



December 9, 2010

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda County, CA 94502-6577

RECEIVED

10:14 am, Dec 10, 2010

Alameda County
Environmental Health

Re: Local ID # RO0002938 and RO0002923 Perjury Statement

Dear Jerry,

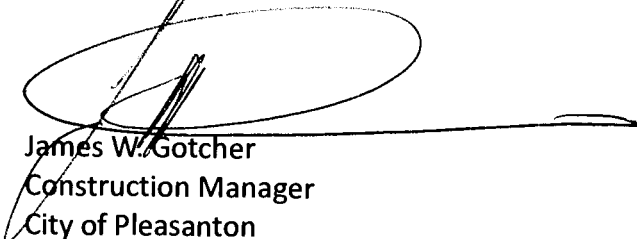
I attach the requested Perjury Statement.

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following:

"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

If you have any questions or need to reach me regarding this case, please feel free to contact me directly at 925-931-5684.

Best Regards,



James W. Gotcher
Construction Manager
City of Pleasanton

Project No.
6621.100.120

December 1, 2010

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6540

Subject: Fire Station No. 3, Santa Rita Road
Pleasanton, California

**WORKPLAN FOR INSTALLATION OF GROUNDWATER
MONITORING WELLS**

Dear Mr. Wickham:

ENGEO is pleased to present this workplan for the installation of three groundwater monitoring wells at 3200 Santa Rita Road in Pleasanton, California (Site). Based on correspondence dated November 17, 2009, between the Alameda County Environmental Health (ACEH) and the City of Pleasanton, we understand that a groundwater monitoring program has been requested for the Property.

PREVIOUS STUDIES

Publically available information indicates that two underground storage tanks (USTs) were removed from the Site in September 2006. The USTs were both 500 gallons in volume; one tank was used for gasoline, and the other tank was used for diesel fuel. The tanks were reportedly free of holes or rust, but associated piping was found to have been rusted with visible leaks. Confirmation soil samples recovered at the time of tank removal exhibited detectable concentrations of petroleum hydrocarbons, with the maximum concentration of 2,800 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons as diesel (TPH-d) detected in an excavation sidewall sample.

Additional soil materials were excavated from the former tank locations in November 1996. A sample collected from a gravel soil layer, 2 feet below the ground surface (bgs), exhibited a TPH-d concentration of 12,000 mg/kg. Following additional excavation, a sample collected from the same gravel layer exhibited a trace TPH-d concentration of 2 mg/kg.

In June 2007, Kleinfelder advanced a soil boring near the former UST location for the purpose of soil and groundwater characterization; however, the boring was terminated before groundwater was encountered. A soil sample collected from a depth of 12 feet bgs exhibited a TPH-d concentration of 2.2 mg/kg. An additional boring was advanced at the Site in April 2008. A shallow groundwater sample and a soil sample collected from a depth of 15 feet bgs exhibited

TPH-gasoline (TPH-g) and TPH-motor oil (TPH-mo) concentrations in excess of respective Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board.

Kleinfelder performed an additional site investigation in March 2009. Five soil borings were advanced to a maximum depth of 60 feet bgs. Both soil and groundwater samples were collected from the soil borings. Kleinfelder reported one soil sample collected from a depth of 12 feet exhibited TPH-d concentrations in excess of the respective ESL; however, a sample collected from a depth of 16 feet exhibited a TPH-d concentration below the respective ESL. Three groundwater samples exhibited TPH concentrations in excess of respective ESLs. Although Kleinfelder recommended no further action for the Site, they later concurred with the recommendation of ACEH for the installation of groundwater monitoring wells at the Site.

MONITORING WELL INSTALLATION

In order to characterize potential groundwater impact, we propose to install one monitoring well in each of the following three locations: near the location of the former USTs, and near the respective locations of previously drilled soil borings, SB-4 and SB-5. Figures 2 and 3 depict the proposed locations of the monitoring wells and typical construction details, respectively. The monitoring wells will be constructed in general accordance with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 4, Section 2649. Onsite workers will possess OSHA HAZWOPER training (24/40 hour). Prior to beginning the work, we will obtain a well permit from the Zone 7 Water Agency and complete a Site Hazard Form. A site-specific health and safety plan is provided as an attachment. Our proposed scope for the monitoring well installation is outlined below.

Prior to drilling, we will mark the location of the four borings and contact Underground Services Alert (USA). We will retain a C-57 licensed drilling contractor to advance three approximate 8-inch diameter borings to an approximate depth of 65 feet below ground surface (bgs) using a hollow-stem auger. The well borings will be logged by an ENGEO geologist or engineer under the supervision of a Professional Geologist or Certified Hydrogeologist. Soil cuttings from the three borings will be logged continuously and screened with a photoionization detector for volatile organic vapors. Soil exhibiting significant PID readings will be retained for laboratory analyses.

The wells will be constructed using 2-inch diameter PVC well casing and screened (0.020 slot size) from approximately 50 to 65 feet bgs. A sand filter pack (typical #3 lonestar) will be installed around the PVC casing from 48 to 65 feet bgs. A 2-foot thick bentonite seal will be applied atop the sand filter pack. The remaining annular space will be filled with a neat cement grout seal to the ground surface. The wells will be completed with traffic rated flush-mount iron well boxes. A typical well construction detail is provided in Figure 3.

Following installation of the wells, we will retain a licensed surveyor to survey the top of casing and latitude/longitude for the three wells. Soil cuttings, rinsate, and purge water will be contained in 55-gallon drums and transported to an offsite disposal facility within 90 days.

Once the new wells are allowed to equilibrate a minimum of 72 hours, the wells will be developed using a submersible pump prior performing the first sampling event. A minimum of 72 hours after well development, groundwater samples will be collected from the three wells using the following procedures:

- The depth to the groundwater surface within each respective well will be measured using an electronic water level indicator.
- A minimum of three well casing volumes of groundwater will be purged from each well using a submersible pump.
- Groundwater parameters, such as pH, temperature, and conductivity will be monitored and recorded during purging.
- The purge water will be transferred into labeled 55-gallon drums to be temporarily stored pending disposal. Upon review of analytical results, the drums will be transported to a disposal facility.
- Groundwater samples will be obtained using new single-use disposable bailers and transferred to laboratory provided pre-preserved sample containers, which will be labeled to indicate the sample identification, sample location, date and time of collection and sampler's identification.
- The groundwater samples will be preserved in a chilled cooler during transportation to the analytical laboratory with a chain-of custody record.
- The groundwater samples will be submitted to a DHS-certified laboratory for the analysis of the following:
 - Total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylene(s) (BTEX) and fuel oxygenates (EPA 8260B)
 - Total petroleum hydrocarbons as diesel (TPH-d) and motor oil (TPH-mo) (EPA/8015M with silica gel cleanup)
- A summary of the well installation activities and groundwater sampling results will be provided in a letter report and submitted to ACEH. All reports and analytical data will be electronically uploaded to the California State Water Resources Control Board (SWRCB) GeoTracker website. Well construction details, reports, and analytical data will also be electronically uploaded to the GeoTracker website.


Alameda County Environmental Health
Fire Station No. 3, Santa Rita Road, Pleasanton
WORKPLAN FOR INSTALLATION OF GROUNDWATER
MONITORING WELLS

6621.100.120
December 1, 2010
Page 4


If you have any questions on any portion of the workplan, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated


Jeffrey A. Adams, PhD, PE
Associate

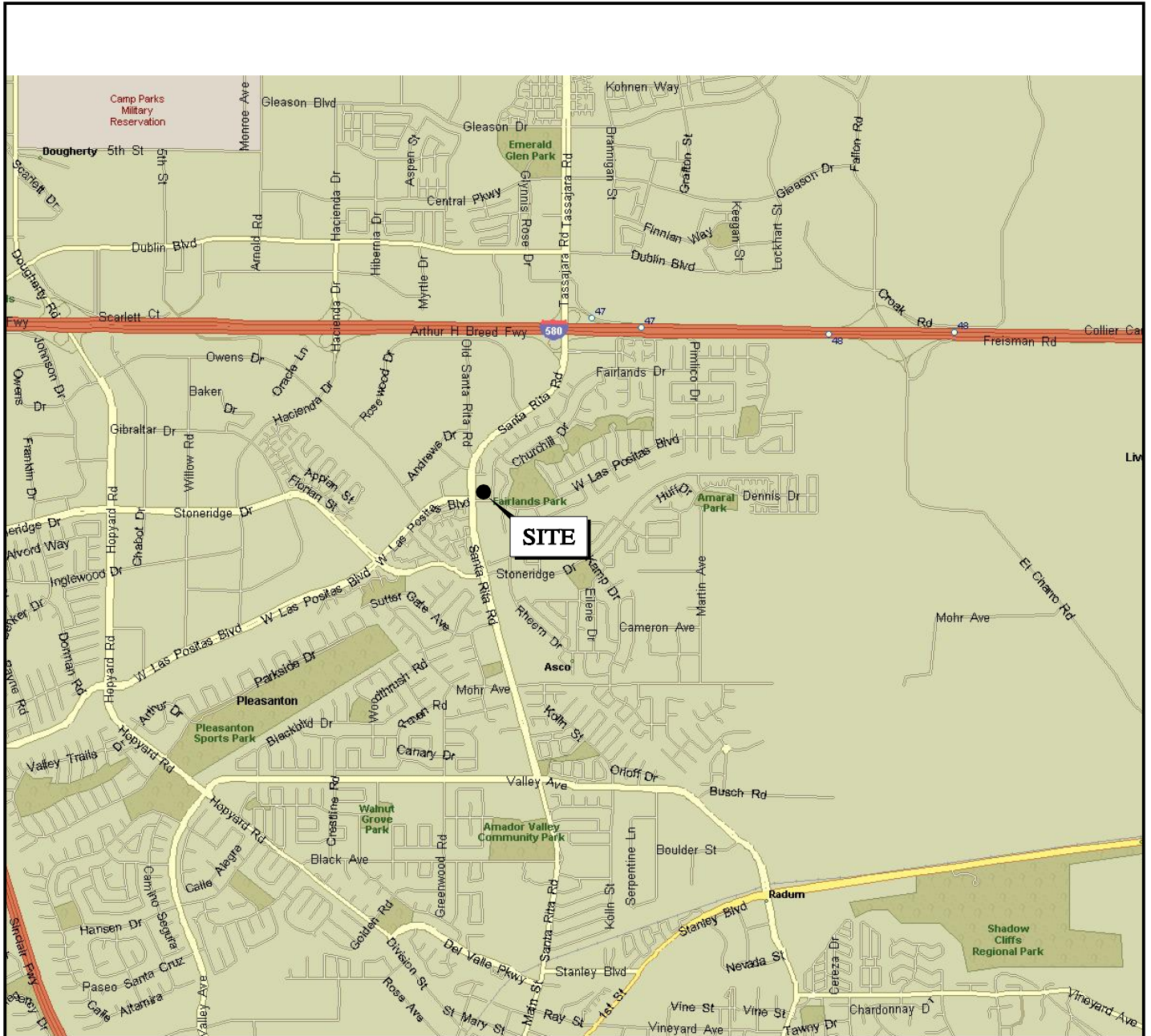



Shawn Munger, CHG, REAII
Principal

Attachments: Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Monitoring Well Construction
Health and Safety Plan

cc: Mr. James W. Gotcher III, City of Pleasanton

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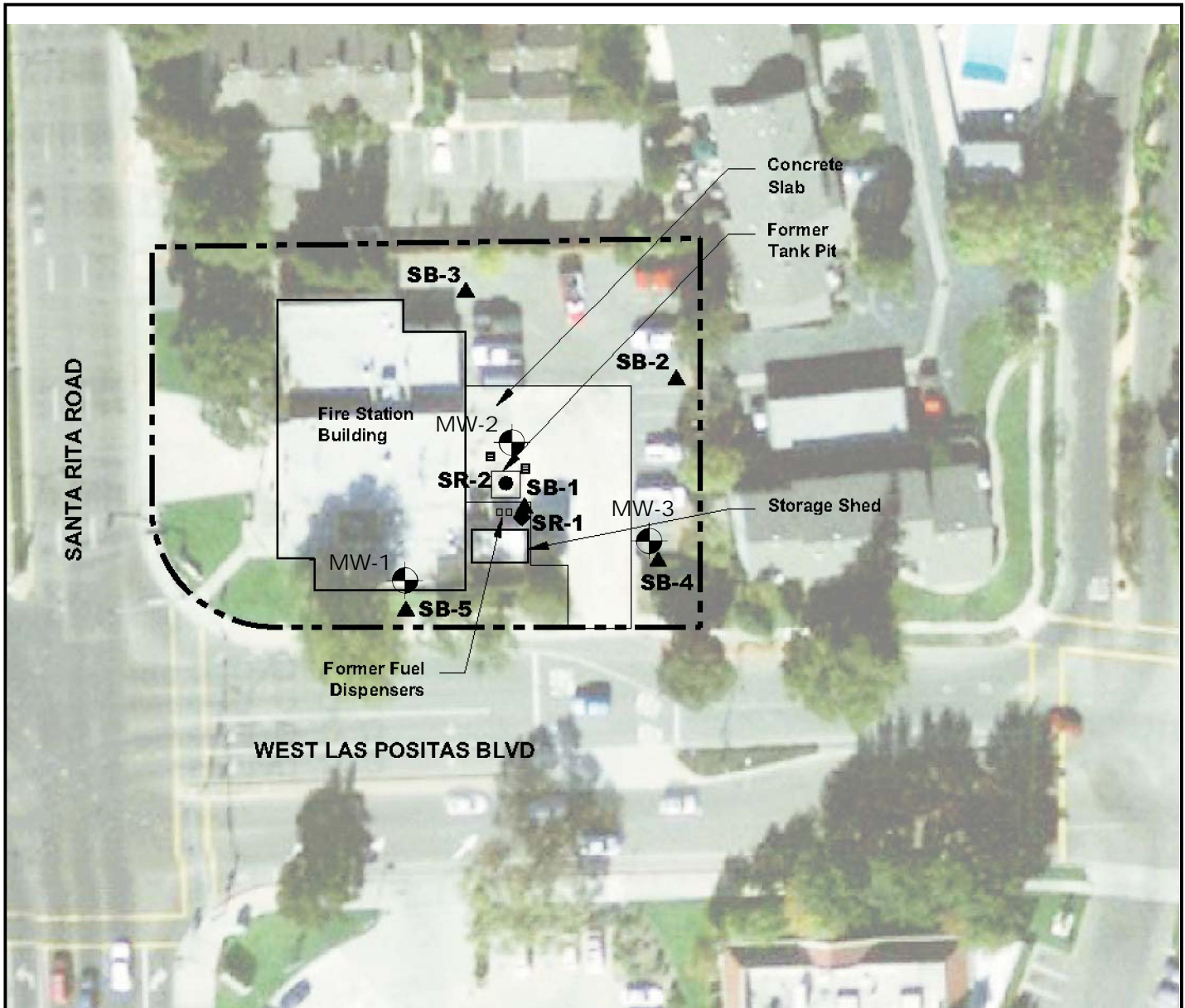


BASE MAP SOURCE: MS STREETS AND TRIPS



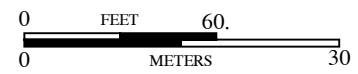
VICINITY MAP
FIRE STATION #3, 3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PROJECT NO.: 6621.100.120		1
DATE: DECEMBER 2010		
DRAWN BY: SRP	CHECKED BY: SH	



EXPLANATION

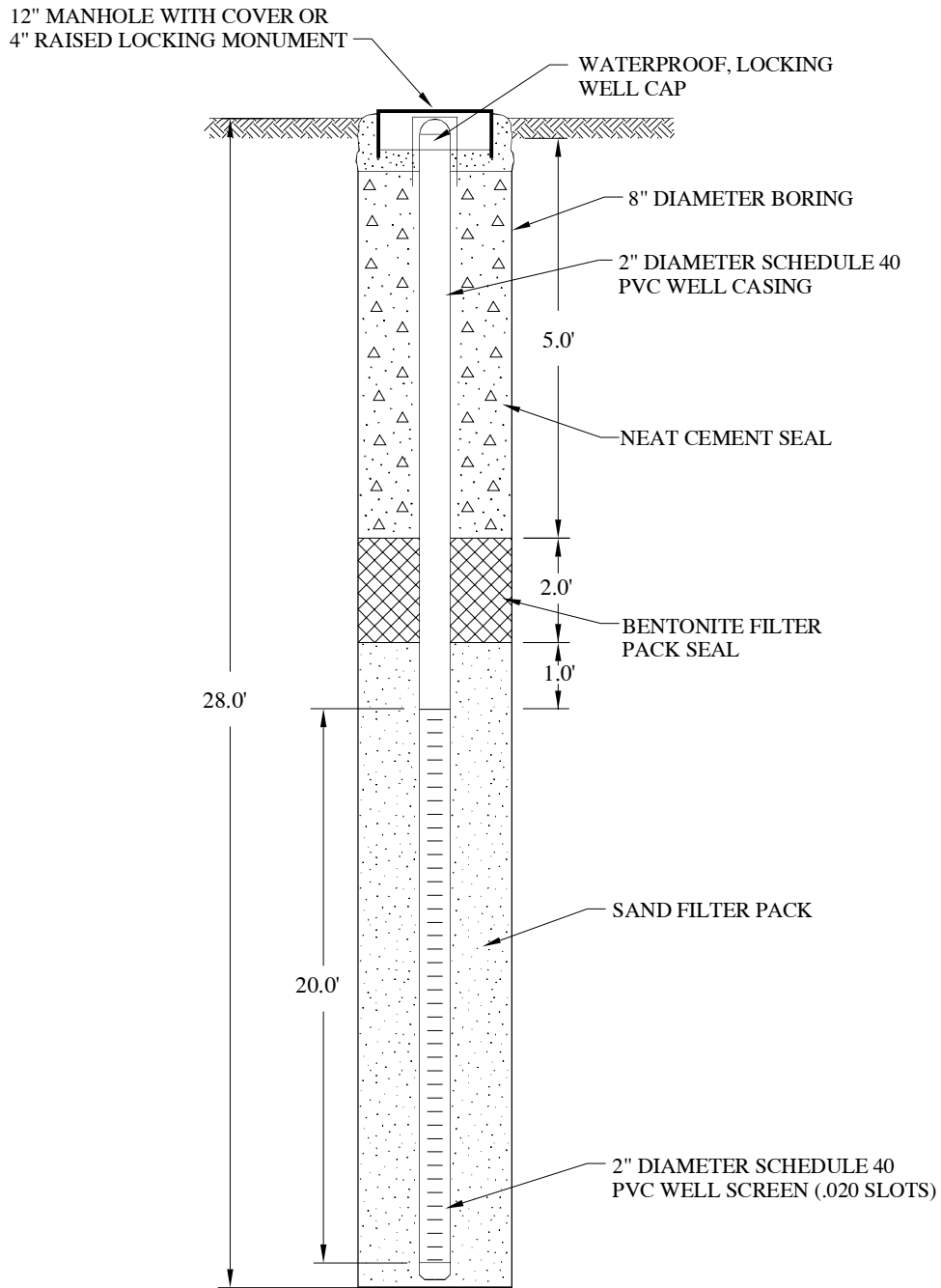
- PROPERTY LINE
- STORM DRAIN INLET
- SR-1** APPROXIMATE LOCATION OF SOIL BORING (KLEINFELDER, 2007)
- SR-2** APPROXIMATE LOCATION OF SOIL BORING (KLEINFELDER, 2008)
- SB-5** APPROXIMATE LOCATION OF SOIL BORING (KLEINFELDER, 2009)
- MW-3** APPROXIMATE LOCATION OF PROPOSED MONITORING WELL



BASE MAP SOURCE: KLEINFELDER, GOOGLE EARTH, 2008

	SITE PLAN FIRE STATION #3, 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA		PROJECT NO.: 6621.100.120 DATE: DECEMBER 2010 DRAWN BY: SRP CHECKED BY: SH	FIGURE NO. 2
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NO SCALE



MONITORING WELL CONSTRUCTION
FIRE STATION #3, 3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PROJECT NO.: 6621.100.120

DATE: DECEMBER 2010

DRAWN BY: SRP

CHECKED BY: SH

FIGURE NO.

3

SITE HEALTH AND SAFETY PLAN

I. PROJECT INFORMATION

Project Number: 6621.100.120	Date: November 24, 2010
Project Name: Fire Station No. 3, Santa Rita Rd.	Client: City of Pleasanton
Contact: Jeffrey A. Adams	Phone: 925-866-9000
Site Location: 3200 Santa Rita Road, Pleasanton, California	
Site Description: Livermore-Pleasanton Fire Station	

Type of Work:

- | | |
|--|--|
| <input type="checkbox"/> Soil Borings (geotechnical) | <input checked="" type="checkbox"/> Monitoring Well Installation |
| <input type="checkbox"/> Soil Sampling (environmental) | <input type="checkbox"/> Domestic/Irrigation Well Installation |
| <input type="checkbox"/> Piezometer Installation | <input type="checkbox"/> Inclinator Installation |
| <input type="checkbox"/> Other: Geoprobes | |

Work Activities: Installation of three groundwater monitoring wells to a depth of 65 feet below the ground surface.

Site Personnel:

Company:	Responsibility:
ENGEO	Environmental field observation and sampling
Gregg Drilling	Drilling contractor

Project Health and Safety Officer:	Site Health and Safety Officer:
Shawn Munger	Richard Gandolfo

II. HAZARD EVALUATION

Physical Hazards

- | | |
|---|--|
| <input checked="" type="checkbox"/> Heat | <input type="checkbox"/> Explosion/Fire Hazards |
| <input type="checkbox"/> Oxygen | <input type="checkbox"/> Excavations/Trenches |
| <input checked="" type="checkbox"/> Noise | <input checked="" type="checkbox"/> Slip, Trip, Fall |
| <input type="checkbox"/> Traffic | <input type="checkbox"/> Underground Hazards |
| <input checked="" type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Overhead Hazards |

Expected Chemical Hazards

Not Applicable

Chemical Name (CAS)	PEL/TLV (ppm)	IDLH (ppm)	LEL %	Field Criteria
TPH/BTEX	----	----	----	See Attached

III. PERSONAL PROTECTIVE EQUIPMENT

Level of Protection Equipment

A B C D Mod. D

Personal Protective Equipment

R = Required

A = As Needed

R Hard Hat

A Safety Glasses

R Safety Boots

 Respirator (Type)

R Safety Vest

 Filter (Type)

A Hearing Protection

A Gloves (Type) Nitrile

 Tyvek Coveralls

 Other

Field Monitoring Equipment:

Photo ionization detector (PID)

Site Control Measures/Exclusion Zones:

Cones as necessary

IV. EMERGENCY RESPONSE

Emergency Response Plans:

Stop operations; evaluate conditions, administer first aid; call for emergency personnel; transport injured

Hospital: ValleyCare Health System	Phone: 925-847-3000
Address: 5555 West Las Positas Boulevard, Pleasanton, California 94588 (map attached)	
Fire Department: 911	Police: 911

Site Resources:

Water Supply	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Telephone	Yes	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>
Radio	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Other:				

Emergency Contact:

Name: Shawn Munger	Phone: 916-416-9000
Company: ENGEO	

Comments:

Preparer Signatures/Company:	Date

TABLE I
HYDROCARBON VAPOR CRITERIA AND RESPONSES

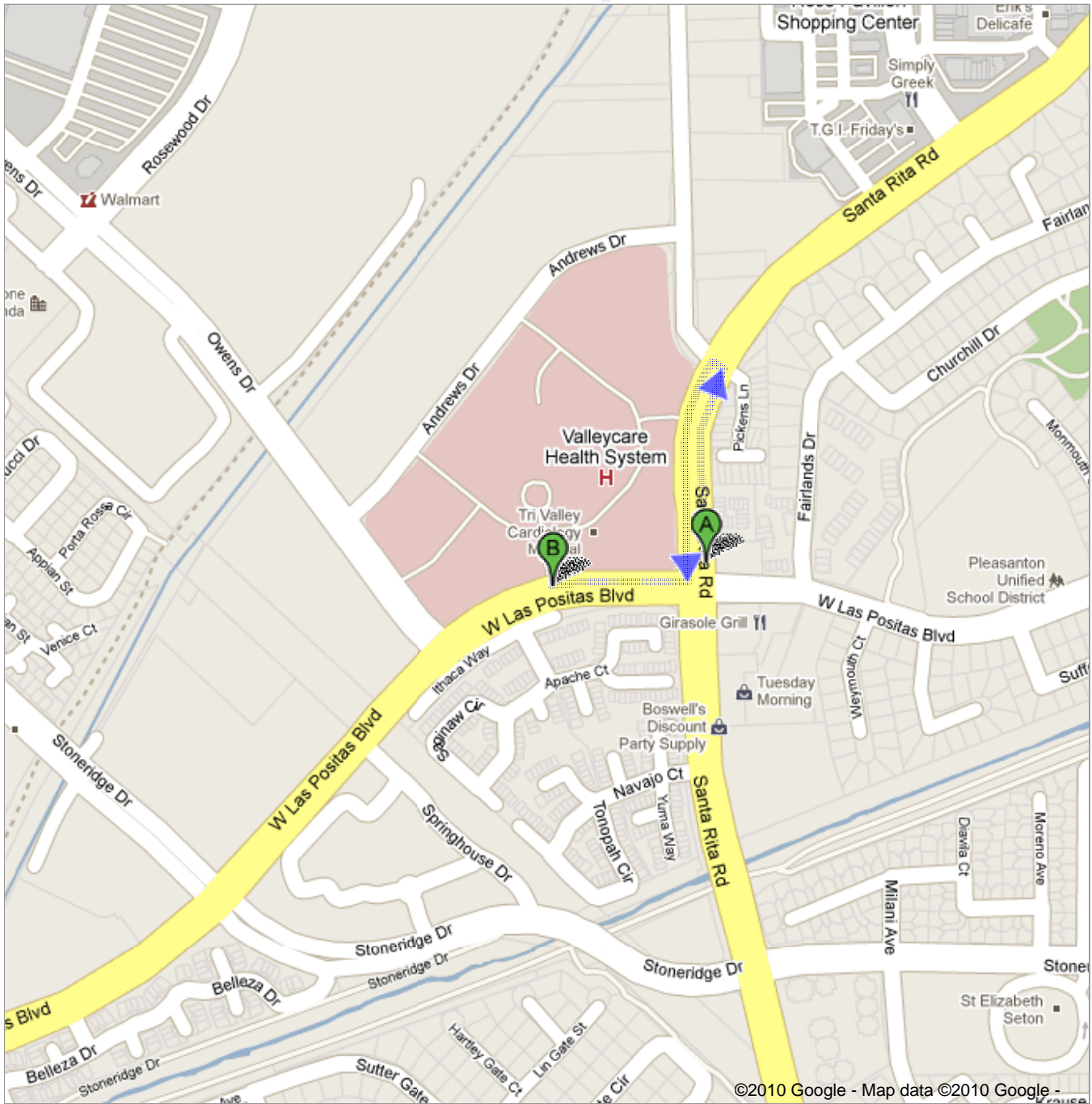
<u>Hydrocarbon Concentrations</u>	<u>Response</u>
<30 ppmv	No special action.
30 ppmv - 300 ppmv	Half-mask Organic Vapor (OV) respirators worn by all in work area.
>300 ppmv	Discontinue work activities and evacuate area. Evaluate measures to subdue excessive vapor levels.

* in parts-per-million by volume within breathing zone, measured by photoionization detector equipped with 10.04 eV bulb.



[Get Directions](#) [My Maps](#)

[Print](#) [Send](#) [Link](#)



Driving directions to 5555 W Las Positas Blvd, Pleasanton, CA 94588

3200 Santa Rita Rd
Pleasanton, CA 94588

1. Head north on **Santa Rita Rd** toward **Pickens Ln**

0.1 mi

2. Make a **U-turn** at **Pickens Ln**

0.2 mi

3. Turn **right** at **W Las Positas Blvd**

0.1 mi



5555 W Las Positas Blvd
Pleasanton, CA 94588

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2010 Google

[Report a problem](#)

5555 West Las Positas Boulevard,...

To see all the details that are visible on the screen, use the "Print" link next to the map.

