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8:55 am, Aug 21, 2008

Alameda County
Environmental Health

Ian Robb
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
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August 20, 2008

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RE: Chevron Service Station # 9-5607

Address: 5269 Crow Canyon Rd., Castro Valley

I have reviewed the attached report dated August 15, 2008.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga Rovers and Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code section 13267(b) (1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Ian Robb

Attachment: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

August 15, 2008

Mr. Steven Plunkett
Alameda County Environmental Health Services (ACEHS)
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Well Destruction Work Plan**
Former Chevron Service Station #9-5607
5269 Crow Canyon Road
Castro Valley, California
CRA Project No. 311950

Dear Mr. Plunkett,

On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers & Associates, Inc. (CRA) is submitting this *Work Plan for well destruction* near the above referenced site (figure 1). Prior to redevelopment of the adjacent site, CRA proposes to destroy off-site monitoring well C-15, which is located on the adjacent property (figure 2). The adjacent property was originally owned by Alameda County when the well was installed. The property was sold to the current landowner, who plans to develop the property with single family homes. The site background and CRA's proposed scope of work are presented below.

SITE BACKGROUND

The site is located on the south side of Crow Canyon Road on a westward sloping hillside approximately one mile north of Interstate 580. Surrounding land use is primarily residential with several regional parks nearby. Crow Canyon Creek is located approximately 350 feet to the west. An automotive repair business currently occupies the site.

According to property owner Kevin Hinkley, the site operated as a Chevron service station between 1963 and 1990. An inventory record review in 1985 indicated approximately 670 gallons of gasoline leaked from 1 of the underground storage tanks (UST) on-site. The suspected leaking UST and associated product lines were removed from the site in 1985. Records show that between 1985 and 1990, 17 groundwater monitoring wells and 1 recovery well were installed on- and off-site. Of these 18 wells, 1 was destroyed in 1990 and 2 were destroyed in 2001. When station operations ceased in 1990, the remaining USTs, fuel dispensers and associated piping were excavated and removed. The automobile repair facility currently utilizes one used-oil UST.

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Site Geology: The site is underlain by interbedded clays, silts, clayey sands and clayey gravels to the maximum explored depth of approximately 55 feet below grade (fbg). Shale to silty sandstone bedrock was encountered between 27 and 48 fbg on-site. Bedrock has been identified as shallow as 18 fbg in off-site borings.

Groundwater Conditions: Quarterly monitoring has been conducted at the site since 1985. Groundwater has historically been measured between 5 to 33 fbg on-site and between 4 to 30 fbg off-site, depending on well location. Variability in groundwater elevation may be due to seasonal groundwater fluctuations and the site topography. Groundwater generally flows southwesterly at a gradient ranging from 0.09 to 0.30 ft/ft. Non-aqueous phase liquid hydrocarbons were observed in groundwater monitoring well C-3 from third quarter 2002 through first quarter 2007.

PROPOSED WELL DESTRUCTION

CRA proposes to destroy off-site monitoring well C-15 prior to off-site redevelopment. The well was installed in 1990 and has been sampled quarterly since. Historically, total petroleum hydrocarbons as gasoline (TPHg) have remained stable and all other constituents have decreased. For the third quarter 2008 sampling and monitoring event, TPHg was detected at 520 micrograms per liter ($\mu\text{g/L}$), toluene at 1.0 $\mu\text{g/L}$, xylenes at 1.0 $\mu\text{g/L}$, and methyl tertiary butyl ether MTBE at 6.0 $\mu\text{g/L}$. No benzene or ethylbenzene was detected. Well destruction details are described below.

Permits: CRA will obtain a well permit from the Alameda County Public Works Agency (ACPWA) and an access agreement from the off-site property owner prior to beginning any field activities. A minimum of 48 hours notice will be given to ACPWA prior to field work.

Site Health and Safety Plan: CRA will prepare a comprehensive site health and safety plan to protect site workers. The plan will be reviewed and signed by all site workers and visitors and kept on-site at all times.

Well Destruction: CRA will pressure grout well C-15 by injecting Portland cement through a tremie pipe under pressure to the bottom of the well. Once the well casing is full of grout, it will be pressurized for five minutes by applying 25 pounds per square inch of pressure with a grout pump. After pressurizing, the well box and any associated above ground structures will be removed and finished to match the existing grade. Standard field procedures for monitoring well destruction are presented as Attachment A.

Underground Utility Location: Utility location is unnecessary since no subsurface penetration will occur.

Soil and Water Disposal: Any waste generated during this event will be stored on the former Chevron station property in properly labeled DOT-approved 55-gallon drums pending analysis and proper disposal.



**CONESTOGA-ROVERS
& ASSOCIATES**

Mr. Steven Plunkett
August 15, 2008

Reporting: After the well has been properly destroyed, CRA will prepare a well destruction report summarizing well destruction details. CRA will send completed Department of Water Resources well destruction reports to ACPWA for proper distribution.

SCHEDULE

CRA will schedule the field work upon approval of this work plan and finalization of a pending access agreement with the land owner. CRA will submit a *Well Destruction Report* approximately 60 days after completing the field work.

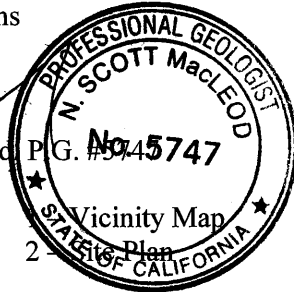
CLOSING

We appreciate the opportunity to work with you on this project. Please contact Charlotte Evans at (510) 420-3351 or Ian Robb at (925) 543-2375 if you have any questions or require additional information.

Sincerely,

Conestoga-Rovers & Associates, Inc.

Charlotte Evans



Scott MacLeod P.G. #5747

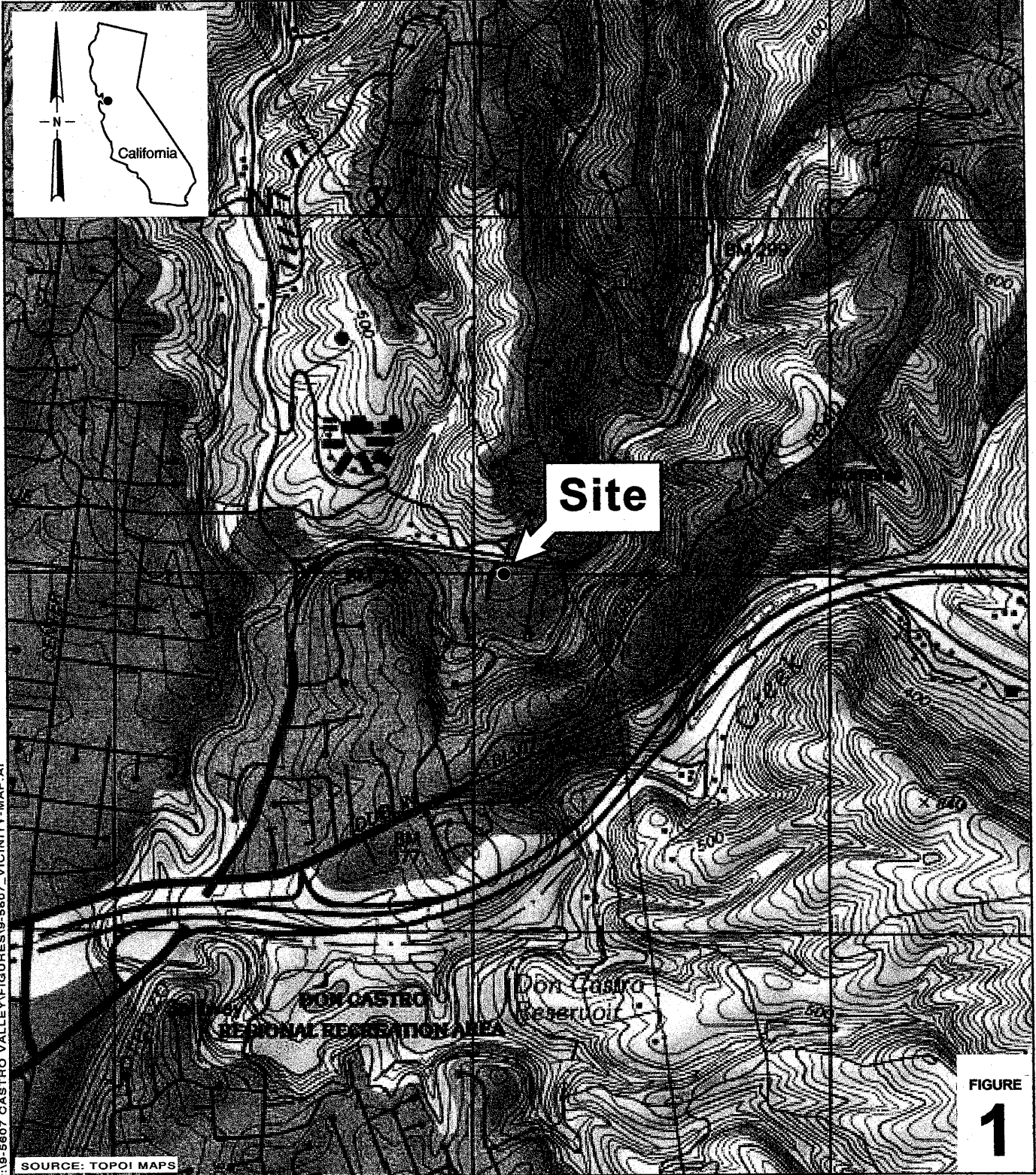
Figures:

Vicinity Map
2 - Site Plan

Attachments: A – Standard Field Procedures for Monitoring Well Destruction

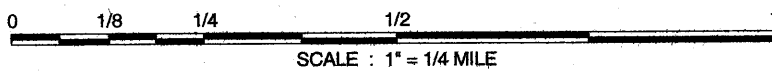
cc: Mr. Ian Robb, Chevron Environmental Management Company, 6111 Bollinger Canyon Road, BR-Y 3612, San Ramon, California 94583
Mr. Kevin Hinkley, 5269 Crow Canyon Road, Castro Valley, California 94552
Mr. Raymond Wong, WY Development, LLC, 883 Corporate Way, Fremont, California 94539

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1:9-5607 CASTRO VALLEY FIGURES 9-5607 VICINITY-MAP-A1

FIGURE
1



Former Chevron Station 9-5607
 5269 Crow Canyon Road
 Castro Valley, California

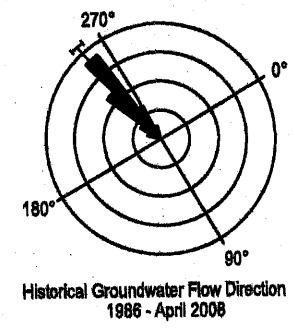


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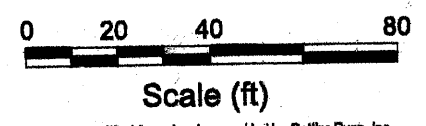
Vicinity Map

EXPLANATION

- C-5 [X] Well proposed for destruction
- C-1 [dot] Monitoring well location
- C-4 [X] Abandoned/destroyed monitoring well location
- RW-1 [dot] Extraction well location
- SB-1 [circle] Soil boring location



9-5607 CASTRO VALLEY\9-5607_EXP-SITEPLAN.DWG



Basemap modified from drawing provided by Gettler-Ryan, Inc.

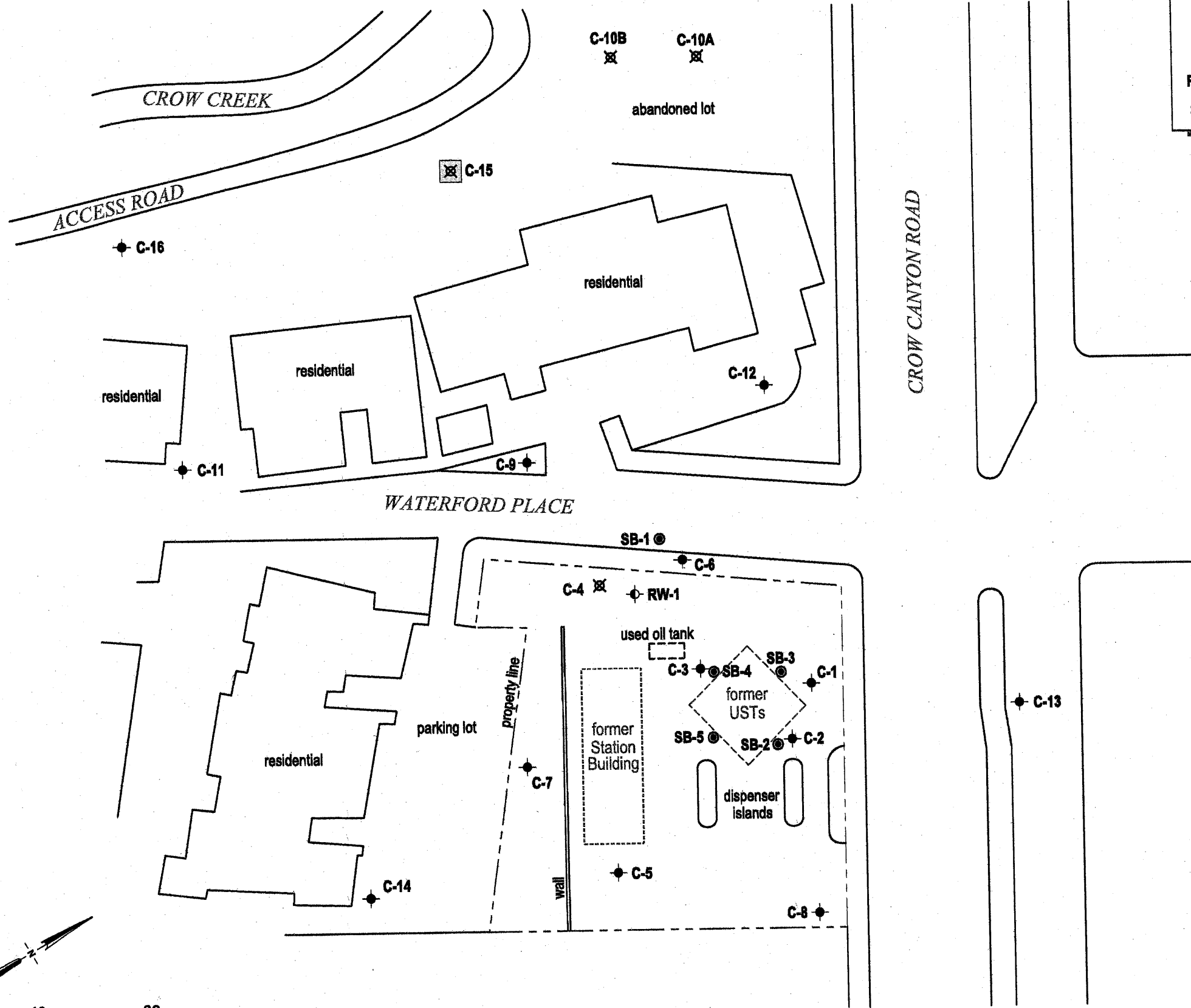
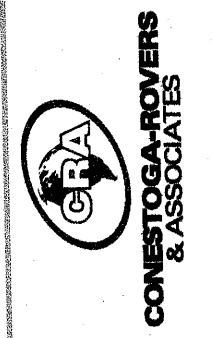


FIGURE 2



Former Chevron Station 9-5607
5289 Crow Canyon Road
Castro Valley, California



**CONESTOGA-ROVERS
& ASSOCIATES**

ATTACHMENT A

Standard Field Procedures for Monitoring Well Destruction

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR MONITORING WELL DESTRUCTION

This document presents standard field methods for properly destroying groundwater monitoring wells. The objective of well destruction is to destroy wells in a manner that is protective of potential water resources. The two procedures most commonly used are pressure grouting and drilling out the well. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Pressure Grouting

Pressure grouting consists of injecting neat Portland cement through a tremie pipe under pressure to the bottom of the well. The cement is composed of about five gallons of water to a 94 pound sack of Portland I/II Cement. Once the well casing is full of grout, it is pressurized for five minutes by applying a pressure of 25 pounds per square inch (psi) with a grout pump. The well casing can also be pressurized by extending the well casing to the appropriate height and filling it with grout. In either case, the additional pressure allows the grout to be forced into the sand pack. After grouting the sand pack and casing, the well vault is removed and the area resurfaced or backfilled as required.

Well Drill Out

When well drill out is required, the well location is cleared for subsurface utilities and a hollow-stem auger (or other appropriate) drilling rig is used to drill out the well casing and filter pack materials. First, drill rods are placed down the well and used to guide the augers as they drill out the well. A guide auger is used in place of the drill rods if feasible. Once the well is drilled out, the boring is filled with Portland cement injected through the augers or a tremie pipe under pressure to the bottom of the boring. The well vault is removed and the area resurfaced or backfilled as required.

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