engineers, Inc. (ASE) completed a portion of the soil boring installations, as outlined in the Work Plan, on June 20 and 24, 2011. ARCADIS completed three soil borings (GP-5 through GP-7) associated with 706 Harrison Street and one soil boring (GP-2) associated with 800 Harrison Street. ASE completed one soil boring and one monitoring well installation (GP-3 and MW-6) associated with 726 Harrison Street. Completion of the remaining soil borings (GP-1, GP-4 and GP-8 through GP-10) is on hold pending proposed modifications to boring locations described herein and discussed with ACEH on October 27, 2011 (Figure 1).

The following provides the rationale for either advancing or not advancing the proposed soil borings described in the Work Plan based on observed site conditions. In general, proposed changes are a result of observed underground or overhead utilities identified by either Underground Service Alert (USA) or third party underground utility surveyors (Cruz Brothers, Inc.). In addition unknown utilities or

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ENVIRONMENT

Date:
November 4, 2011

Contact:
Leah Ackerman

Phone:
925.296.7828

Email:
Leah.Ackerman@arcadis-us.com

Our ref:
B0047339.0001

Imagine the result

obstructions were also identified in the upper 8 feet, 1-inch below ground surface (bgs) at one location by hand clearing techniques (hand augering).

GP-1, GP-9 and GP-10

The proposed location of GP-1 is within the service station's garage located at 800 Harrison Street (Figure 1). The underground and overhead utilities at this location pose a significant risk to the use of a direct push rig, as proposed in the Work Plan. As discussed on October 27, 2011, ARCADIS will attempt to advance GP-1 using a concrete corer followed by a hand auger through the subsurface to the target depth. GP-1 soil samples will be analyzed per the proposed sampling matrix within the Work Plan. ARCADIS will acquire a soil boring permit for this location prior to the start of field activities.

Due to the presence of numerous underground utilities located within the street and the sidewalk in the vicinity of GP-9 and GP-10 (Figure 1), ARCADIS, EMC, and ACEH agreed to move these two boring locations south to the vegetated right of way at the Senior Center located at 275 7th Street, in Oakland, California. ARCADIS will advance these locations using a hand auger to clear for underground utilities to 8 feet 1-inch bgs followed by use of a direct push-rig to the target depth. These locations will be sampled per the proposed sampling matrix within the Work Plan. ARCADIS will acquire an encroachment permit and soil boring permits for these locations.

GP-4 and GP-8

As discussed on October 27, 2011, locations GP-4 and GP-8 will not be advanced due to the presence of numerous underground utilities. The rationale for collecting samples at these locations was reviewed during the meeting and it was agreed that there is sufficient data coverage associated with these areas.

In addition, ARCADIS will review historical soil data from monitoring wells MW-6 and MW-7 associated with the 706 Harrison Street property. If available, this data will be presented in the Site Assessment Report associated with the above scope of work.

Completion of the remaining soil borings as discussed above is currently scheduled for the week of November 23, 2011 (pending procurement of required permits). If you have any questions or comments regarding the contents of this document, please

contact Leah Ackerman of ARCADIS at 925.296.7828 or by e-mail at Leah.Ackerman@arcadis-us.com.

Sincerely,

ARCADIS



Leah Ackerman, P.E.
Senior Project Engineer



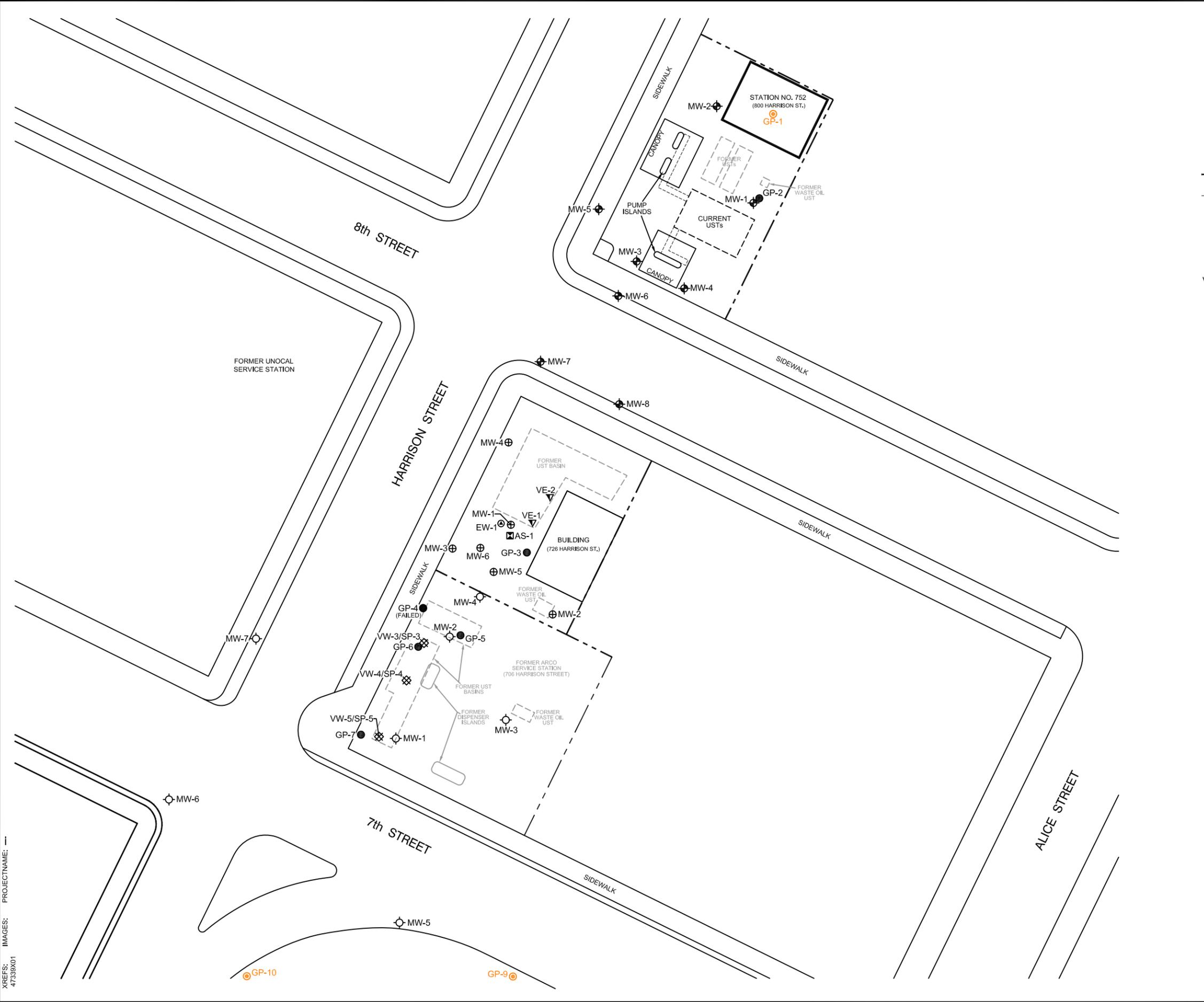
Figures:

Figure 1 Proposed Locations

Copies

Ms. Roya Kambin, Chevron Environmental Management Company
Mr. Eric Hetrick, ConocoPhillips Company
Ms. Cherie McCaulou, San Francisco Bay Region RWQCB
Mr. Muhammad Usman and Mr. Mahmood M. Ali, Property Owners – 800 Harrison Street
Mr. Peter Yee and Mr. Kin Chan, Property Owners – 726 Harrison Street
Mr. Bo Gin, Property Owner – 706 Harrison Street

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELY PM: K. ABBOTT TM: K. ABBOTT LYN: OPTION OFF REF
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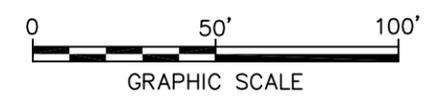


LEGEND

- PROPERTY BOUNDARY
- - - - - PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 ⊙ GROUNDWATER MONITORING WELL (GIN)
- VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE)
- AS-1 ⊠ AIR SPARGE WELL (YEE)
- EW-1 ⊕ EXTRACTION WELL (YEE)
- VE-1 ▽ DESTROYED WELL (YEE)
- GP-2 ● GEOPROBE™ (JUNE 2011)
- GP-1 ⊙ PROPOSED BORING LOCATION

NOTE:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.



UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA	
PROPOSED LOCATIONS	
	FIGURE 1

