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January 8, 2016

Mr. Mark Detterman
Senior Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 2:40 pm, Jan 08, 2016

Dear Mr. Detterman:

Attached for your review is the *Pilot Test Work Plan Addendum* for former Chevron service station 97127, located at 10 Grant Line Road in Mountain House, California (Case #: RO0000185). This report was prepared by Stantec Consulting Services Inc. (Stantec), 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 or the Stantec project manager, Brian Westhoff, at (916) 384-0710, or brian.westhoff@stantec.com.

Sincerely,

A handwritten signature in cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
916-861-0400

January 8, 2016

Attention: Mark Detterman

Senior Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Reference: Pilot Test Work Plan Addendum

Former Chevron Service Station No. 97127
Alameda County Case No. RO0000185
10 Grant Line Road, Mountain House, California

Dear Mr. Detterman,

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) presents this *Pilot Test Work Plan Addendum* (Addendum) for the Former Chevron Service Station No. 97127, located at 10 Grant Line Road in Mountain House, California (the 'site'). This Addendum is provided in response to correspondence from Alameda County Environmental Health (ACEH), dated December 11, 2015. This Addendum describes the well installation protocols and locations of three observation wells to be constructed in addition to the approved scope of work outlined in the *Pilot Test Work Plan*, dated October 29, 2015.

WELL INSTALLATION PROCEDURES

Stantec will subcontract with a C57 drilling contractor to install three piezometer wells (PZ-1 through PZ-3) to approximately 37 feet below ground surface (bgs). Proposed well depths and screen intervals are consistent with MW-1. The proposed well locations are shown in the attached revised **Figure 2**; however, actual well locations will depend on well clearance activities and field conditions. Wells will be installed using sonic drilling methods. All down-hole drilling equipment will be decontaminated before use and between drilling locations.

Boreholes will be cored and logged every five feet; MW-1 is in close proximity to all three locations and has already been profiled. Lithologic data will be used to confirm the screen interval for each of the wells. Boreholes will be logged by a Stantec field geologist working under the direct supervision of a California professional geologist using the Unified Soil Classification System. Recovered soils will be field screened for the presence of VOC vapors using a photoionization detector (PID).

Well construction shall consist of one-inch diameter Schedule 40 PVC well casing with 15 feet of 0.020-inch slotted well screen. To be consistent with the existing well array and historical lithology observed, the wells will be screened from approximately 22 to 37 feet bgs. A sand filter pack will be placed in the annular space surrounding the screened interval and will extend approximately one foot above the top of the well screen. One foot of transition sand will be placed above the sand filter pack to aid in the hydration of the bentonite. A two to three-foot bentonite annular seal will be placed above the transition sand and hydrated. The remainder of the annular space will be filled with cement grout from the top of the bentonite seal to



January 8, 2016
Mark Detterman
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**Reference: Pilot Test Work Plan Addendum
Former Chevron Service Station No. 97127
Alameda County Case No. RO0000185
10 Grant Line Road, Mountain House, California**

approximately one foot bgs. Each well will then be secured with a locking well cap, and completed with a flush mounted traffic-rated well box installed at grade. The locations of the newly installed wells will be surveyed upon completion of this scope of work.

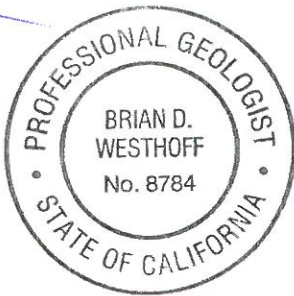
Any investigation derived waste will be appropriately stored on-site and subsequently transported and disposed of at a State-certified disposal facility.

Please feel free to contact me at 916-384-0710 or 916-291-9223 if you have any questions or concerns.

Regards,
Stantec Consulting Services Inc.

Brian Egger
Associate Scientist

Brian Westhoff, PG
Senior Geologist



- CC. Ms. Carryl MacLeod, EMC (via electronic upload to Strata)
- Mr. Ardavan Onsori, DM Livermore, Inc.
- Mr. Wyman Hong, Zone 7 Water Agency
- Martin & Jeanne Moghadam
- Ahmad & Shala Mostofi – 37 Victoria Drive, Atherton, CA 94027

ATTACHMENT

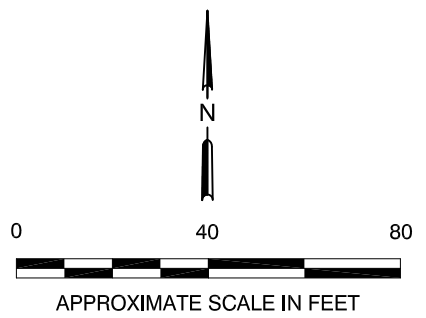
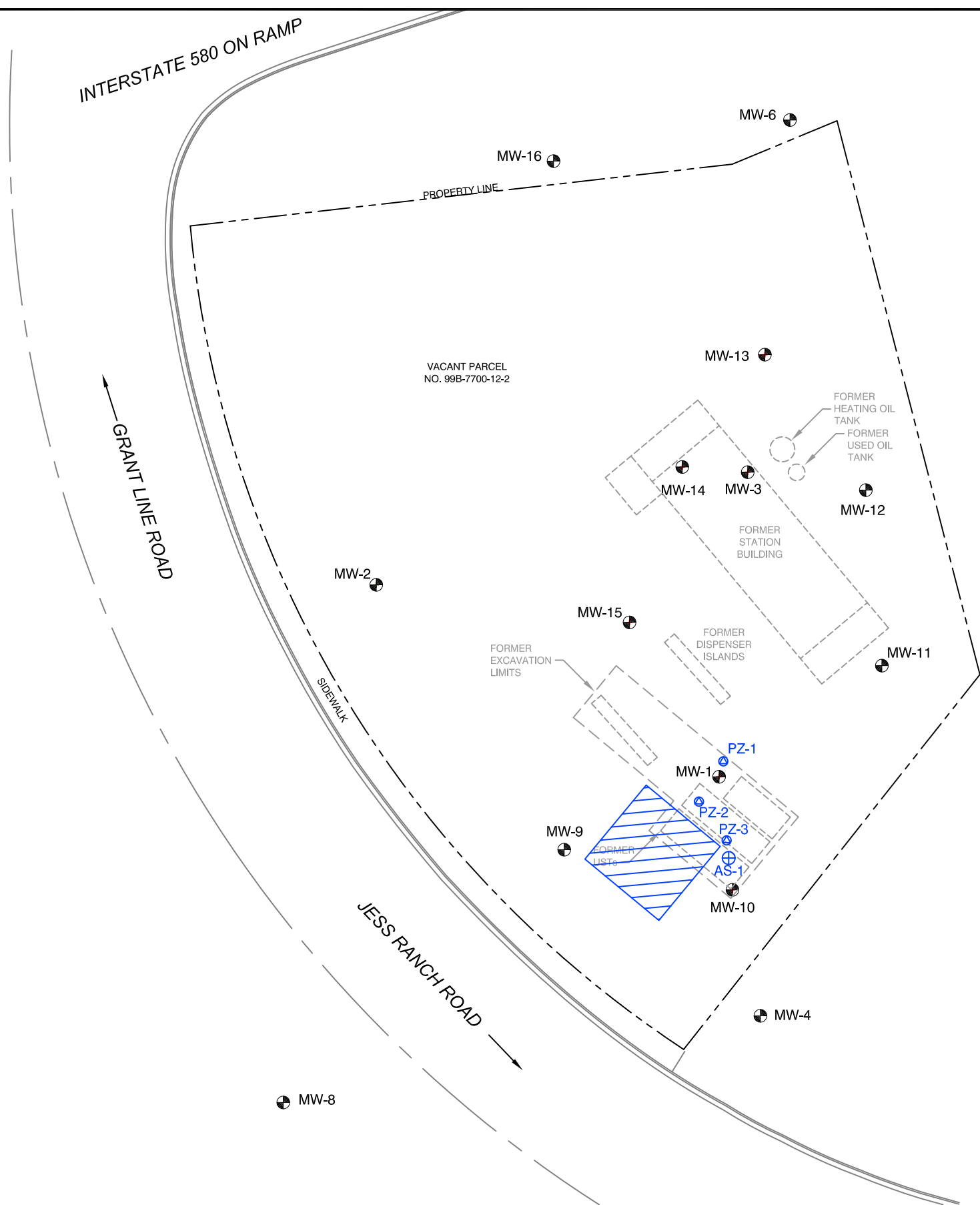
FIGURE 2 – Site Plan with Proposed Wells

ATTACHMENT

INTERSTATE 580 ON RAMP

LEGEND:

- PROPERTY LINE
- MW-1 ⊕ GROUNDWATER MONITORING WELL
- AS-1 ⊕ PROPOSED AIR SPARGE WELL
- PZ-1 ⊕ PROPOSED PIEZOMETER
- ▨ PROPOSED EQUIPMENT AREA



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	FOR: FORMER CHEVRON SERVICE STATION NO. 97127 10 GRANT LINE ROAD MOUNTAIN HOUSE, CALIFORNIA		SITE PLAN WITH PROPOSED WELLS		FIGURE: 2
	JOB NUMBER: 185750361	DRAWN BY: JY	CHECKED BY: JR	APPROVED BY: BW	DATE: 91/07/16