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**Alameda County
Environmental Health**

Olivia Skance
Project Manager
Marketing Business Unit

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

Re: Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, CA

I have reviewed the attached Response to Technical Comments dated May 12, 2008.

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

Olivia Skance
Project Manager

Attachment: Response to Technical Comments



**CONESTOGA-ROVERS
& ASSOCIATES**

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

May 20, 2008

Mr. Jerry Wickham
Alameda County Environmental Health Services (ACEHS)
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Response to Technical Comments**
Chevron Station #9-0917
5280 Hopyard Road
Pleasanton, California
ACEHS RO #0439

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) has prepared this *Response to Technical Comments* in response to the January 8, 2008 ACEHS letter (Attachment A) for the site referenced above on behalf of Chevron Environmental Management Company (Chevron). ACEHS has requested the following:

1. Installation of three additional soil vapor probes, along with the two proposed in the workplan submitted by CRA on December 6, 2007;
2. Re-submittal of the color version of the Well Location Map, submitted with the well survey, at a higher resolution,
3. Preparation of a revised rose diagram based on re-surveyed top of casing elevations (TOC) that accurately shows the hydraulic gradient from 1989 to present.

Presented below are the site description and responses to technical comments.

SITE DESCRIPTION

The site is an active Chevron station located at the southern corner of the intersection of Hopyard Road and Owens Drive in Pleasanton, California (Figure 1). Site facilities include a station building, car wash, four underground storage tanks (USTs) and three dispenser islands under a common canopy (Figure 2). A Shell-branded service station is located across Hopyard Road to the east of the site and has an open case with ACEHS. Land use surrounding the site is primarily commercial.

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RESPONSE TO TECHNICAL COMMENTS

1. Installation of three additional soil vapor probes, along with the two proposed in the workplan submitted by CRA on December 6, 2007

CRA submitted the *Response to Technical Comments for Installation of Vapor Probes* on April 8, 2008 to ACEHS. In that letter report, CRA stated that this site no longer poses a vapor intrusion risk. In the updated Regional Water Quality Control Board – San Francisco Bay Region's (RWQCB) 2007 *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, the groundwater screening levels for evaluation of potential vapor intrusion concerns were increased for many volatile constituents and the screening levels of volatilization of constituents from soil were removed. The screening level for benzene is now 540 µg/L for residential land use and 1,800 µg/L for commercial/industrial land use. Benzene is currently only detected in on-site monitoring well MW-5 at 60 µg/L. All other monitoring wells have been below method detection limits since the first quarter of 2005. Based on the new screening levels, the volatilization of benzene to indoor air is not considered a potential risk at either residential or commercial/industrial land use scenarios. CRA would again like to rescind our recommendations to install soil vapor probes from the proposed workplan submitted to ACEHS on December 6, 2007 based on the updated screening levels from the RWQCB guidance document.

2. Re-submittal of the color version of the Well Location Map, submitted with the well survey, at a higher resolution,

The Well Location Map provided by the Zone 7 Water Agency is included as Figure 3. If the resolution is still unclear, CRA will send a color copy by mail.

3. Preparation of a revised rose diagram based on re-surveyed top of casing elevations (TOC) that accurately shows the hydraulic gradient from 1989 to present.

On April 7, 2008, Morrow Surveying resurveyed all wells associated with the site for consistent TOC measurements. TOC measurements differed for all wells by more than 0.05 feet and all data tables were corrected for the new TOC measurements. Wells MW-1 through MW-3 were installed in July 1989 and subsequently destroyed in April 1991 for station reconfiguration, therefore the original TOC measurements are considered accurate. New potentiometric maps were created from quarterly monitoring reports from the third quarter of 1989 for wells MW-1 through MW-3, all destroyed, and for currently monitored wells MW-4 through MW-9. Hydraulic gradients could not be determined for five separate quarters of monitoring information due to fluctuating groundwater flow directions. All information was used to compile the new rose diagram on Figure 2. Tables 1 and 2 present the results of the well resurvey.



**CONESTOGA-ROVERS
& ASSOCIATES**

Mr. Jerry Wickham
May 20, 2008

Based on the new data, the groundwater flow direction is still primarily to the south, though it has periodically varied in multiple directions. The dissolved plume appears to be stable with the majority of hydrocarbon impact to groundwater vertically defined in water bearing zones above 10 fbg, down-gradient by soil boring GP-3 and monitoring wells MW-8 and MW-9, cross-gradient by monitoring wells MW-6, MW-7 and Shell monitoring wells S-6 and S-7, and up-gradient by monitoring well MW-4 and soil boring GP-5. Therefore, no additional monitoring wells to the north or northeast of the site are needed.

CLOSING

We appreciate the opportunity to work with you on this project. Please contact Charlotte Evans at (510) 420-3351 if you have any questions or comments.

Sincerely,

Conestoga-Rovers & Associates

Charlotte Evans

Brandon Wilken, P.G. #7564



Figures: 1 – Vicinity Map
 2 – Site Plan
 3 – Zone 7 Water Agency Well Location Map

Tables: 1 – Adjusted Groundwater Elevation Data
 2 – Groundwater Flow Directions

Attachment: A – ACEHS Correspondence, January 8, 2008

cc: Ms. Olivia Skance, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583
 Mr. Aaron Costa, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583
 Lamorinda Development and Investment, 89 Davis Road, Suite 160, Orinda, CA 95463
 C&H Development Company, 43 Panoramic Way, Walnut Creek, CA 94505

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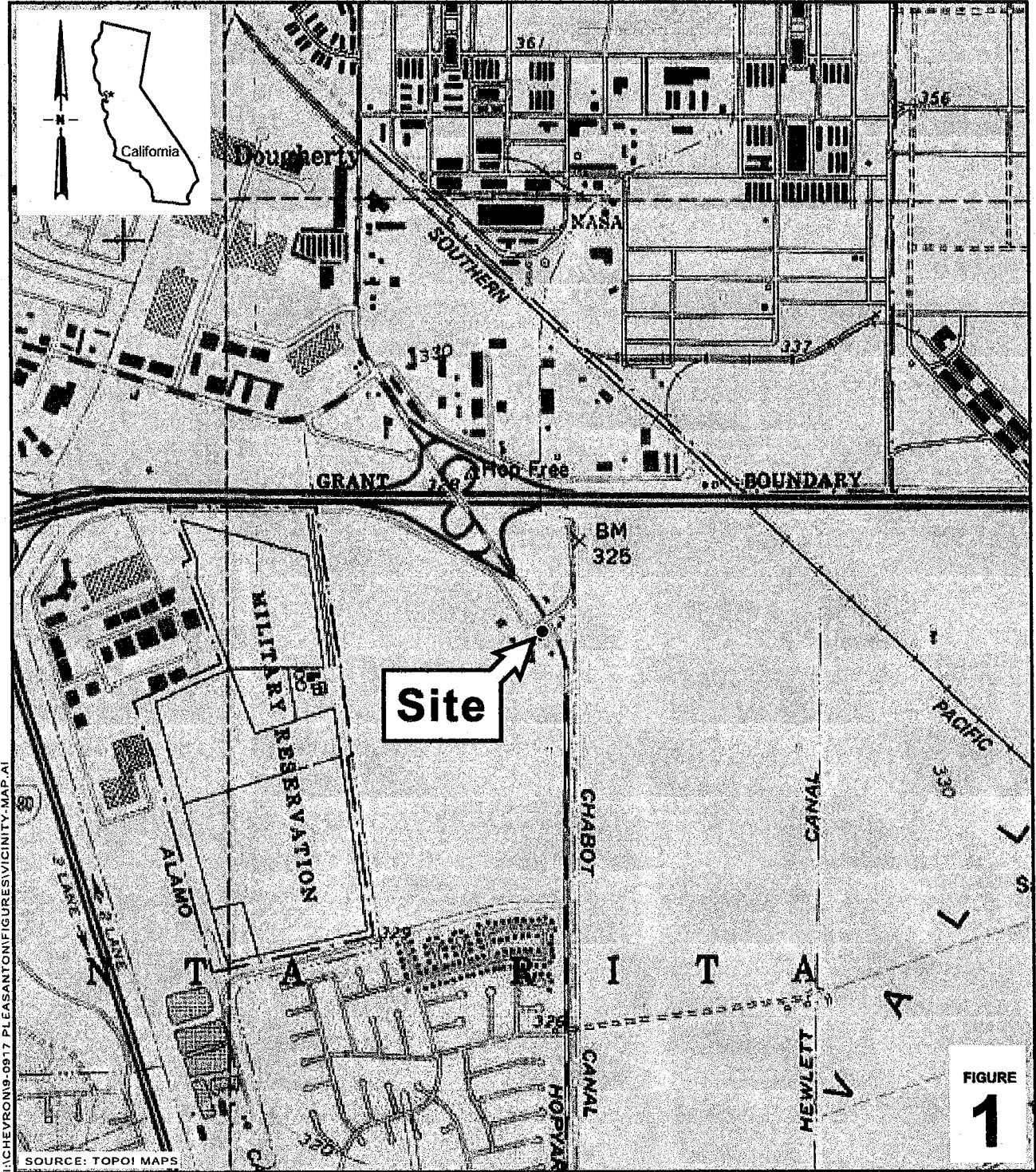


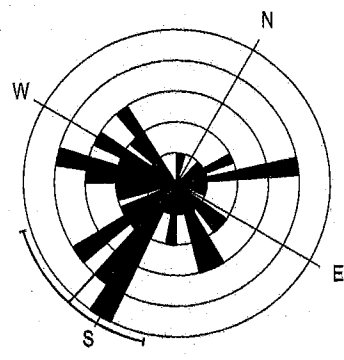
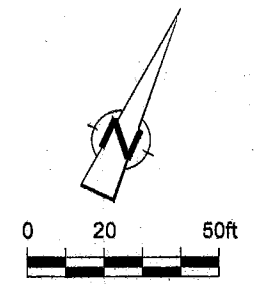
FIGURE
1

Chevron Service Station 9-0917
 5280 Hopyard Road
 Pleasanton, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Vicinity Map



Historical Groundwater Flow Direction
(1987 - 2008)

RESTAURANT

APPROXIMATE PROPERTY LINE

DRIVEWAY

OWENS DRIVE

BUILDING

CANOPY

USTs

FORMER UST PIT

PUMP ISLAND

FORMER DISPENSER ISLAND

TRASH ENCLOSURE

BUILDING

MOTEL

CONCRETE CURB, GUTTER,
AND WALK

RESTAURANT

HOPYARD ROAD

MEDIAN

S-8

PLANTER
SIDEWALK

PLANTER

PLANTER

S-7

FORMER DISPENSER ISLANDS

USTs

PLANTER

STATION BUILDING

V-1
V-2
V-3

S-3

S-1

S-6

PLANTER

PLANTER

DISPENSER ISLANDS

CAR WASH

S-4

SHELL STATION
5251 HOPYARD

PLANTER

LEGEND

- GP-2 ■ SOIL BORING LOCATION
- MW-1 ● MONITORING WELL LOCATION
- MW-3 ☒ DESTROYED MONITORING WELL LOCATION
- IW-1 ▣ REMEDIATION WELL LOCATION
- S-8 ● MONITORING WELL LOCATION (SHELL)
- V-1 ▲ VAPOR EXTRACTION WELL (SHELL)
- ☐ FORMER EXCAVATION LIMITS



figure 2
SITE PLAN
CHEVRON SERVICE STATION 9-0917
5280 HOPYARD ROAD
Pleasanton, California



ZONE 7 WATER AGENCY
100 NORTH CANYONS PARKWAY
LIVERMORE, CA 94551

WELL LOCATION MAP

SCALE: 1"= 750 ft

DATE: 10/16/07

5280 Hopyard Rd

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
| MW-4 | | | | | |
| 09/16/91 | 329.77 | 327.28 | 2.49 | 317.69 | 320.18 |
| 01/22/92 | 329.77 | 327.28 | 2.49 | 317.79 | 320.28 |
| 03/26/92 | 329.77 | 327.28 | 2.49 | 318.39 | 320.88 |
| 06/05/92 | 329.77 | 327.28 | 2.49 | 318.06 | 320.55 |
| 09/23/92 | 329.77 | 327.28 | 2.49 | 317.93 | 320.42 |
| 12/30/92 | 329.77 | 327.28 | 2.49 | 319.00 | 321.49 |
| 03/22/93 | 329.77 | 327.28 | 2.49 | 319.03 | 321.52 |
| 06/14/93 | 329.77 | 327.28 | 2.49 | 318.12 | 320.61 |
| 07/25/93 | 329.77 | 327.28 | 2.49 | 318.18 | 320.67 |
| 09/23/93 | 329.77 | 327.28 | 2.49 | 318.58 | 321.07 |
| 12/28/93 | 329.77 | 327.28 | 2.49 | 317.38 | 319.87 |
| 03/21/94 | 329.77 | 327.28 | 2.49 | 318.03 | 320.52 |
| 06/07/94 | 329.77 | 327.28 | 2.49 | 318.23 | 320.72 |
| 10/07/94 | 329.77 | 327.28 | 2.49 | 318.31 | 320.80 |
| 12/29/94 | 329.77 | 327.28 | 2.49 | 318.06 | 320.55 |
| 03/06/95 | 329.77 | 327.28 | 2.49 | 318.26 | 320.75 |
| 06/14/95 | 329.77 | 327.28 | 2.49 | 318.47 | 320.96 |
| 09/14/95 | 329.77 | 327.28 | 2.49 | 318.00 | 320.49 |
| 12/16/95 | 329.77 | 327.28 | 2.49 | 319.42 | 321.91 |
| 03/28/96 | 329.77 | 327.28 | 2.49 | 318.94 | 321.43 |
| 06/28/96 | 329.77 | 327.28 | 2.49 | 318.79 | 321.28 |
| 09/26/96 | 329.77 | 327.28 | 2.49 | 318.84 | 321.33 |
| 12/30/96 | 329.77 | 327.28 | 2.49 | 319.10 | 321.59 |
| 03/13/97 | 329.77 | 327.28 | 2.49 | 318.43 | 320.92 |
| 06/30/97 | 329.77 | 327.28 | 2.49 | 318.79 | 321.28 |
| 09/30/97 | 329.77 | 326.93 | 2.84 | 318.32 | 321.16 |
| 12/31/97 | 329.77 | 326.93 | 2.84 | 318.40 | 321.24 |
| 04/02/98 | 329.77 | 326.93 | 2.84 | 317.98 | 320.82 |
| 06/29/98 | 329.77 | 326.93 | 2.84 | 318.21 | 321.05 |
| 09/16/98 | 329.77 | 326.93 | 2.84 | 317.59 | 320.43 |
| 12/23/98 | 329.77 | 326.93 | 2.84 | 318.18 | 321.02 |
| 03/26/99 | 329.77 | 326.93 | 2.84 | 317.79 | 320.63 |
| 06/25/99 | 329.77 | 326.93 | 2.84 | 317.72 | 320.56 |
| 09/16/99 | 329.77 | 326.93 | 2.84 | 317.01 | 319.85 |
| 12/15/99 | 329.77 | 326.93 | 2.84 | 318.32 | 321.16 |
| 03/07/00 | 329.77 | 326.93 | 2.84 | 318.59 | 321.43 |
| 06/19/00 | 329.77 | 326.93 | 2.84 | 318.84 | 321.68 |
| 09/18/00 | 329.77 | 326.93 | 2.84 | 318.21 | 321.05 |
| 12/01/00 | 329.77 | 326.93 | 2.84 | 318.03 | 320.87 |
| 03/13/01 | 329.77 | 326.93 | 2.84 | 318.96 | 321.80 |
| 06/01/01 | 329.77 | 326.93 | 2.84 | 318.62 | 321.46 |
| 09/07/01 | 329.77 | 326.94 | 2.83 | 318.49 | 321.32 |
| 12/05/01 | 329.77 | 326.94 | 2.83 | 319.44 | 322.27 |
| 03/26/02 | 329.77 | 326.94 | 2.83 | 318.96 | 321.79 |
| 06/14/02 | 329.77 | 326.94 | 2.83 | 319.10 | 321.93 |
| 09/20/02 | 329.77 | 326.94 | 2.83 | 319.66 | 322.49 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft- msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|------------------------|---------------------|-----------------------|-----------------------|
| 12/12/02 | 329.77 | 326.94 | 2.83 | 320.18 | 323.01 |
| 03/07/03 | 329.77 | 326.94 | 2.83 | 320.78 | 323.61 |
| 06/06/03 | 329.77 | 326.94 | 2.83 | 321.33 | 324.16 |
| 09/05/03 | 329.77 | 326.94 | 2.83 | 319.29 | 322.12 |
| 12/15/03 | 329.77 | 326.94 | 2.83 | 319.63 | 322.46 |
| 03/15/04 | 329.77 | 326.94 | 2.83 | 319.02 | 321.85 |
| 06/14/04 | 329.77 | 326.94 | 2.83 | 318.69 | 321.52 |
| 09/02/04 | 329.77 | 326.94 | 2.83 | 319.55 | 322.38 |
| 11/30/04 | 329.77 | 326.94 | 2.83 | 319.66 | 322.49 |
| 03/11/05 | 329.77 | 326.94 | 2.83 | 321.03 | 323.86 |
| 06/29/05 | 329.77 | 326.94 | 2.83 | 321.67 | 324.50 |
| 09/14/05 | 329.77 | 326.94 | 2.83 | 321.24 | 324.07 |
| 12/06/05 | 329.77 | 326.94 | 2.83 | 320.81 | 323.64 |
| 03/10/06 | 329.77 | 326.94 | 2.83 | 319.59 | 322.42 |
| 06/06/06 | 329.77 | 326.94 | 2.83 | 319.09 | 321.92 |
| 09/05/06 | 329.77 | 326.94 | 2.83 | 319.00 | 321.83 |
| 12/01/06 | 329.77 | 326.94 | 2.83 | 318.88 | 321.71 |
| 02/26/07 | 329.77 | 326.94 | 2.83 | 319.05 | 321.88 |
| 06/01/07 | 329.77 | 326.94 | 2.83 | 319.07 | 321.90 |
| 08/30/07 | 329.77 | 326.94 | 2.83 | 319.05 | 321.88 |
| 11/26/07 | 329.77 | 326.94 | 2.83 | 319.25 | 322.08 |
| 02/07/08 | 329.77 | 326.94 | 2.83 | 320.20 | 323.03 |
| MW-5 | | | | | |
| 09/16/91 | 330.30 | 327.82 | 2.48 | 317.76 | 320.24 |
| 01/22/92 | 330.30 | 327.82 | 2.48 | 317.24 | 319.72 |
| 03/26/92 | 330.30 | 327.82 | 2.48 | 318.64 | 321.12 |
| 06/05/92 | 330.30 | 327.82 | 2.48 | 317.92 | 320.40 |
| 09/23/92 | 330.30 | 327.82 | 2.48 | 317.85 | 320.33 |
| 12/30/92 | 330.30 | 327.82 | 2.48 | 319.02 | 321.50 |
| 03/22/93 | 330.30 | 327.82 | 2.48 | 318.49 | 320.97 |
| 06/14/93 | 330.30 | 327.82 | 2.48 | 318.04 | 320.52 |
| 07/25/93 | 330.30 | 327.82 | 2.48 | 318.10 | 320.58 |
| 09/23/93 | 330.30 | 327.82 | 2.48 | 318.40 | 320.88 |
| 12/28/93 | 330.30 | 327.82 | 2.48 | 318.15 | 320.63 |
| 03/21/94 | 330.30 | 327.82 | 2.48 | 318.11 | 320.59 |
| 06/07/94 | 330.30 | 327.82 | 2.48 | 318.10 | 320.58 |
| 10/07/94 | 330.30 | 327.82 | 2.48 | 318.27 | 320.75 |
| 12/29/94 | 330.30 | 327.82 | 2.48 | 317.90 | 320.38 |
| 03/06/95 | 330.30 | 327.82 | 2.48 | 318.50 | 320.98 |
| 06/14/95 | 330.30 | 327.82 | 2.48 | 318.41 | 320.89 |
| 09/14/95 | 330.30 | 327.82 | 2.48 | 317.30 | 319.78 |
| 12/16/95 | 330.30 | 327.82 | 2.48 | 319.48 | 321.96 |
| 03/28/96 | 330.30 | 327.82 | 2.48 | 318.09 | 320.57 |
| 06/28/96 | 330.30 | 327.82 | 2.48 | 318.37 | 320.85 |
| 09/26/96 | 330.30 | 327.82 | 2.48 | 317.95 | 320.43 |
| 12/30/96 | 330.30 | 327.82 | 2.48 | 318.82 | 321.30 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 (Ft-msl) | TOC Previous TOC (Ft- msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|------------------------------|-------------------------------|------------------------|--------------------------|-----------------------|
| 03/13/97 | 330.30 | 327.82 | 2.48 | 318.33 | 320.81 |
| 06/30/97 | 330.30 | 327.82 | 2.48 | 318.19 | 320.67 |
| 10/01/97 | 330.30 | 327.82 | 2.48 | 318.08 | 320.56 |
| 12/31/97 | 330.30 | 327.82 | 2.48 | 318.34 | 320.82 |
| 04/02/98 | 330.30 | 327.82 | 2.48 | 317.44 | 319.92 |
| 06/29/98 | 330.30 | 327.82 | 2.48 | 317.79 | 320.27 |
| 09/16/98 | 330.30 | 327.82 | 2.48 | 318.84 | 321.32 |
| 12/23/98 | 330.30 | 327.82 | 2.48 | 318.00 | 320.48 |
| 03/26/99 | 330.30 | 327.82 | 2.48 | 318.26 | 320.74 |
| 06/25/99 | 330.30 | 327.82 | 2.48 | INACCESS | -- |
| 09/16/99 | 330.30 | 327.82 | 2.48 | 317.51 | 319.99 |
| 12/15/99 | 330.30 | 327.82 | 2.48 | 317.52 | 320.00 |
| 03/07/00 | 330.30 | 327.82 | 2.48 | 318.29 | 320.77 |
| 06/19/00 | 330.30 | 327.82 | 2.48 | 318.90 | 321.38 |
| 09/18/00 | 330.30 | 327.82 | 2.48 | 318.18 | 320.66 |
| 12/01/00 | 330.30 | 327.82 | 2.48 | 318.05 | 320.53 |
| 03/13/01 | 330.30 | 327.82 | 2.48 | 318.67 | 321.15 |
| 06/01/01 | 330.30 | 327.82 | 2.48 | 317.71 | 320.19 |
| 09/07/01 | 330.30 | 327.82 | 2.48 | 318.43 | 320.91 |
| 12/05/01 | 330.30 | 327.82 | 2.48 | 319.57 | 322.05 |
| 03/26/02 | 330.30 | 327.82 | 2.48 | 319.44 | 321.92 |
| 06/14/02 | 330.30 | 327.82 | 2.48 | 320.18 | 322.66 |
| 09/20/02 | 330.30 | 327.82 | 2.48 | 320.45 | 322.93 |
| 12/12/02 | 330.30 | 327.82 | 2.48 | 320.33 | 322.81 |
| 03/07/03 | 330.30 | 327.82 | 2.48 | 320.38 | 322.86 |
| 06/06/03 | 330.30 | 327.82 | 2.48 | 321.10 | 323.58 |
| 09/05/03 | 330.30 | 327.82 | 2.48 | 318.90 | 321.38 |
| 12/15/03 | 330.30 | 327.82 | 2.48 | 319.47 | 321.95 |
| 03/15/04 | 330.30 | 327.82 | 2.48 | 318.80 | 321.28 |
| 06/14/04 | 330.30 | 327.82 | 2.48 | 319.45 | 321.93 |
| 09/02/04 | 330.30 | 327.82 | 2.48 | 319.92 | 322.40 |
| 11/30/04 | 330.30 | 327.82 | 2.48 | 319.62 | 322.10 |
| 03/11/05 | 330.30 | 327.82 | 2.48 | 320.41 | 322.89 |
| 06/29/05 | 330.30 | 327.82 | 2.48 | 320.07 | 322.55 |
| 09/14/05 | 330.30 | 327.82 | 2.48 | 320.26 | 322.74 |
| 12/06/05 | 330.30 | 327.82 | 2.48 | 320.09 | 322.57 |
| 03/10/06 | 330.30 | 327.82 | 2.48 | 319.46 | 321.94 |
| 06/06/06 | 330.30 | 327.82 | 2.48 | 318.82 | 321.30 |
| 09/05/06 | 330.30 | 327.82 | 2.48 | 319.06 | 321.54 |
| 12/01/06 | 330.30 | 327.82 | 2.48 | 319.02 | 321.50 |
| 02/26/07 | 330.30 | 327.82 | 2.48 | 319.98 | 322.46 |
| 06/01/07 | 330.30 | 327.82 | 2.48 | 318.78 | 321.26 |
| 08/30/07 | 330.30 | 327.82 | 2.48 | 318.31 | 320.79 |
| 11/26/07 | 330.30 | 327.82 | 2.48 | 318.65 | 321.13 |
| 02/07/08 | 330.30 | 327.82 | 2.48 | 319.06 | 321.54 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
| MW-6 | | | | | |
| 09/16/91 | 330.74 | 328.48 | -2.26 | 317.87 | 320.13 |
| 01/22/92 | 330.74 | 328.48 | -2.26 | 318.18 | 320.44 |
| 03/26/92 | 330.74 | 328.48 | -2.26 | 318.98 | 321.24 |
| 06/05/92 | 330.74 | 328.48 | -2.26 | 318.14 | 320.40 |
| 09/23/92 | 330.74 | 328.48 | -2.26 | 317.92 | 320.18 |
| 12/30/92 | 330.74 | 328.48 | -2.26 | 318.71 | 320.97 |
| 03/22/93 | 330.74 | 328.48 | -2.26 | 319.21 | 321.47 |
| 06/14/93 | 330.74 | 328.48 | -2.26 | 318.33 | 320.59 |
| 07/25/93 | 330.74 | 328.48 | -2.26 | 318.23 | 320.49 |
| 09/23/93 | 330.74 | 328.48 | -2.26 | 318.31 | 320.57 |
| 12/28/93 | 330.74 | 328.48 | -2.26 | 317.96 | 320.22 |
| 03/21/94 | 330.74 | 328.48 | -2.26 | 318.20 | 320.46 |
| 06/07/94 | 330.74 | 328.48 | -2.26 | 318.20 | 320.46 |
| 10/07/94 | 330.74 | 328.48 | -2.26 | 318.06 | 320.32 |
| 12/29/94 | 330.74 | 328.48 | -2.26 | 318.23 | 320.49 |
| 03/06/95 | 330.74 | 328.48 | -2.26 | 319.12 | 321.38 |
| 06/14/95 | 330.74 | 328.48 | -2.26 | 318.37 | 320.63 |
| 09/14/95 | 330.74 | 328.48 | -2.26 | 318.21 | 320.47 |
| 12/16/95 | 330.74 | 328.48 | -2.26 | 319.21 | 321.47 |
| 03/28/96 | 330.74 | 328.48 | -2.26 | 319.13 | 321.39 |
| 06/28/96 | 330.74 | 328.48 | -2.26 | 318.70 | 320.96 |
| 09/26/96 | 330.74 | 328.48 | -2.26 | 319.02 | 321.28 |
| 12/30/96 | 330.74 | 328.48 | -2.26 | 319.45 | 321.71 |
| 03/13/97 | 330.74 | 328.48 | -2.26 | 318.76 | 321.02 |
| 06/30/97 | 330.74 | 328.48 | -2.26 | 318.81 | 321.07 |
| 10/01/97 | 330.74 | 327.82 | -2.92 | 318.53 | 321.45 |
| 12/31/97 | 330.74 | 327.82 | -2.92 | 317.61 | 320.53 |
| 04/02/98 | 330.74 | 327.82 | -2.92 | 318.86 | 321.78 |
| 06/29/98 | 330.74 | 327.82 | -2.92 | 318.45 | 321.37 |
| 09/16/98 | 330.74 | 327.82 | -2.92 | 318.60 | 321.52 |
| 12/23/98 | 330.74 | 327.82 | -2.92 | 317.51 | 320.43 |
| 03/26/99 | 330.74 | 327.82 | -2.92 | 317.91 | 320.83 |
| 06/25/99 | 330.74 | 327.82 | -2.92 | 317.50 | 320.42 |
| 09/16/99 | 330.74 | 327.82 | -2.92 | 317.28 | 320.20 |
| 12/15/99 | 330.74 | 327.82 | -2.92 | 319.33 | 322.25 |
| 03/07/00 | 330.74 | 327.82 | -2.92 | 318.60 | 321.52 |
| 06/19/00 | 330.74 | 327.82 | -2.92 | 318.42 | 321.34 |
| 09/18/00 | 330.74 | 327.82 | -2.92 | 317.74 | 320.66 |
| 12/01/00 | 330.74 | 327.82 | -2.92 | 317.56 | 320.48 |
| 03/13/01 | 330.74 | 327.82 | -2.92 | 318.53 | 321.45 |
| 06/01/01 | 330.74 | 327.82 | -2.92 | 317.24 | 320.16 |
| 09/07/01 | 330.74 | 327.83 | -2.91 | 317.92 | 320.83 |
| 12/05/01 | 330.74 | 327.83 | -2.91 | 319.02 | 321.93 |
| 03/26/02 | 330.74 | 327.83 | -2.91 | 318.90 | 321.81 |
| 06/14/02 | 330.74 | 327.83 | -2.91 | 318.97 | 321.88 |
| 09/20/02 | 330.74 | 327.83 | -2.91 | 319.83 | 322.74 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 (Ft-msl) | TOC Previous (msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|------------------------------|-----------------------|------------------------|--------------------------|-----------------------|
| 12/12/02 | 330.74 | 327.83 | -2.91 | 319.83 | 322.74 |
| 03/07/03 | 330.74 | 327.83 | -2.91 | 320.05 | 322.96 |
| 06/06/03 | 330.74 | 327.83 | -2.91 | 320.79 | 323.70 |
| 09/05/03 | 330.74 | 327.83 | -2.91 | 318.79 | 321.70 |
| 12/15/03 | 330.74 | 327.83 | -2.91 | 319.24 | 322.15 |
| 03/15/04 | 330.74 | 327.83 | -2.91 | 318.92 | 321.83 |
| 06/14/04 | 330.74 | 327.83 | -2.91 | 318.62 | 321.53 |
| 09/02/04 | 330.74 | 327.83 | -2.91 | 319.14 | 322.05 |
| 11/30/04 | 330.74 | 327.83 | -2.91 | 319.28 | 322.19 |
| 03/11/05 | 330.74 | 327.83 | -2.91 | 320.57 | 323.48 |
| 06/29/05 | 330.74 | 327.83 | -2.91 | 320.72 | 323.63 |
| 09/14/05 | 330.74 | 327.83 | -2.91 | 320.51 | 323.42 |
| 12/06/05 | 330.74 | 327.83 | -2.91 | 320.21 | 323.12 |
| 03/10/06 | 330.74 | 327.83 | -2.91 | 319.40 | 322.31 |
| 06/06/06 | 330.74 | 327.83 | -2.91 | 318.59 | 321.50 |
| 09/05/06 | 330.74 | 327.83 | -2.91 | 318.47 | 321.38 |
| 12/01/06 | 330.74 | 327.83 | -2.91 | 318.22 | 321.13 |
| 02/26/07 | 330.74 | 327.83 | -2.91 | 318.97 | 321.88 |
| 06/01/07 | 330.74 | 327.83 | -2.91 | 318.60 | 321.51 |
| 08/30/07 | 330.74 | 327.83 | -2.91 | 318.41 | 321.32 |
| 11/26/07 | 330.74 | 327.83 | -2.91 | 318.45 | 321.36 |
| 02/07/08 | 330.74 | -- | -- | -- | -- |
| MW-7 | | | | | |
| 06/17/97 | 329.50 | 326.37 | -3.13 | 318.32 | 321.45 |
| 09/30/97 | 329.50 | 326.37 | -3.13 | 318.78 | 321.91 |
| 12/31/97 | 329.50 | 326.37 | -3.13 | 318.49 | 321.62 |
| 04/02/98 | 329.50 | 326.37 | -3.13 | 319.06 | 322.19 |
| 06/29/98 | 329.50 | 326.37 | -3.13 | 318.39 | 321.52 |
| 09/16/98 | 329.50 | 326.37 | -3.13 | 318.55 | 321.68 |
| 12/23/98 | 329.50 | 326.37 | -3.13 | 318.37 | 321.50 |
| 03/26/99 | 329.50 | 326.37 | -3.13 | 318.43 | 321.56 |
| 06/25/99 | 329.50 | 326.37 | -3.13 | 318.65 | 321.78 |
| 09/16/99 | 329.50 | 326.37 | -3.13 | 317.61 | 320.74 |
| 12/15/99 | 329.50 | 326.37 | -3.13 | 318.42 | 321.55 |
| 03/07/00 | 329.50 | 326.37 | -3.13 | 319.38 | 322.51 |
| 06/19/00 | 329.50 | 326.37 | -3.13 | 318.64 | 321.77 |
| 09/18/00 | 329.50 | 326.37 | -3.13 | 318.21 | 321.34 |
| 12/01/00 | 329.50 | 326.37 | -3.13 | 317.06 | 320.19 |
| 03/13/01 | 329.50 | 326.37 | -3.13 | 318.65 | 321.78 |
| 06/01/01 | 329.50 | 326.37 | -3.13 | 318.40 | 321.53 |
| 09/07/01 | 329.50 | 326.37 | -3.13 | 318.61 | 321.74 |
| 12/05/01 | 329.50 | 326.37 | -3.13 | 318.99 | 322.12 |
| 03/26/02 | 329.50 | 326.37 | -3.13 | 318.96 | 322.09 |
| 06/14/02 | 329.50 | 326.37 | -3.13 | 318.85 | 321.98 |
| 09/20/02 | 329.50 | 326.37 | -3.13 | 319.65 | 322.78 |
| 12/12/02 | 329.50 | 326.37 | -3.13 | 319.18 | 322.31 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
| 03/07/03 | 329.50 | 326.37 | -3.13 | 319.48 | 322.61 |
| 06/06/03 | 329.50 | 326.37 | -3.13 | 319.62 | 322.75 |
| 09/05/03 | 329.50 | 326.37 | -3.13 | 318.75 | 321.88 |
| 12/15/03 | 329.50 | 326.37 | -3.13 | 319.16 | 322.29 |
| 03/15/04 | 329.50 | 326.37 | -3.13 | 318.48 | 321.61 |
| 06/14/04 | 329.50 | 326.37 | -3.13 | 318.56 | 321.69 |
| 09/02/04 | 329.50 | 326.37 | -3.13 | 318.59 | 321.72 |
| 11/30/04 | 329.50 | 326.37 | -3.13 | 318.67 | 321.80 |
| 03/11/05 | 329.50 | 326.37 | -3.13 | 320.14 | 323.27 |
| 06/29/05 | 329.50 | 326.37 | -3.13 | 319.84 | 322.97 |
| 09/14/05 | 329.50 | 326.37 | -3.13 | 319.69 | 322.82 |
| 12/06/05 | 329.50 | 326.37 | -3.13 | 319.34 | 322.47 |
| 03/10/06 | 329.50 | 326.37 | -3.13 | 319.27 | 322.40 |
| 06/06/06 | 329.50 | 326.37 | -3.13 | 318.60 | 321.73 |
| 09/05/06 | 329.50 | 326.37 | -3.13 | 318.55 | 321.68 |
| 12/01/06 | 329.50 | 326.37 | -3.13 | 318.32 | 321.45 |
| 02/26/07 | 329.50 | 326.37 | -3.13 | 318.89 | 322.02 |
| 06/01/07 | 329.50 | 326.37 | -3.13 | 318.74 | 321.87 |
| 08/30/07 | 329.50 | 326.37 | -3.13 | 318.44 | 321.57 |
| 11/26/07 | 329.50 | 326.37 | -3.13 | 318.44 | 321.57 |
| 02/07/08 | 329.50 | 326.37 | -3.13 | 319.76 | 322.89 |
| MW-8 | | | | | |
| 06/17/97 | 329.01 | 325.89 | -3.12 | 318.15 | 321.27 |
| 09/30/97 | 329.01 | 325.89 | -3.12 | 318.16 | 321.28 |
| 12/31/97 | 329.01 | 325.89 | -3.12 | 318.27 | 321.39 |
| 04/02/98 | 329.01 | 325.89 | -3.12 | 318.48 | 321.60 |
| 06/29/98 | 329.01 | 325.89 | -3.12 | 317.98 | 321.10 |
| 09/16/98 | 329.01 | 325.89 | -3.12 | 318.42 | 321.54 |
| 12/23/98 | 329.01 | 325.89 | -3.12 | 318.28 | 321.40 |
| 03/26/99 | 329.01 | 325.89 | -3.12 | 316.81 | 319.93 |
| 06/25/99 | 329.01 | 325.89 | -3.12 | 315.94 | 319.06 |
| 09/16/99 | 329.01 | 325.89 | -3.12 | 316.00 | 319.12 |
| 12/15/99 | 329.01 | 325.89 | -3.12 | 317.14 | 320.26 |
| 03/07/00 | 329.01 | 325.89 | -3.12 | 317.11 | 320.23 |
| 06/19/00 | 329.01 | 325.89 | -3.12 | 318.34 | 321.46 |
| 09/18/00 | 329.01 | 325.89 | -3.12 | 317.64 | 320.76 |
| 12/01/00 | 329.01 | 325.89 | -3.12 | 317.45 | 320.57 |
| 03/13/01 | 329.01 | 325.89 | -3.12 | 318.32 | 321.44 |
| 06/01/01 | 329.01 | 325.89 | -3.12 | 317.97 | 321.09 |
| 09/07/01 | 329.01 | 325.89 | -3.12 | 318.11 | 321.23 |
| 12/05/01 | 329.01 | 325.89 | -3.12 | 318.57 | 321.69 |
| 03/26/02 | 329.01 | 325.89 | -3.12 | 318.18 | 321.30 |
| 06/14/02 | 329.01 | 325.89 | -3.12 | 318.24 | 321.36 |
| 09/20/02 | 329.01 | 325.89 | -3.12 | 318.53 | 321.65 |
| 12/12/02 | 329.01 | 325.89 | -3.12 | 319.00 | 322.12 |
| 03/07/03 | 329.01 | 325.89 | -3.12 | 318.94 | 322.06 |
| 06/06/03 | 329.01 | 325.89 | -3.12 | 319.09 | 322.21 |
| 09/05/03 | 329.01 | 325.89 | -3.12 | 317.24 | 320.36 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
| 12/15/03 | 329.01 | 325.89 | -3.12 | 317.62 | 320.74 |
| 03/15/04 | 329.01 | 325.89 | -3.12 | 318.64 | 321.76 |
| 06/14/04 | 329.01 | 325.89 | -3.12 | 318.03 | 321.15 |
| 09/02/04 | 329.01 | 325.89 | -3.12 | 318.05 | 321.17 |
| 11/30/04 | 329.01 | 325.89 | -3.12 | 318.16 | 321.28 |
| 03/11/05 | 329.01 | 325.89 | -3.12 | 319.46 | 322.58 |
| 06/29/05 | 329.01 | 325.89 | -3.12 | 317.50 | 320.62 |
| 09/14/05 | 329.01 | 325.89 | -3.12 | 318.58 | 321.70 |
| 12/06/05 | 329.01 | 325.89 | -3.12 | 318.78 | 321.90 |
| 03/10/06 | 329.01 | 325.89 | -3.12 | 318.77 | 321.89 |
| 06/06/06 | 329.01 | 325.89 | -3.12 | 318.45 | 321.57 |
| 09/05/06 | 329.01 | 325.89 | -3.12 | 318.08 | 321.20 |
| 12/01/06 | 329.01 | 325.89 | -3.12 | 318.55 | 321.67 |
| 02/26/07 | 329.01 | 325.89 | -3.12 | 318.70 | 321.82 |
| 06/01/07 | 329.01 | 325.89 | -3.12 | 318.38 | 321.50 |
| 08/30/07 | 329.01 | 325.89 | -3.12 | 317.92 | 321.04 |
| 11/26/07 | 329.01 | 325.89 | -3.12 | 318.24 | 321.36 |
| 02/07/08 | 329.01 | 325.89 | -3.12 | 319.06 | 322.18 |
| MW-9 | | | | | |
| 06/20/97 | 328.85 | 325.73 | -3.12 | 317.88 | 321.00 |
| 10/01/97 | 328.85 | 325.73 | -3.12 | 318.10 | 321.22 |
| 12/31/97 | 328.85 | 325.73 | -3.12 | 318.53 | 321.65 |
| 04/02/98 | 328.85 | 325.73 | -3.12 | 318.52 | 321.64 |
| 06/29/98 | 328.85 | 325.73 | -3.12 | 315.31 | 318.43 |
| 09/16/98 | 328.85 | 325.73 | -3.12 | 315.99 | 319.11 |
| 12/23/98 | 328.85 | 325.73 | -3.12 | 317.59 | 320.71 |
| 03/26/99 | 328.85 | 325.73 | -3.12 | 317.62 | 320.74 |
| 06/25/99 | 328.85 | 325.73 | -3.12 | 318.28 | 321.40 |
| 09/16/99 | 328.85 | 325.73 | -3.12 | 316.87 | 319.99 |
| 12/15/99 | 328.85 | 325.73 | -3.12 | 317.93 | 321.05 |
| 03/07/00 | 328.85 | 325.73 | -3.12 | 318.37 | 321.49 |
| 06/19/00 | 328.85 | 325.73 | -3.12 | 318.39 | 321.51 |
| 09/18/00 | 328.85 | 325.73 | -3.12 | 317.61 | 320.73 |
| 12/01/00 | 328.85 | 325.73 | -3.12 | 317.46 | 320.58 |
| 03/13/01 | 328.85 | 325.73 | -3.12 | 318.34 | 321.46 |
| 06/01/01 | 328.85 | 325.73 | -3.12 | 317.92 | 321.04 |
| 09/07/01 | 328.85 | 325.73 | -3.12 | 317.55 | 320.67 |
| 12/05/01 | 328.85 | 325.73 | -3.12 | 318.58 | 321.70 |
| 03/26/02 | 328.85 | 325.73 | -3.12 | 318.47 | 321.59 |
| 06/14/02 | 328.85 | 325.73 | -3.12 | 318.62 | 321.74 |
| 09/20/02 | 328.85 | 325.73 | -3.12 | 318.74 | 321.86 |
| 12/12/02 | 328.85 | 325.73 | -3.12 | 318.92 | 322.04 |
| 03/07/03 | 328.85 | 325.73 | -3.12 | 318.95 | 322.07 |
| 06/06/03 | 328.85 | 325.73 | -3.12 | 319.09 | 322.21 |
| 09/05/03 | 328.85 | 325.73 | -3.12 | 318.30 | 321.42 |
| 12/15/03 | 328.85 | 325.73 | -3.12 | 318.65 | 321.77 |
| 03/15/04 | 328.85 | 325.73 | -3.12 | 318.43 | 321.55 |
| 06/14/04 | 328.85 | 325.73 | -3.12 | 318.28 | 321.40 |
| 09/02/04 | 328.85 | 325.73 | -3.12 | 318.48 | 321.60 |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
| 11/30/04 | 328.85 | 325.73 | -3.12 | 318.62 | 321.74 |
| 03/11/05 | 328.85 | 325.73 | -3.12 | 319.44 | 322.56 |
| 06/29/05 | 328.85 | 325.73 | -3.12 | 319.11 | 322.23 |
| 09/14/05 | 328.85 | 325.73 | -3.12 | INACCESS | -- |
| 12/06/05 | 328.85 | 325.73 | -3.12 | 318.75 | 321.87 |
| 03/10/06 | 328.85 | 325.73 | -3.12 | 318.72 | 321.84 |
| 06/06/06 | 328.85 | 325.73 | -3.12 | 318.27 | 321.39 |
| 09/05/06 | 328.85 | 325.73 | -3.12 | 318.24 | 321.36 |
| 12/01/06 | 328.85 | 325.73 | -3.12 | 318.11 | 321.23 |
| 02/26/07 | 328.85 | 325.73 | -3.12 | 318.44 | 321.56 |
| 06/01/07 | 328.85 | 325.73 | -3.12 | 318.22 | 321.34 |
| 08/30/07 | 328.85 | 325.73 | -3.12 | 318.06 | 321.18 |
| 11/26/07 | 328.85 | 325.73 | -3.12 | 318.02 | 321.14 |
| 02/07/08 | 328.85 | 325.73 | -3.12 | 318.64 | 321.76 |
| MW-1 | | | | | |
| 07/12/89 | -- | 326.48 | -- | -- | -- |
| 08/02/89 | -- | 326.48 | -- | 318.38 | -- |
| 10/24/89 | -- | 326.48 | -- | 318.97 | -- |
| 03/12/90 | -- | 326.48 | -- | 318.07 | -- |
| 03/26/90 | -- | 326.48 | -- | 318.34 | -- |
| 06/22/90 | -- | 326.48 | -- | 318.17 | -- |
| 09/11/90 | -- | 326.48 | -- | 318.35 | -- |
| 04/18/91 | -- | 326.48 | -- | 318.34 | -- |
| ABANDONED | | | | | |
| MW-2 | | | | | |
| 07/17/89 | -- | 327.53 | -- | -- | -- |
| 08/02/89 | -- | 327.53 | -- | 318.48 | -- |
| 10/24/89 | -- | 327.53 | -- | 318.29 | -- |
| 03/12/90 | -- | 327.53 | -- | 317.46 | -- |
| 03/26/90 | -- | 327.53 | -- | 317.48 | -- |
| 06/22/90 | -- | 327.53 | -- | 317.48 | -- |
| 09/11/90 | -- | 327.53 | -- | 317.85 | -- |
| 04/18/91 | -- | 327.53 | -- | 318.30 | -- |
| ABANDONED | | | | | |
| MW-3 | | | | | |
| 07/17/89 | -- | 326.47 | -- | -- | -- |
| 08/02/89 | -- | 326.47 | -- | 318.32 | -- |
| 10/24/89 | -- | 326.47 | -- | 318.88 | -- |
| 03/12/90 | -- | 326.47 | -- | 318.00 | -- |
| 03/26/90 | -- | 326.47 | -- | 317.64 | -- |
| 06/22/90 | -- | 326.47 | -- | 317.64 | -- |
| 09/11/90 | -- | 326.47 | -- | 318.06 | -- |
| 04/18/91 | -- | 326.47 | -- | 318.49 | -- |
| ABANDONED | | | | | |

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Adjusted Groundwater Elevation Data - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Well ID/ Date | Resurvey 4/10/08 TOC (Ft-msl) | Previous TOC (Ft-msl) | TOC Difference (ft) | Previous GWE (ft-msl) | Adjusted GWE (ft-msl) |
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|
|---------------|-------------------------------|-----------------------|---------------------|-----------------------|-----------------------|

Abbreviations/Notes:

TOC = Top of Casing

GWE = Groundwater Elevation

Ft-msl = Feet Above Mean Sea Level

Inaccess = Inaccessible due to parked vehicle or other obstacles

-- = not measured or applicable

CONESTOGA-ROVERS & ASSOCIATES

Table 2. Groundwater Flow Directions - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Date | Adjusted Groundwater Flow Direction (azimuthal degrees) |
|----------|---|
| 07/12/89 | * |
| 08/02/89 | 241 |
| 10/24/89 | 206 |
| 03/12/90 | 204 |
| 03/26/90 | 183 |
| 06/22/90 | 184 |
| 09/11/90 | 186 |
| 04/18/91 | 280 |
| 09/16/91 | 230 |
| 01/22/92 | 240 |
| 03/26/92 | 180 |
| 06/05/92 | 157 |
| 09/23/92 | 197 |
| 12/30/92 | 212 |
| 03/22/93 | 254 |
| 06/14/93 | 267 |
| 07/25/93 | 191 |
| 09/23/93 | 196 |
| 12/28/93 | 296 |
| 03/21/94 | 230 |
| 06/07/94 | 190 |
| 10/07/94 | 208 |
| 12/29/94 | 100 |
| 03/06/95 | 19 |
| 06/14/95 | 202 |
| 09/14/95 | 102 |
| 12/16/95 | 215 |
| 03/28/96 | 72 |
| 06/28/96 | 130 |
| 09/26/96 | 78 |
| 12/30/96 | 55 |
| 03/13/97 | 49 |
| 06/30/97 | 40 |
| 09/30/97 | 41 |
| 12/31/97 | Variable |
| 04/02/98 | 38 |
| 06/29/98 | 121 |
| 09/16/98 | Variable |
| 12/23/98 | 50 |
| 03/26/99 | 165 |
| 06/25/99 | 179 |
| 09/16/99 | Variable |
| 12/15/99 | Variable |
| 03/07/00 | 257 |
| 06/19/00 | 52 |

CONESTOGA-ROVERS & ASSOCIATES

Table 2. Groundwater Flow Directions - Chevron Station 9-0917, 5280 Hopyard Road, Pleasanton, California

| Date | Adjusted Groundwater Flow Direction (azimuthal degrees) |
|----------|---|
| 09/18/00 | 30 |
| 12/01/00 | 250 |
| 03/13/01 | 288 |
| 06/01/01 | 335 |
| 09/07/01 | 282 |
| 12/05/01 | 255 |
| 03/26/02 | 158 |
| 06/14/02 | 246 |
| 09/20/02 | 254 |
| 12/12/02 | 261 |
| 03/07/03 | 293 |
| 06/06/03 | 290 |
| 09/05/03 | 265 |
| 12/15/03 | 172 |
| 03/15/04 | 342 |
| 06/14/04 | 242 |
| 09/02/04 | 240 |
| 11/30/04 | 265 |
| 03/11/05 | 122 |
| 06/29/05 | 140 |
| 09/14/05 | 136 |
| 12/06/05 | 152 |
| 03/10/06 | 112 |
| 06/06/06 | 121 |
| 09/05/06 | 180 |
| 12/01/06 | Variable |
| 02/26/07 | 192 |
| 06/01/07 | 114 |
| 08/30/07 | 107 |
| 11/26/07 | 130 |
| 02/07/08 | 84 |

Abbreviations/Notes:

* = No elevation data available, well not surveyed at time of sampling

Variable = groundwater flow direction varies across the site



**CONESTOGA-ROVERS
& ASSOCIATES**

ATTACHMENT A
ACEHS Correspondence
January 8, 2008

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 8, 2008

Ms. Olivia Skance
Chevron Environmental Management Company
6001 Bollinger Canyon Road, K-2256
San Ramon, CA 94583-2324

Lamorinda Development and Investment
89 Davis Road, Suite 160
Orinda, CA 94563

C & H Development Company
43 Panoramic Way
Walnut Creek, CA 94595

Subject: Fuel Leak Case No. RO0000439 and Geotracker Global ID T0600100345, Chevron #9-0917, 5280 Hopyard Road, Pleasanton, CA 94566

Dear Mr. Sinha:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted document entitled, "Response to Technical Comments and Workplan for Installation of Vapor Probes," dated December 6, 2007. The "Response to Technical Comments and Workplan for Installation of Vapor Probes," provides responses to technical comments contained in our October 3, 2007 correspondence and proposes the installation of two soil vapor probes adjacent to the station building. As discussed in technical comment 1 below, we request the installation and sampling of three additional soil vapor probes. Installation and sampling of the soil vapor probes may be implemented provided that the technical comments below are addressed and incorporated during the proposed field investigation. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan or technical comments below is proposed.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Soil Vapor Probes.** The "Response to Technical Comments and Workplan for Installation of Vapor Probes," proposes the installation of two soil vapor probes adjacent to the existing service station building. Although the two proposed soil vapor probe locations address the potential for indoor vapor intrusion for the existing facility, the potential for indoor vapor intrusion must be evaluated for potential future land use as well. Therefore, we request that three additional soil probes be installed at the locations shown on Attachment 1. Please present results from the soil vapor probe installation and sampling in the Soil Vapor Investigation Report requested below.

Ms. Olivia Skance
Lamorinda Development and Investment
C & H Development Company
RO0000439
January 8, 2008
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2. **Well Survey.** Thank you for submitting the Well Location Map and table of well information. Unfortunately, the scanned version of the Well Location Map is largely unreadable. We request that you re-submit a colored version of the Well Location Map with higher resolution. Please re-submit the Well Location Map in the Soil Vapor Investigation Report requested below.

3. **Hydraulic Gradient.** The "Response to Technical Comments and Workplan for Installation of Vapor Probes," presents a rose diagram for groundwater flow using water level elevations from 2000 to 2007. Based on these data, the workplan contends that no additional monitoring wells are needed in the north or northeast portion of the site to monitor natural attenuation. It is not clear that the rose diagram for the period from 2000 to 2007 adequately represents the hydraulic gradient over the time period following fuel releases at the site. Groundwater contamination was initially detected at the site in 1989. Attachment 2 is a table of hydraulic gradient directions and a rose diagram for the period from August 1989 to June 1997. As shown on Attachment 2, the hydraulic gradient direction for the site varied from south to northeast.

Upon further review of the water level elevation data used in previous water level elevation contour maps, it appears there are discrepancies in the top of casing elevations (TOC) used for wells MW-4 and MW-6. On June 17, 1997, Mid Coast Engineer re-surveyed the existing wells at the site. The TOC elevations reported on June 17, 1997 were 0.35 to 0.66 feet lower than the top of casing elevations previously reported for wells MW-4 and MW-6. However, well MW-5 was not re-surveyed because Mid Coast Engineers was not able to locate well MW-5. As a result, the groundwater elevation contour maps and estimates of hydraulic gradient prepared after June 1997 are based on the 1997 revised TOC elevations for wells MW-4 and MW-6 but the original 1989 TOC casing elevation has been retained for well MW-5. Because the TOC elevations measured in June 1997 for wells MW-4 and MW-6 were significantly different than the TOC elevations used from 1989 to 1997, it is likely that the TOC elevation for well MW-5 may be different also. Therefore, we request that you re-survey wells MW-4, MW-5, and MW-6. If the TOC elevations for wells MW-4 and MW-6 are consistent with the June 1997 TOC elevations, re-surveying of wells MW-7 through MW-9 is not required. However, if the TOC elevations for wells MW-4 and MW-6 differ from the TOC elevations currently used by more than 0.05 feet, we request that you re-survey wells MW-7 through MW-9 also. Please present the results of the re-surveying in the Soil Vapor Investigation Report requested below. If the TOC elevations for any well differ by more than 0.05 feet from previous elevations used to estimate hydraulic gradient for the site, please make all necessary revisions/corrections to data tables and prepare a revised rose diagram that accurately shows hydraulic gradient from 1989 to present.

4. **Addition of Oxygen Release Compound to Wells MW-5 and MW-6.** We concur that the effects of oxygen release compound (ORC) added to wells MW-5 and MW-6 on March 26, 1999 have diminished over time and that the ORC is not significantly affecting dissolved petroleum hydrocarbons concentrations at this time.

Ms. Olivia Skance
Lamorinda Development and Investment
C & H Development Company
RO0000439
January 8, 2008
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TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **May 22, 2008** – Soil Vapor Investigation Report
- **30 days following the end of each quarter** – Quarterly Monitoring Reports

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic%20reporting)).

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.

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Lamorinda Development and Investment
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PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

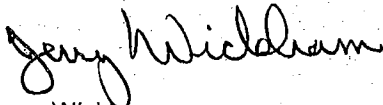
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Attachment 1: Additional Soil Vapor Probes
Attachment 2: Groundwater Flow Direction and Gradient

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway
Livermore, CA 94551

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C & H Development Company
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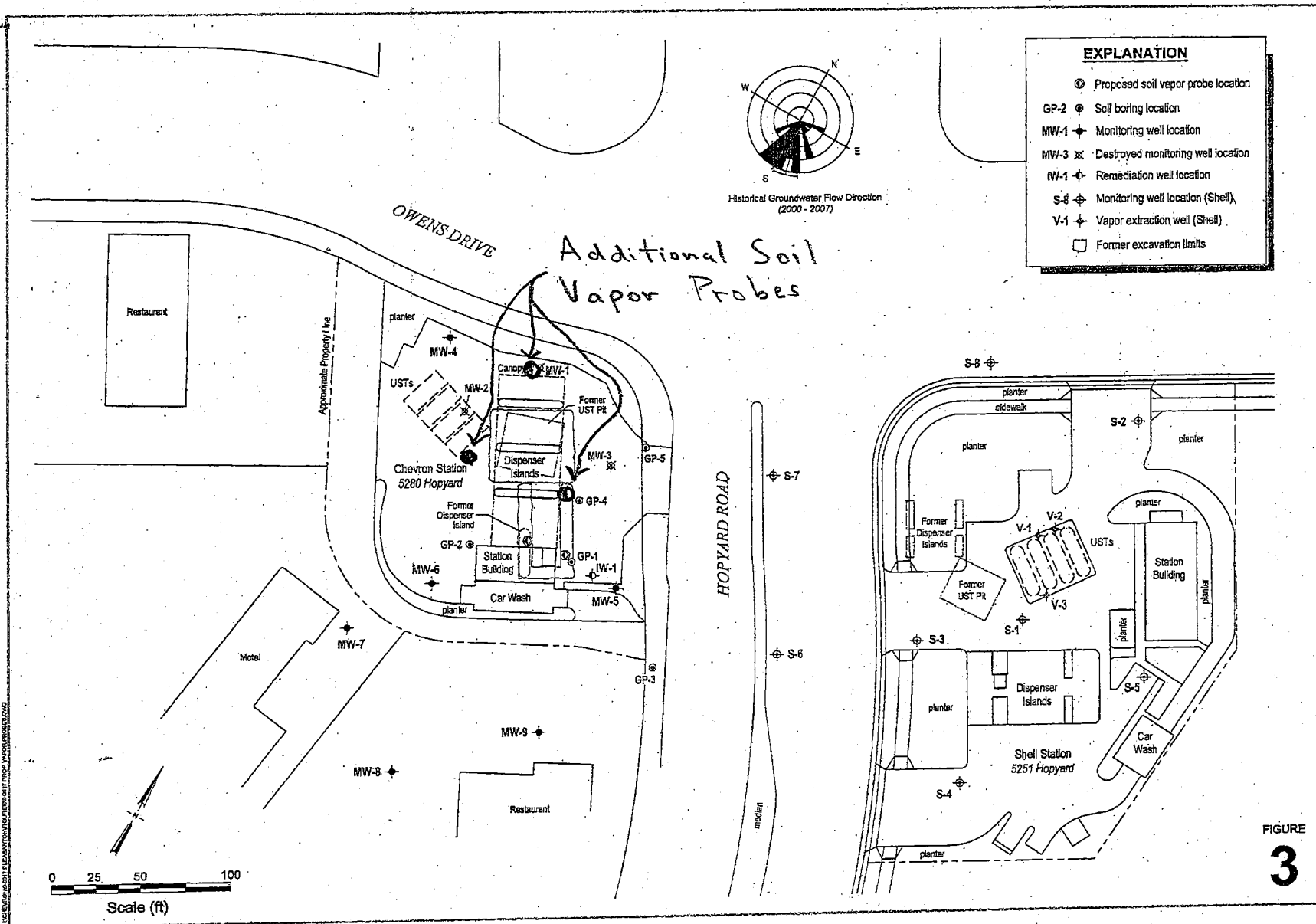
Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Bill Hurtido, Accor North America, 4001 International Parkway, Carrollton, TX 75007

Charlotte Evans, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A,
Emeryville, CA 94608

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Attachment 1: Additional Soil Vapor Probes



Proposed Soil Vapor Probe Locations



CONESTOGA ROYERS & ASSOCIATES

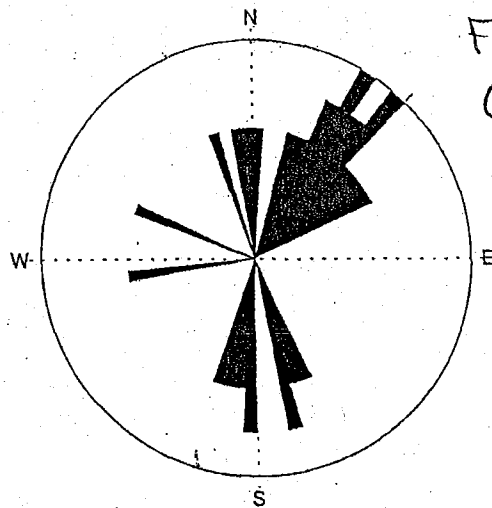
Chevron Service Station 9-0917

5280 Hopyard Road
Pleasanton, California

Attachment 2

Table 3
 Groundwater Flow Direction and Gradient
 Chevron Service Station 9-0917
 5280 Hopyard Road
 Pleasanton, California

| Date | Flow Direction (degrees) | Gradient |
|----------|--------------------------|----------|
| 8/2/89 | 37 | 0.002 |
| 10/24/89 | 184 | 0.015 |
| 3/12/90 | 180 | 0.014 |
| 3/26/90 | 158 | 0.2 |
| 9/11/90 | 166 | 0.011 |
| 4/18/91 | 263 | 0.003 |
| 9/16/91 | 342 | 0.001 |
| 1/22/92 | 31 | 0.009 |
| 3/26/92 | 355 | 0.004 |
| 6/5/92 | 33 | 0.002 |
| 9/23/92 | 54 | 0.001 |
| 12/30/92 | 193 | 0.004 |
| 3/22/93 | 42 | 0.007 |
| 6/14/93 | 21 | 0.003 |
| 7/25/93 | 32 | 0.001 |
| 9/23/93 | 161 | 0.002 |
| 12/28/93 | 292 | 0.005 |
| 3/21/94 | 354 | 0.001 |
| 6/7/94 | 62 | 0.001 |
| 10/7/94 | 186 | 0.003 |
| 12/29/94 | 27 | 0.003 |
| 3/6/95 | 1 | 0.009 |
| 6/14/95 | 165 | 0.001 |
| 9/14/95 | 39 | 0.009 |
| 12/16/95 | 198 | 0.003 |
| 3/28/96 | 40 | 0.01 |
| 6/28/96 | 59 | 0.003 |
| 9/26/96 | 41 | 0.01 |
| 12/30/96 | 25 | 0.006 |
| 3/17/97 | 17 | 0.005 |
| 6/30/97 | 46 | 0.006 |



From: Pacific Environmental
 Group report entitled
 "Soil and Groundwater
 Investigation," dated
 August 11, 1997