


Weiss Associates
Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411

FAX: 510-547-5043 Phone: 510-450-6000

TRANSMITTAL

TO: Scott Seery **DATE:** [REDACTED]
COMPANY: Alameda County Health Services Agency **PROJECT #:** 4-1129
 Department of Environmental Health
 1131 Harbor Bay Parkway, 2nd Floor
 Alameda, CA 94502
FROM: Tim Utterback, (510) 450-6193 **PHONE:** (510) 567-6783
FAX: (510) 337-9335

ENCLOSED PLEASE FIND: Vapor Purge Technique, Former Chevron Service Station #9-5607, 5269 Crow Canyon Road, Castro Valley CA

VIA:	FAX:	AS:	FOR:
<input checked="" type="checkbox"/> Fax	# of pages: <u>2</u>	<input type="checkbox"/> Per our phone call	<input checked="" type="checkbox"/> Your information
<input type="checkbox"/> 1 st Class Mail	(including this cover)	<input type="checkbox"/> You requested	<input type="checkbox"/> Return to you
<input type="checkbox"/> Overnight Delivery	<input type="checkbox"/> Hard Copy to follow	<input type="checkbox"/> Is required	<input type="checkbox"/> Your action
<input type="checkbox"/> UPS (Surface)		<input type="checkbox"/> We believe you may be interested	<input type="checkbox"/> Your review & comments
<input type="checkbox"/> Courier			

COMMENTS:

Attached is a figure explaining the purge technique that was used on 7/30/98 to collect vapor samples at the above referenced site. I previously stated, in the February 5, 1999, Soil Vapor Sample Collection Update, that we rejected the 7/30/98 data because the purge volume was unknown. I thought purge volume could not be estimated because the vacuum/volume system flow rate was not recorded.

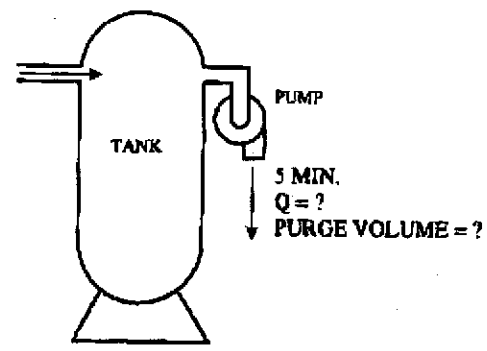
At the request of my supervisor and Richard Weiss, I re-investigated the possibility of estimating the purge volume. I discussed the use of the purge equipment with the manufacturer (Geoprobe Systems). Based on my discussion with Geoprobe, I concluded that the maximum possible purge volume was 7.72 liters as described in the attached figure. We found this purge volume acceptable. Please call me at 510 450-6193 if you have any questions. Geoprobe Systems can be contacted at 1-800-436-7762 if you have questions about technical aspects of the Vacuum/Volume System A1-1001.

Please call (510) 450-6000 if there are any problems with transmission.

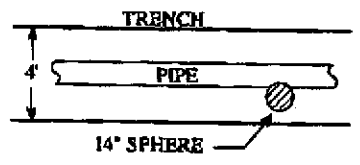
FAX CONFIDENTIALITY NOTICE

The information contained in this transmission is confidential and only intended for the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this facsimile transmittal is strictly prohibited. If you have received this facsimile in error, please call us immediately to arrange for the return of these documents.

F:\CLIENT\ENR\ENR\0411\041100\FAX\0411001.DOC

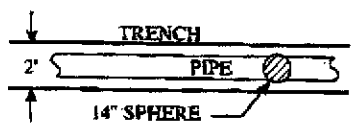


TRU thought Vac/Vol system was pumping continuously for 5 minutes with unknown flow rate.



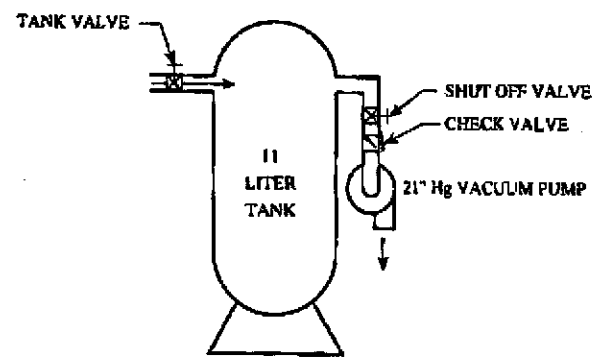
PLAN VIEW
SCALE: 1" = 8'

FIGURE 1



SECTION VIEW
SCALE: 1" = 8'

FIGURE 2



Based on our discussion with the manufacturer, Geoprobe Systems, the purge technique was consistent with their standard procedures for use of the Vacuum/Volume system. The Vac/Vol system evacuates 11 liter tank until 21" Hg gage pressure is achieved. The vacuum pump is shut off and the pump shut off valve is closed. The vapor sampling lines are then purged by opening the tank valve and drawing purge air in under the tank vacuum. The WA geologists allowed the tank to draw purge air in for 5 minutes. The maximum purge volume that can be removed by this system under 21" Hg is 7.72 liters. 7.72 liters will influence a subsurface spherical volume of approximately 14" diameter, which would be within the area of the trench backfill (see Figure 1 & 2). The sand backfill is approximately 100 times more permeable than the surrounding soil. Thus, we are confident that only trench vapors were sampled.

Figure 1. Description of Soil Vapor Purge Technique, Chevron SS# 9-5607, 5269 Crow Canyon Rd. Castro Valley, California